



name: <unnamed>
 log: E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May_Baydoun_folder\HANDLS_PAPER65_HCY_COGN\OUTPUT\TABLE3.s
 log type: smcl
 opened on: 28 Nov 2023, 12:34:16

```

1 .
2 . *****
3 .
4 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
5 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
  > c.timew1w3##c.zw1w3HCYTRAJ ///
  > if sample4aobs==1 || HNDID: timew1w3, cov(un)

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( 13, 7.8e+64) = 16.20
Prob > F = 0.0000
  
```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0089155	.0204924	-0.44	0.664	-.0490799 .031249
w1Agecent48	-.0280927	.0060075	-4.68	0.000	-.0398672 -.0163182
c.timew1w3#c.w1Agecent48	-.0022073	.0011653	-1.89	0.058	-.0044912 .0000766
timew1w3	0	(omitted)			
Sex Men	-.3663906	.1133961	-3.23	0.001	-.5886429 -.1441383
Sex#c.timew1w3 Men	.026439	.0220747	1.20	0.231	-.0168266 .0697046
timew1w3	0	(omitted)			
Race AfrAm	-.7878353	.1118783	-7.04	0.000	-1.007113 -.5685579
Race#c.timew1w3 AfrAm	.0030871	.0219231	0.14	0.888	-.0398814 .0460556
timew1w3	0	(omitted)			
PovStat Below	-.5457188	.1160672	-4.70	0.000	-.7732062 -.3182313
PovStat#c.timew1w3 Below	-.0146926	.0221722	-0.66	0.508	-.0581494 .0287641
timew1w3	0	(omitted)			

invmillsmms	.0092421	.0035981	2.57	0.010	.0021899	.0162943
c.timew1w3#c.invmillsmms	-.0018844	.0006371	-2.96	0.003	-.0031332	-.0006356
timew1w3 zw1w3HCYTRAJ	0 (omitted) -.0699518	.0568057	-1.23	0.218	-.181289	.0413854
c.timew1w3#c.zw1w3HCYTRAJ	.005022	.0109035	0.46	0.645	-.0163485	.0263925
_cons	28.63984	.1026269	279.07	0.000	28.43869	28.84098

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.1202482	.	.
sd(_cons)	1.650377	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.200946	.	.

```

6 .
7 .
8 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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( 13, 6.1e+63) = 18.08
Prob > F = 0.0000

```

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.1984385	.1650744	-1.20	0.229	-.5219784 .1251014
w1Agecent48	-.2233106	.0440519	-5.07	0.000	-.3096507 -.1369705
c.timew1w3#c.w1Agecent48	-.0183094	.0093624	-1.96	0.051	-.0366594 .0000407
timew1w3	0 (omitted)				
Sex					
Men	-2.095603	.8316329	-2.52	0.012	-3.725574 -.4656329
Sex#c.timew1w3					
Men	.1564884	.177359	0.88	0.378	-.1911289 .5041057
timew1w3	0 (omitted)				

Race AfrAm	-6.977376	.8204306	-8.50	0.000	-8.585391	-5.369362
Race#c.timew1w3 AfrAm	.0772841	.1762447	0.44	0.661	-.2681493	.4227174
timew1w3	0	(omitted)				
PovStat Below	-4.194188	.8514634	-4.93	0.000	-5.863025	-2.52535
PovStat#c.timew1w3 Below	-.2304449	.1778867	-1.30	0.195	-.5790963	.1182066
timew1w3 invmillsmms	0	(omitted)				
	.0527478	.0263993	2.00	0.046	.0010062	.1044895
c.timew1w3#c.invmillsmms	-.009709	.0050756	-1.91	0.056	-.019657	.000239
timew1w3 zw1w3HCYTRAJ	0	(omitted)				
	-.3572771	.4165468	-0.86	0.391	-1.173694	.4591397
c.timew1w3#c.zw1w3HCYTRAJ	.0173103	.0876253	0.20	0.843	-.1544322	.1890527
_cons	83.74163	.7521558	111.34	0.000	82.26743	85.21582

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.5391848	.	.	.
sd(_cons)	11.17877	.3256442	10.5584	11.8356
corr(timew1w3,_cons)	-1	.	.	.
sd(Residual)	9.964216	.2067349	9.567151	10.37776

9 .
10 .
11 .
12 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> 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	=	0.0000
Largest FMI	=	0.0000

DF adjustment: Large sample

DF:	min	=	1.39e+61
	avg	=	1.39e+61
	max	=	.

Model F test: Equal FMI

F(13, 1.5e+64)	=	102.65
Prob > F	=	0.0000

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.147595	.0705318	-16.27	0.000	-1.285835 -1.009355
w1Agecent48	-.149666	.019501	-7.67	0.000	-.1878872 -.1114447
c.timew1w3#c.w1Agecent48	-.0082829	.0038899	-2.13	0.033	-.015907 -.0006589
timew1w3	0	(omitted)			
Sex					
Men	-2.460685	.3667456	-6.71	0.000	-3.179493 -1.741877
Sex#c.timew1w3					
Men	-.1442972	.0733991	-1.97	0.049	-.2881567 -.0004376
timew1w3	0	(omitted)			
Race					
AfrAm	-2.88765	.3632196	-7.95	0.000	-3.599548 -2.175753
Race#c.timew1w3					
AfrAm	.0924889	.0732339	1.26	0.207	-.0510469 .2360248
timew1w3	0	(omitted)			
PovStat					
Below	-1.725791	.3712175	-4.65	0.000	-2.453364 -.9982178
PovStat#c.timew1w3					
Below	.001097	.0723013	0.02	0.988	-.1406109 .1428049
timew1w3	0	(omitted)			
invmillsmms	.0198091	.0111525	1.78	0.076	-.0020494 .0416675
c.timew1w3#c.invmillsmms	-.000412	.0019928	-0.21	0.836	-.0043179 .0034939
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.3713226	.1842971	2.01	0.044	.010107 .7325382
c.timew1w3#c.zw1w3HCYTRAJ	-.0541827	.0360985	-1.50	0.133	-.1249345 .016569
_cons	28.22086	.3375798	83.60	0.000	27.55922 28.88251

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.2685944	.1412138	.0958466 .7526916
sd(_cons)	4.933375	.1351861	4.675405 5.205579
sd(Residual)	3.760448	.1354274	3.504166 4.035473

```

13 .
14 .
15 .
16 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> 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      =  0.0000
Largest FMI      =  0.0000
DF: min          = 6.66e+62
      avg          = 9.72e+63
      max          =
Model F test: Equal FMI
F( 13, 4.5e+65) =   63.10
Prob > F          =  0.0000

```

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.3671951	.0345419	-10.63	0.000	-.4348959 -.2994943
w1Agecent48	-.0797262	.009162	-8.70	0.000	-.0976834 -.061769
c.timew1w3#c.w1Agecent48	-.0035819	.0019079	-1.88	0.060	-.0073213 .0001575
timew1w3	0	(omitted)			
Sex					
Men	-1.110316	.1721098	-6.45	0.000	-1.447645 -.7729867
Sex#c.timew1w3					
Men	-.0439274	.0357442	-1.23	0.219	-.1139846 .0261299
timew1w3	0	(omitted)			
Race					
AfrAm	-1.590831	.1701057	-9.35	0.000	-1.924232 -1.257429
Race#c.timew1w3					
AfrAm	.0255106	.0357062	0.71	0.475	-.0444722 .0954934
timew1w3	0	(omitted)			
PovStat					
Below	-.5818606	.1736967	-3.35	0.001	-.9222999 -.2414214
PovStat#c.timew1w3					
Below	-.0284535	.0351746	-0.81	0.419	-.0973945 .0404875
timew1w3	0	(omitted)			
invmillsmms	.0093918	.005167	1.82	0.069	-.0007354 .019519
c.timew1w3#c.invmillsmms	-.0003882	.0009394	-0.41	0.679	-.0022294 .0014531
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.270769	.0871364	3.11	0.002	.0999849 .4415532

c.timew1w3#c.zw1w3HCYTRAJ	-.0348021	.017699	-1.97	0.049	-.0694916	-.0001127
_cons	9.023116	.1583347	56.99	0.000	8.712786	9.333447

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0001182	.0192458	3.0e-143	4.6e+134
sd(_cons)	2.199249	.0646228	2.076169	2.329625
sd(Residual)	1.825423	.0445895	1.740088	1.914943

17 .
 18 .
 19 .
 20 . mi estimate: mixed BVRTot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4dobs==1 || HNDID: timew1w3, cov(un)

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	=	0.0000
Largest FMI	=	0.0000

DF adjustment: Large sample

DF:	min	=	6.35e+59
	avg	=	2.33e+61
	max	=	.

Model F test: Equal FMI

F(13, 1.5e+63)	=	42.87
Prob > F	=	0.0000	

BVRTot	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.2457282	.0477072	5.15	0.000	.1522239	.3392326
w1Agecent48	.1334374	.013777	9.69	0.000	.106435	.1604398
c.timew1w3#c.w1Agecent48	.0076617	.0027437	2.79	0.005	.0022842	.0130393
timew1w3	0	(omitted)				
Sex						
Men	-.9896223	.2602955	-3.80	0.000	-1.499792	-.4794526
Sex#c.timew1w3						
Men	.0842863	.0517565	1.63	0.103	-.0171546	.1857272
timew1w3	0	(omitted)				
Race						
AfrAm	1.101305	.2563924	4.30	0.000	.5987856	1.603825
Race#c.timew1w3						
AfrAm	.1644619	.0512328	3.21	0.001	.0640475	.2648764
timew1w3	0	(omitted)				

PovStat Below	1.19291	.2654441	4.49	0.000	.6726491	1.713171
PovStat#c.timew1w3 Below	.0828505	.0521857	1.59	0.112	-.0194316	.1851326
timew1w3 invmillsmms	0 (omitted)	.0082903	-2.14	0.032	-.0339884	-.0014911
c.timew1w3#c.invmillsmms	-.0002582	.0015511	-0.17	0.868	-.0032984	.002782
timew1w3 zw1w3HCYTRAJ	0 (omitted)	.1297867	0.27	0.791	-.2199571	.2887975
c.timew1w3#c.zw1w3HCYTRAJ	.0580371	.0253886	2.29	0.022	.0082765	.1077978
_cons	5.712314	.2350861	24.30	0.000	5.251553	6.173074

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.6883372	.057567	.58427
sd(_cons)	4.27929	.1322227	4.027829
corr(timew1w3,_cons)	-.4229093	.035237	-.4894488
sd(Residual)	1.88389	.2049251	1.522173
			2.331563

```

21 .
22 .
23 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4eobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0000
    Largest FMI = 0.0000
    DF: min = 2.41e+60
          avg = 2.66e+64
          max = .
    F( 13, 1.9e+63) = 13.65
    Prob > F = 0.0000

```

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0511227	.0245695	-2.08	0.037	-.0992781 -.0029674
w1Agecent48	-.0233118	.0063978	-3.64	0.000	-.0358512 -.0107724
c.timew1w3#c.w1Agecent48	-.002793	.001381	-2.02	0.043	-.0054997 -.0000862
timew1w3	0 (omitted)				
Sex					
Men	-.2091897	.1214364	-1.72	0.085	-.4472006 .0288212
Sex#c.timew1w3					
Men	-.0025389	.0261812	-0.10	0.923	-.0538531 .0487754
timew1w3	0 (omitted)				
Race					
AfrAm	-.9591375	.1198226	-8.00	0.000	-1.193985 -.7242895
Race#c.timew1w3					
AfrAm	.0264199	.0259755	1.02	0.309	-.0244912 .077331
timew1w3	0 (omitted)				
PovStat					
Below	-.4113515	.1233264	-3.34	0.001	-.6530667 -.1696362
PovStat#c.timew1w3					
Below	-.0558248	.0260885	-2.14	0.032	-.1069573 -.0046923
timew1w3	0 (omitted)				
invmillsmms	.0017511	.0037198	0.47	0.638	-.0055395 .0090417
c.timew1w3#c.invmillsmms	-.0005331	.0007291	-0.73	0.465	-.0019621 .0008958
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.0477842	.0610726	-0.78	0.434	-.1674843 .0719159
c.timew1w3#c.zw1w3HCYTRAJ	-.0194713	.0130301	-1.49	0.135	-.0450098 .0060671
_cons	7.555512	.1097418	68.85	0.000	7.340422 7.770602

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0887216	.1340212	.0045943 1.713321
sd(_cons)	1.529073	.1067391	1.333549 1.753265
corr(timew1w3,_cons)	.1020765	.6072228	-.8005827 .8630302
sd(Residual)	1.38785	.0999799	1.205098 1.598316

24 .

```
25 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4fobs==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID	Number of groups = 1,414
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0000
	Largest FMI = 0.0000
DF adjustment: Large sample	DF: min = 4.45e+63
	avg = 4.45e+63
	max = .
Model F test: Equal FMI	F(13, 5.9e+65) = 13.43
	Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0593303	.0490739	1.21	0.227	-.0368527 .1555134
w1Agecent48	-.0877574	.0153373	-5.72	0.000	-.1178178 -.0576969
c.timew1w3##c.w1Agecent48	-.0031033	.0027777	-1.12	0.264	-.0085475 .0023409
timew1w3	0	(omitted)			
Sex					
Men	1.069261	.2892408	3.70	0.000	.5023598 1.636163
Sex#c.timew1w3					
Men	.0011494	.0524736	0.02	0.983	-.1016969 .1039958
timew1w3	0	(omitted)			
Race					
AfrAm	-1.982408	.2859009	-6.93	0.000	-2.542763 -1.422052
Race#c.timew1w3					
AfrAm	-.0363168	.052309	-0.69	0.488	-.1388406 .0662069
timew1w3	0	(omitted)			
PovStat					
Below	-1.53457	.2962071	-5.18	0.000	-2.115125 -.9540148
PovStat#c.timew1w3					
Below	.0281445	.0526835	0.53	0.593	-.0751132 .1314023
timew1w3	0	(omitted)			
invmillsmms	.0111519	.0093989	1.19	0.235	-.0072696 .0295734
c.timew1w3##c.invmillsmms	-.0012455	.0015814	-0.79	0.431	-.0043451 .001854
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.156225	.144768	-1.08	0.281	-.4399651 .1275151
c.timew1w3##c.zw1w3HCYTRAJ	-.0343914	.0257034	-1.34	0.181	-.0847692 .0159864

<u>_cons</u>	20.28847	.2611533	77.69	0.000	19.77662	20.80032
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.2603605	.172221	.0712081	.951964
sd(_cons)	4.330824	.1632537	4.022387	4.662912
corr(timew1w3,_cons)	-.1784131	.1237603	-.4060597	.0700826
sd(Residual)	2.923141	.1736207	2.601911	3.28403

26 .

27 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4gobs==1 || HNDID: timew1w3, cov(un)

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	=	.
	Largest FMI	=	.
DF adjustment: Large sample	DF: min	=	0.00
	avg	=	.
	max	=	.
Model F test: Equal FMI	F(13, 3.4e+64)	=	9.30
	Prob > F	=	0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0237065	.0193919	1.22	0.222	-.0143009 .0617139
w1Agecent48	-.01758	.0061626	-2.85	0.004	-.0296584 -.0055016
c.timew1w3#c.w1Agecent48	-.003494	.0010927	-3.20	0.001	-.0056357 -.0013523
timew1w3	0 (omitted)				
Sex Men	.239632	.1162935	2.06	0.039	.011701 .467563
Sex#c.timew1w3 Men	-.0321001	.0207213	-1.55	0.121	-.0727131 .0085129
timew1w3	0 (omitted)				
Race AfrAm	-.7039408	.1147565	-6.13	0.000	-.9288594 -.4790222
Race#c.timew1w3 AfrAm	-.0150859	.0205727	-0.73	0.463	-.0554076 .0252358
timew1w3	0 (omitted)				
PovStat Below	-.4808908	.1188613	-4.05	0.000	-.7138547 -.2479268

PovStat#c.timew1w3						
Below	-.0226124	.0207073	-1.09	0.275	-.063198	.0179731
timew1w3	0 (omitted)					
invmillsmms	.0058513	.0037573	1.56	0.119	-.0015128	.0132155
c.timew1w3#c.invmillsmms	-.0005079	.0006126	-0.83	0.407	-.0017085	.0006928
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	-.0777209	.0580552	-1.34	0.181	-.1915071	.0360652
c.timew1w3#c.zw1w3HCYTRAJ	-.0142368	.0101064	-1.41	0.159	-.034045	.0055713
_cons	7.814824	.1052745	74.23	0.000	7.60849	8.021159

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0151811	.	.
sd(_cons)	1.733755	.	.
corr(timew1w3,_cons)	.9999988	.	.
sd(Residual)	1.189288	.	.

28 .

29 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 || HNDID: timew1w3, cov(un)

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
DF adjustment: Large sample	Average RVI	= .
	Largest FMI	= .
	DF:	min = 0.00
		avg = .
		max = .
Model F test: Equal FMI	F(13, 7.0e+65)	= 14.34
	Prob > F	= 0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0048817	.020186	0.24	0.809	-.0346821 .0444456
w1Agecent48	-.0237397	.0061035	-3.89	0.000	-.0357023 -.0117771
c.timew1w3#c.w1Agecent48	-.0011904	.0011391	-1.05	0.296	-.003423 .0010422
timew1w3	0 (omitted)				
Sex					
Men	-.0423476	.1154026	-0.37	0.714	-.2685326 .1838374
Sex#c.timew1w3					

Men		-.016152	.0216425	-0.75	0.455	-.0585705	.0262666
timew1w3		0	(omitted)				
Race							
AfrAm		-1.052663	.1137259	-9.26	0.000	-1.275562	-.8297642
Race#c.timew1w3							
AfrAm		-.0136886	.0214589	-0.64	0.524	-.0557472	.02837
timew1w3		0	(omitted)				
PovStat							
Below		-.5595642	.1178598	-4.75	0.000	-.7905651	-.3285633
PovStat#c.timew1w3							
Below		.0016333	.0215926	0.08	0.940	-.0406875	.043954
timew1w3		0	(omitted)				
invmillsmms		.0062814	.0037193	1.69	0.091	-.0010083	.0135711
c.timew1w3#c.invmillsmms		-.0004797	.0006382	-0.75	0.452	-.0017306	.0007712
timew1w3		0	(omitted)				
zw1w3HCYTRAJ		-.1106846	.057554	-1.92	0.054	-.2234884	.0021192
c.timew1w3#c.zw1w3HCYTRAJ		.0038291	.0105242	0.36	0.716	-.0167979	.0244561
_cons		6.478461	.1042185	62.16	0.000	6.274197	6.682726

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.008945	.	.
sd(_cons)	1.666083	.	.
corr(timew1w3,_cons)	-.9999997	.	.
sd(Residual)	1.240488	.	.

30 .

31 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4iobs==1 || HNDID: timew1w3, cov(un)

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
	Average RVI =	0.0000
	Largest FMI =	0.0000
DF adjustment: Large sample	DF: min =	9.57e+63
	avg =	1.27e+65
	max =	.
Model F test: Equal FMI	F(13, 8.8e+67) =	6.68
	Prob > F =	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0204503	.0155462	-1.32	0.188	-.0509204 .0100197
w1Agecent48	-.0062621	.0034713	-1.80	0.071	-.0130658 .0005415
c.timew1w3#c.w1Agecent48	-.0017933	.0008824	-2.03	0.042	-.0035227 -.0000639
timew1w3	0	(omitted)			
Sex					
Men	.1138844	.0655844	1.74	0.082	-.0146587 .2424275
Sex#c.timew1w3					
Men	.006263	.0166853	0.38	0.707	-.0264395 .0389656
timew1w3	0	(omitted)			
Race					
AfrAm	-.404707	.0646567	-6.26	0.000	-.5314318 -.2779822
Race#c.timew1w3					
AfrAm	.0170896	.0165412	1.03	0.302	-.0153305 .0495098
timew1w3	0	(omitted)			
PovStat					
Below	-.0695435	.0672358	-1.03	0.301	-.2013233 .0622363
PovStat#c.timew1w3					
Below	-.0112346	.0167177	-0.67	0.502	-.0440008 .0215315
timew1w3	0	(omitted)			
invmillsmms	.0003227	.002143	0.15	0.880	-.0038775 .004523
c.timew1w3#c.invmillsmms	-.0001389	.0004999	-0.28	0.781	-.0011187 .0008408
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.0547247	.0328113	-1.67	0.095	-.1190337 .0095843
c.timew1w3#c.zw1w3HCYTRAJ	-.0084484	.0081074	-1.04	0.297	-.0243386 .0074417
_cons	9.025244	.0590774	152.77	0.000	8.909455 9.141034

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0721205	.0521395	.0174857 .2974639
sd(_cons)	.715321	.0672639	.5949217 .8600867
corr(timew1w3,_cons)	-.2118196	.227106	-.5922372 .2458148
sd(Residual)	.9486385	.0461046	.8624455 1.043446

32 .
 33 . mi estimate: mixed LnTrailsAtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Pc
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > 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 =	0.0000
	Largest FMI =	0.0000
DF adjustment: Large sample	DF: min =	2.18e+65
	avg =	2.18e+65
	max =	.
Model F test: Equal FMI	F(13, 3.0e+67) =	28.86
	Prob > F =	0.0000

LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0017348	.0040572	0.43	0.669	-.0062172 .0096867
w1Agecent48	.011453	.0010551	10.86	0.000	.0093851 .0135209
c.timew1w3#c.w1Agecent48	.0006551	.0002319	2.83	0.005	.0002006 .0011096
timew1w3	0	(omitted)			
Sex					
Men	.0915976	.0199363	4.59	0.000	.0525233 .130672
Sex#c.timew1w3					
Men	.0008259	.0043925	0.19	0.851	-.0077832 .009435
timew1w3	0	(omitted)			
Race					
AfrAm	.1851208	.0195885	9.45	0.000	.1467281 .2235134
Race#c.timew1w3					
AfrAm	.0002556	.0043352	0.06	0.953	-.0082413 .0087526
timew1w3	0	(omitted)			
PovStat					
Below	.0889879	.0204099	4.36	0.000	.0489852 .1289907
PovStat#c.timew1w3					
Below	.0045307	.0043957	1.03	0.303	-.0040848 .0131462
timew1w3	0	(omitted)			
invmillsmms	.0002782	.0006373	0.44	0.662	-.0009709 .0015272
c.timew1w3#c.invmillsmms	-.0001386	.0001287	-1.08	0.281	-.0003908 .0001136
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.031947	.0099699	3.20	0.001	.0124063 .0514877
c.timew1w3#c.zw1w3HCYTRAJ	-.0008441	.0021371	-0.39	0.693	-.0050327 .0033445

<u>_cons</u>	3.274355	.0178515	183.42	0.000	3.239367	3.309343
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0252541	.0055649	.0163971	.0388955
sd(_cons)	.26504	.0078791	.2500385	.2809415
sd(Residual)	.2357678	.0078394	.2208929	.2516444

34 .

35 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStatBelow
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4kobs==1 || HNDID: timew1w3, cov(un)

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
DF adjustment: Large sample	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	<u>DF</u> : min	=	1.94e+60
	avg	=	2.28e+64
	max	=	.
Model F test: Equal FMI	F(13, 6.3e+65)	=	33.33
	Prob > F	=	0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0033785	.0060488	0.56	0.576	-.0084768 .0152339
w1Agecent48	.0181792	.0018446	9.86	0.000	.0145639 .0217945
c.timew1w3##c.w1Agecent48	.0005869	.0003498	1.68	0.093	-.0000988 .0012725
timew1w3	0 (omitted)				
Sex Men	.0563686	.0348364	1.62	0.106	-.0119094 .1246466
Sex#c.timew1w3 Men	-.0035296	.0066239	-0.53	0.594	-.0165123 .0094531
timew1w3	0 (omitted)				
Race AfrAm	.4038852	.0342496	11.79	0.000	.3367572 .4710131
Race#c.timew1w3 AfrAm	.0015492	.0065346	0.24	0.813	-.0112584 .0143568
timew1w3	0 (omitted)				
PovStat Below	.2371333	.0356681	6.65	0.000	.1672252 .3070414

PovStat#c.timew1w3 Below	.0045072	.0067042	0.67	0.501	-.0086329	.0176472
timew1w3 invmillsmms	0 (omitted) -.0026074	.0011118	-2.35	0.019	-.0047865	-.0004283
c.timew1w3#c.invmillsmms	-.0004794	.0004898	-0.98	0.328	-.0014394	.0004805
timew1w3 zw1w3HCYTRAJ	0 (omitted) .0291862	.0174745	1.67	0.095	-.0050632	.0634356
c.timew1w3#c.zw1w3HCYTRAJ	.0066391	.0032365	2.05	0.040	.0002957	.0129825
_cons	4.229389	.0312409	135.38	0.000	4.168158	4.29062

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0670773	.0114885	.04795	.0938345
sd(_cons)	.547163	.0199259	.5094702	.5876445
corr(timew1w3,_cons)	-.4301021	.0462651	-.5162998	-.3352775
sd(Residual)	.2889346	.0278188	.2392463	.3489425

```

36 .
37 .
38 . save, replace
    file finaldata_imputed_FINAL.dta saved

39 .
40 .
41 .
42 . //MODEL 2: MODEL 1 + BODY MASS INDEX///
43 .
44 . 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
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)
convergence not achieved
model did not converge on m=5
r(498);

end of do-file

r(498);

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

```

```

46 .
47 .
48 . //MODEL 2: MODEL 1 + BODY MASS INDEX///
49 .
50 . 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 ///
> 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( 27,44557.7) = 38.80
Prob > F = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0878507	.0490695	1.79	0.073	-.0083453	.1840468
w1Agecent48	-.0175241	.0048012	-3.65	0.000	-.0269357	-.0081126
c.timew1w3#c.w1Agecent48	-.0032051	.001166	-2.75	0.006	-.0054908	-.0009195
timew1w3	0 (omitted)					
Sex						
Men	-.3478298	.0898966	-3.87	0.000	-.5240248	-.1716348
Sex#c.timew1w3						
Men	.0219632	.0220944	0.99	0.320	-.0213424	.0652688
timew1w3	0 (omitted)					
Race						
AfrAm	-.2255975	.0914634	-2.47	0.014	-.4048729	-.046322
Race#c.timew1w3						
AfrAm	-.0189408	.0226963	-0.83	0.404	-.0634258	.0255442
timew1w3	0 (omitted)					
PovStat						
Below	-.0586228	.0936251	-0.63	0.531	-.242125	.1248795
PovStat#c.timew1w3						
Below	-.0314108	.0225604	-1.39	0.164	-.0756283	.0128067
timew1w3	0 (omitted)					
w1edubr						
2	.5114952	.186532	2.74	0.006	.1458355	.8771549
3	.6885032	.2043504	3.37	0.001	.2878073	1.089199

w1edubr#c.timew1w3						
2	-.0661001	.046745	-1.41	0.157	-.1577359	.0255358
3	-.063399	.0505935	-1.25	0.210	-.1626002	.0358022
timew1w3	0	(omitted)				
w1WRATtotalcent42	.1464331	.0063707	22.99	0.000	.1339452	.158921
c.timew1w3#c.w1WRATtotalcent42	-.0069756	.0017253	-4.04	0.000	-.010358	-.0035933
timew1w3	0	(omitted)				
1.w1smoke	.0104729	.1015776	0.10	0.918	-.1893281	.2102738
w1smoke#c.timew1w3						
1	-.0515008	.0245009	-2.10	0.036	-.0995241	-.0034776
timew1w3	0	(omitted)				
1.w1currdrugs	-.0818971	.1325707	-0.62	0.539	-.3460357	.1822415
w1currdrugs#c.timew1w3						
1	.0164978	.030423	0.54	0.588	-.0433377	.0763332
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	-.003733	.0045733	-0.82	0.418	-.012933	.0054671
c.timew1w3#c.w1hei2010_total_scorecent43	.0003642	.0011813	0.31	0.759	-.0020021	.0027305
timew1w3	0	(omitted)				
w1BMIcontent30	-.0055506	.0060098	-0.92	0.356	-.0173298	.0062286
c.timew1w3#c.w1BMIcontent30	-.0002962	.0014497	-0.20	0.838	-.0031376	.0025452
timew1w3	0	(omitted)				
invmillsmms	.0076882	.0027864	2.76	0.006	.002227	.0131494
c.timew1w3#c.invmillsmms	-.0018672	.0006103	-3.06	0.002	-.0030633	-.0006711
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.0101059	.0439901	-0.23	0.818	-.0963251	.0761132
c.timew1w3#c.zw1w3HCYTRAJ	.0038751	.0106362	0.36	0.716	-.0169716	.0247218
_cons	27.47333	.1941706	141.49	0.000	27.09271	27.85395

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	3.48e-07
sd(_cons)	1.003315	.0428585	.9227279	1.09094	
sd(Residual)	1.213612	.0265593	1.162657	1.2668	

```

51 .
52 .
53 . 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 ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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( 27,55651.9) = 34.16
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.3567044	.3923589	0.91	0.363	.4123728	1.125782
w1Agecent48	-.1549994	.0390942	-3.96	0.000	-.2316311	-.0783676
c.timew1w3#c.w1Agecent48	-.0239523	.0094387	-2.54	0.011	-.0424544	-.0054502
timew1w3	0 (omitted)					
Sex						
Men	-1.939501	.7329376	-2.65	0.008	-3.376037	-.5029642
Sex#c.timew1w3						
Men	.1193632	.1788165	0.67	0.504	-.2311275	.4698538
timew1w3	0 (omitted)					
Race						
AfrAm	-3.330674	.7437025	-4.48	0.000	-4.788334	-1.873015
Race#c.timew1w3						
AfrAm	.0086066	.1830364	0.05	0.962	-.3501436	.3673568
timew1w3	0 (omitted)					
PovStat						
Below	-.6914694	.7635963	-0.91	0.365	-2.188093	.8051546
PovStat#c.timew1w3						
Below	-.2612486	.1825079	-1.43	0.152	-.6189582	.096461
timew1w3	0 (omitted)					
w1edubr						
2	3.813809	1.512128	2.52	0.012	.8499758	6.777642
3	5.914694	1.654264	3.58	0.000	2.671891	9.157497
w1edubr#c.timew1w3						
2	-.5011322	.3736908	-1.34	0.180	-1.233601	.2313366

	3	- .3880518	.4055291	-0.96	0.339	-1.183055	.4069517
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		.9571645	.0518046	18.48	0.000	.8556237	1.058705
c.timew1w3#c.w1WRATTtotalcent42		-.0330602	.0138181	-2.39	0.017	-.0601506	-.0059697
	timew1w3	0	(omitted)				
1.w1smoke		-.5965458	.8124203	-0.73	0.463	-2.190884	.9977921
	w1smoke#c.timew1w3	1					
		-.2644604	.1965209	-1.35	0.178	-.6496349	.1207141
	timew1w3	0	(omitted)				
1.w1currdrugs		-.0772786	1.047379	-0.07	0.941	-2.149194	1.994636
	w1currdrugs#c.timew1w3	1					
		.0694567	.2499405	0.28	0.781	-.4232528	.5621662
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0198352	.0356018	-0.56	0.579	-.0905743	.050904
c.timew1w3#c.w1hei2010_total_scorecent43		.0055081	.009748	0.57	0.575	-.0141377	.0251538
	timew1w3	0	(omitted)				
w1BMICent30		-.0465062	.048809	-0.95	0.341	-.1421701	.0491578
c.timew1w3#c.w1BMICent30		-.0025963	.0117299	-0.22	0.825	-.0255872	.0203946
	timew1w3	0	(omitted)				
invmillsmms		.0428188	.0227186	1.88	0.059	-.0017088	.0873465
c.timew1w3#c.invmillsmms		-.0099899	.004979	-2.01	0.045	-.0197486	-.0002311
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0629427	.3584964	0.18	0.861	-.6396975	.7655828
c.timew1w3#c.zw1w3HCYTRAJ		.0082186	.0858365	0.10	0.924	-.1600183	.1764555
	_cons	75.40754	1.579647	47.74	0.000	72.31124	78.50384

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.3893237	.	.
sd(_cons)	8.282933	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	9.81273	.	.

```

54 .
55 .
56 .
57 . 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 ///
> 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 = 0.0426
    Largest FMI = 0.4219
    DF: min = 27.51
        avg = 443,161.41
        max = 5774935.12
    F( 27,47549.0) = 58.05
    Prob > F = 0.0000

```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.157345	.1541105	-7.51	0.000	-1.459404 -.855286
w1Agecent48		-.1471834	.0186121	-7.91	0.000	-.1836648 -.1107019
c.timew1w3#c.w1Agecent48		-.0066859	.0039819	-1.68	0.093	-.0144903 .0011186
timew1w3		0	(omitted)			
Sex						
Men		-2.176164	.3495597	-6.23	0.000	-2.861289 -1.491039
Sex#c.timew1w3						
Men		-.1796817	.0753779	-2.38	0.017	-.3274203 -.031943
timew1w3		0	(omitted)			
Race						
AfrAm		-1.99177	.3570073	-5.58	0.000	-2.691559 -1.291981
Race#c.timew1w3						
AfrAm		.0938311	.077379	1.21	0.225	-.0578581 .2455203
timew1w3		0	(omitted)			
PovStat						
Below		-.3635289	.3619446	-1.00	0.315	-1.072933 .3458755
PovStat#c.timew1w3						
Below		-.0483202	.0761396	-0.63	0.526	-.1975526 .1009122
timew1w3		0	(omitted)			
w1edubr						
2		-.3849317	.7073813	-0.54	0.586	-1.77218 1.002317
3		1.915618	.7713425	2.48	0.013	.4030567 3.42818
w1edubr#c.timew1w3						

	2	.0932389	.1452256	0.64	0.521	-.1914244	.3779023
	3	-.0582327	.1597002	-0.36	0.715	-.3712535	.2547881
timew1w3		0 (omitted)					
w1WRATTtotalcent42		.2391559	.0243299	9.83	0.000	.1914691	.2868427
c.timew1w3#c.w1WRATTtotalcent42		-.0050025	.0051553	-0.97	0.332	-.0151073	.0051022
timew1w3		0 (omitted)					
1.w1smoke		-.0327308	.3820007	-0.09	0.932	-.7839734	.7185118
w1smoke#c.timew1w3							
1		-.0411462	.0887965	-0.46	0.644	-.2163987	.1341063
timew1w3		0 (omitted)					
1.w1currdrugs		-.5265555	.4484916	-1.17	0.240	-1.406062	.3529512
w1currdrugs#c.timew1w3							
1		.0937484	.1003132	0.93	0.350	-.1032202	.290717
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		.0271695	.018764	1.45	0.159	-.0112978	.0656369
c.timew1w3#c.w1hei2010_total_scorecent43		-.0028783	.0039479	-0.73	0.468	-.0107181	.0049615
timew1w3		0 (omitted)					
w1BMIcon30		-.0018041	.0231925	-0.08	0.938	-.0472612	.043653
c.timew1w3#c.w1BMIcon30		-.0029116	.0049129	-0.59	0.553	-.0125407	.0067174
timew1w3		0 (omitted)					
invmillsmms		.0165035	.0103225	1.60	0.110	-.0037281	.0367352
c.timew1w3#c.invmillsmms		-.0003918	.0020002	-0.20	0.845	-.0043121	.0035285
timew1w3		0 (omitted)					
zw1w3HCYTRAJ		.47845	.1719551	2.78	0.005	.1414219	.8154781
c.timew1w3#c.zw1w3HCYTRAJ		-.0528963	.0361544	-1.46	0.143	-.1237577	.0179651
_cons		26.55699	.7366811	36.05	0.000	25.11283	28.00115

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.3715403	.0967685	.2229946	.6190382	
sd(_cons)	4.389884	.1303613	4.141673	4.65297	
sd(Residual)	3.653682	.130922	3.40588	3.919513	

```

58 .
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60 .
61 . 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 ///
> 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 = 0.0734
    Largest FMI = 0.3369
    DF: min = 42.59
        avg = 400,439.31
        max = 7043642.44
    F( 27,16920.0) = 35.98
    Prob > F = 0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.3452376	.0744461	-4.64	0.000	-.4911532 -.1993219
w1Agecent48		-.0789566	.0089155	-8.86	0.000	-.0964311 -.0614822
c.timew1w3#c.w1Agecent48		-.0035762	.0019638	-1.82	0.069	-.0074255 .0002731
timew1w3		0	(omitted)			
Sex						
Men		-.9479481	.167952	-5.64	0.000	-1.277129 -.6187671
Sex#c.timew1w3						
Men		-.0461828	.0367382	-1.26	0.209	-.1181898 .0258242
timew1w3		0	(omitted)			
Race						
AfrAm		-1.210025	.1712047	-7.07	0.000	-1.545629 -.87442
Race#c.timew1w3						
AfrAm		.0226493	.0374754	0.60	0.546	-.0508063 .0961049
timew1w3		0	(omitted)			
PovStat						
Below		-.0810652	.1744595	-0.46	0.642	-.4230238 .2608935
PovStat#c.timew1w3						
Below		-.0336487	.0370027	-0.91	0.363	-.1061732 .0388759
timew1w3		0	(omitted)			
w1edubr						
2		-.1631069	.3395858	-0.48	0.631	-.8289117 .502698
3		.5489642	.3687212	1.49	0.137	-.1738105 1.271739
w1edubr#c.timew1w3						

		2	- .0029403	.0701353	-0.04	0.967	-.1404169	.1345362
		3	.005484	.0772565	0.07	0.943	-.1459414	.1569094
	timew1w3		0	(omitted)				
	w1WRATTtotalcent42		.1012685	.0117852	8.59	0.000	.0781667	.1243703
c.timew1w3#c.w1WRATTtotalcent42			-.0040955	.0024943	-1.64	0.101	-.0089843	.0007932
	timew1w3		0	(omitted)				
	1.w1smoke		-.0076497	.1977884	-0.04	0.969	-.4009405	.385641
w1smoke#c.timew1w3			-.0248902	.0457578	-0.54	0.588	-.1161249	.0663446
	timew1w3		0	(omitted)				
	1.w1currdrugs		-.2364403	.2304412	-1.03	0.306	-.6912458	.2183652
w1currdrugs#c.timew1w3			-.0267263	.0518437	-0.52	0.607	-.1294089	.0759563
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			.0088015	.0086497	1.02	0.315	-.0086473	.0262502
c.timew1w3#c.w1hei2010_total_scorecent43			-.0003446	.0019681	-0.18	0.861	-.0042641	.0035749
	timew1w3		0	(omitted)				
	w1BMIcon30		.020576	.0111722	1.84	0.066	-.0013223	.0424743
c.timew1w3#c.w1BMIcon30			-.0019921	.0024208	-0.82	0.411	-.0067371	.0027529
	timew1w3		0	(omitted)				
	invmillsmms		.0073681	.0048983	1.50	0.133	-.0022323	.0169686
c.timew1w3#c.invmillsmms			-.0004574	.0009433	-0.48	0.628	-.0023061	.0013914
	timew1w3		0	(omitted)				
zw1w3HCYTRAJ			.3143505	.0831806	3.78	0.000	.1513186	.4773823
c.timew1w3#c.zw1w3HCYTRAJ			-.0341967	.0177171	-1.93	0.054	-.0689216	.0005283
	_cons		8.412034	.3547876	23.71	0.000	7.71656	9.107508

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0781106	.1057816	.0054942	1.110481
sd(_cons)	2.001924	.0636931	1.880899	2.130736
sd(Residual)	1.80461	.0614262	1.688145	1.92911

```

62 .
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64 .
65 . 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 ///
> if sample4dobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0372
    Largest FMI = 0.2991
    DF: min = 53.50
        avg = 1064289.57
        max = 1.73e+07
    F( 27, 58046.2) = 31.27
    Prob > F = 0.0000

```

	BVRTot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4191658	.1125792	3.72	0.000	.1985132	.6398185
w1Agecent48	.1215343	.013424	9.05	0.000	.0952223	.1478462
c.timew1w3#c.w1Agecent48	.0086819	.0028214	3.08	0.002	.0031518	.014212
timew1w3	0 (omitted)					
Sex Men	-1.046197	.2528978	-4.14	0.000	-1.541875	-.5505196
Sex#c.timew1w3 Men	.0557881	.052894	1.05	0.292	-.0478828	.1594589
timew1w3	0 (omitted)					
Race AfrAm	.5043353	.2547889	1.98	0.048	.0049561	1.003714
Race#c.timew1w3 AfrAm	.1400172	.0539071	2.60	0.009	.0343597	.2456747
timew1w3	0 (omitted)					
PovStat Below	.3497821	.2634672	1.33	0.184	-.1666076	.8661718
PovStat#c.timew1w3 Below	.0509537	.0545051	0.93	0.350	-.0558743	.1577817
timew1w3	0 (omitted)					
w1edubr						
2	-.661041	.5208609	-1.27	0.204	-1.682095	.3600126
3	-1.600425	.5707635	-2.80	0.005	-2.719538	-.4813108
w1edubr#c.timew1w3						

	2	- .1565218	.1073284	-1.46	0.145	-.3668844	.0538409
	3	-.1251062	.1169611	-1.07	0.285	-.3543469	.1041345
	timew1w3	0	(omitted)				
	w1WRATTtotalcent42	-.1601475	.0179222	-8.94	0.000	-.1952866	-.1250084
c.timew1w3#c.w1WRATTtotalcent42		-.0041796	.0037088	-1.13	0.260	-.0114488	.0030897
	timew1w3	0	(omitted)				
	1.w1smoke	.4147363	.2801474	1.48	0.140	-.1361432	.9656157
	w1smoke#c.timew1w3						
	1	-.0430889	.0591395	-0.73	0.466	-.1590102	.0728325
	timew1w3	0	(omitted)				
	1.w1currdrugs	-.274769	.3803027	-0.72	0.473	-1.037392	.4878542
	w1currdrugs#c.timew1w3						
	1	.1274856	.0727342	1.75	0.080	-.0152769	.2702481
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0066889	.0114445	-0.58	0.560	-.0293449	.0159672
c.timew1w3#c.w1hei2010_total_scorecent43		-.0034524	.0026681	-1.29	0.198	-.008726	.0018213
	timew1w3	0	(omitted)				
	w1BMIcon30	.0104837	.0168239	0.62	0.533	-.0224914	.0434588
c.timew1w3#c.w1BMIcon30		-.0046835	.0035394	-1.32	0.186	-.0116207	.0022537
	timew1w3	0	(omitted)				
	invmillsmms	-.0162605	.007856	-2.07	0.038	-.031658	-.000863
c.timew1w3#c.invmillsmms		.0000586	.001547	0.04	0.970	-.0029735	.0030906
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0509036	.1232219	-0.41	0.680	-.2924144	.1906072
c.timew1w3#c.zw1w3HCYTRAJ		.0572153	.025344	2.26	0.024	.0075419	.1068888
	_cons	7.362116	.5443545	13.52	0.000	6.294941	8.42929

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.6655822	.0596098	.5584245	.7933026	
sd(_cons)	3.957795	.1363816	3.699315	4.234336	
corr(timew1w3,_cons)	-.47249	.0340065	-.5363939	-.4031992	
sd(Residual)	1.952963	.2008649	1.59641	2.38915	

```

66 .
67 .
68 . mi estimate: mixed Attention 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 ///
> if sample4eobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0218
    Largest FMI = 0.2001
    DF: min = 115.17
        avg = 1.74e+07
        max = 4.73e+08
    F( 27,161452.6) = 14.89
    Prob > F = 0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	- .0409707	.0574899	-0.71	0.476	-.1536563 .071715
	w1Agecent48	- .0150716	.0062727	-2.40	0.016	-.027366 -.0027772
	c.timew1w3#c.w1Agecent48	- .0028295	.0014136	-2.00	0.045	-.0056001 -.000059
	timew1w3	0	(omitted)			
	Sex					
	Men	- .2848624	.1194247	-2.39	0.017	-.5189314 -.0507934
	Sex#c.timew1w3					
	Men	.0020135	.0268211	0.08	0.940	-.050555 .0545821
	timew1w3	0	(omitted)			
	Race					
	AfrAm	- .6760319	.1209774	-5.59	0.000	-.9131436 -.4389201
	Race#c.timew1w3					
	AfrAm	.0407437	.0273593	1.49	0.136	-.0128795 .0943669
	timew1w3	0	(omitted)			
	PovStat					
	Below	- .116107	.123797	-0.94	0.348	-.3587451 .1265311
	PovStat#c.timew1w3					
	Below	- .0449497	.0274583	-1.64	0.102	-.098767 .0088676
	timew1w3	0	(omitted)			
	w1edubr					
	2	.3551275	.2464736	1.44	0.150	-.1279672 .8382222
	3	.495109	.2682041	1.85	0.065	-.0306063 1.020824
	w1edubr#c.timew1w3					
	2	- .0057718	.054861	-0.11	0.916	-.1133067 .1017631

	3	- .0254891	.0594266	-0.43	0.668	-.1419673	.0909891
	timew1w3 w1WRATTtotalcent42	0 .0755829	(omitted) .0084193	8.98	0.000	.059081	.0920848
c.timew1w3#c.w1WRATTtotalcent42		.0033337	.0019061	1.75	0.080	-.0004021	.0070695
	timew1w3 1.w1smoke	0 -.1730073	(omitted) .1388022	-1.25	0.215	-.4474607	.101446
	w1smoke#c.timew1w3 1	-.0214815	.0300455	-0.71	0.475	-.0803857	.0374226
	timew1w3 1.w1currdrugs	0 .2894137	(omitted) .1542774	1.88	0.061	-.0130366	.5918641
w1currdrugs#c.timew1w3 1		-.0286903	.0353105	-0.81	0.417	-.0979034	.0405228
	timew1w3 w1hei2010_total_scorecent43	0 -.0043334	(omitted) .0055993	-0.77	0.441	-.0154245	.0067576
c.timew1w3#c.w1hei2010_total_scorecent43		.0001174	.0012325	0.10	0.924	-.0022983	.0025332
	timew1w3 w1BMIcontent30	0 -.0242712	(omitted) .0080436	-3.02	0.003	-.0400373	-.0085051
c.timew1w3#c.w1BMIcontent30		.0000269	.0017856	0.02	0.988	-.0034729	.0035267
	timew1w3 invmillsmms	0 .0016977	(omitted) .0035519	0.48	0.633	-.0052638	.0086592
c.timew1w3#c.invmillsmms		-.0006256	.0007308	-0.86	0.392	-.002058	.0008068
	timew1w3 zw1w3HCYTRAJ	0 -.0150051	(omitted) .058579	-0.26	0.798	-.1298179	.0998077
c.timew1w3#c.zw1w3HCYTRAJ		-.0192493	.0130228	-1.48	0.139	-.0447735	.0062748
	_cons	6.886834	.2564912	26.85	0.000	6.384106	7.389562

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1277868	.0897695	.0322494	.5063499
sd(_cons)	1.426111	.107263	1.23064	1.652629
corr(timew1w3,_cons)	-.099093	.2559679	-.5413641	.3861307
sd(Residual)	1.348211	.0977659	1.169587	1.554114

69 .

70 . 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 ///
 > if sample4fobs==1 || HNDID: timew1w3, cov(un)

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	=	0.0555
Largest FMI	=	0.2970
DF: min	=	54.25
avg	=	8528624.92
max	=	2.61e+08
Model F test: Equal FMI	F(27, 26740.0)	= 13.76
	Prob > F	= 0.0000

DF adjustment: Large sample

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0269158	.1157564	-0.23	0.816	-.2538929 .2000613
w1Agecent48	-.0834946	.0149437	-5.59	0.000	-.1127847 -.0542046
c.timew1w3#c.w1Agecent48	-.0023287	.0028599	-0.81	0.416	-.007934 .0032766
timew1w3	0 (omitted)				
Sex					
Men	1.27121	.2812351	4.52	0.000	.7199954 1.822424
Sex#c.timew1w3					
Men	-.0041638	.0540084	-0.08	0.939	-.1100187 .1016911
timew1w3	0 (omitted)				
Race					
AfrAm	-1.316858	.2854309	-4.61	0.000	-1.876297 -.75742
Race#c.timew1w3					
AfrAm	-.028782	.0553528	-0.52	0.603	-.1372752 .0797113
timew1w3	0 (omitted)				
PovStat					
Below	-.5841445	.2949377	-1.98	0.048	-1.162229 -.0060604
PovStat#c.timew1w3					
Below	.021495	.0556096	0.39	0.699	-.087499 .1304891
timew1w3	0 (omitted)				
w1edubr					
2	-.3541606	.5785682	-0.61	0.540	-1.48819 .7798692
3	.9130349	.6292814	1.45	0.147	-.3203963 2.146466
w1edubr#c.timew1w3					
2	.0936353	.1106082	0.85	0.397	-.123313 .3105836
3	.0549525	.1214899	0.45	0.651	-.1833604 .2932654

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.161459	.0195749	8.25	0.000	.1230925	.1998255
c.timew1w3#c.w1WRATtotalcent42		.0023304	.0037598	0.62	0.535	-.0050388	.0096997
	timew1w3	0	(omitted)				
	1.w1smoke	-.5372421	.3317038	-1.62	0.110	-1.198744	.12426
w1smoke#c.timew1w3		.0330971	.0623443	0.53	0.596	-.0893414	.1555356
	timew1w3	0	(omitted)				
	1.w1currdrugs	.280771	.3910798	0.72	0.474	-.4941759	1.055718
w1currdrugs#c.timew1w3		-.0226831	.0718816	-0.32	0.752	-.1636217	.1182554
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0262009	.0131885	1.99	0.052	-.0002378	.0526395
c.timew1w3#c.w1hei2010_total_scorecent43		-.0029645	.0025467	-1.16	0.245	-.0079586	.0020296
	timew1w3	0	(omitted)				
	w1BMICent30	.0161271	.0190663	0.85	0.398	-.0212598	.053514
c.timew1w3#c.w1BMICent30		.0025979	.0035936	0.72	0.470	-.0044458	.0096416
	timew1w3	0	(omitted)				
	invmillsmms	.0086337	.0089281	0.97	0.334	-.0088651	.0261325
c.timew1w3#c.invmillsmms		-.0013738	.0015854	-0.87	0.386	-.0044811	.0017335
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0464581	.1376613	-0.34	0.736	-.3162698	.2233536
c.timew1w3#c.zw1w3HCYTRAJ		-.0344587	.0257894	-1.34	0.181	-.085005	.0160876
	_cons	19.38166	.6080856	31.87	0.000	18.1895	20.57383

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.2582994	.175008	.0684532	.9746592	
sd(_cons)	3.980995	.1684354	3.664184	4.325197	
corr(timew1w3,_cons)	-.173349	.1383398	-.4257218	.1040471	
sd(Residual)	2.924522	.1735759	2.603356	3.285309	

71 .

```
72 . 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.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID	Number of imputations = 5
	Number of obs = 2,686
	Number of groups = 1,412
	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(27,16531.1) = 17.83
	Prob > F = 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.036278	.0450257	0.81	0.420	-.0519725 .1245286
w1Agecent48	-.0081956	.0057165	-1.43	0.152	-.0193999 .0030086
c.timew1w3#c.w1Agecent48	-.0034529	.001129	-3.06	0.002	-.0056656 -.0012401
timew1w3	0 (omitted)				
Sex					
Men	.1993852	.1082275	1.84	0.065	-.0127417 .4115121
Sex#c.timew1w3					
Men	-.0351765	.0212958	-1.65	0.099	-.0769158 .0065627
timew1w3	0 (omitted)				
Race					
AfrAm	-.2818644	.1103658	-2.55	0.011	-.4982176 -.0655112
Race#c.timew1w3					
AfrAm	-.011943	.0216989	-0.55	0.582	-.0544725 .0305864
timew1w3	0 (omitted)				
PovStat					
Below	-.1228413	.1133452	-1.08	0.278	-.3450188 .0993361
PovStat#c.timew1w3					
Below	-.0214168	.0218702	-0.98	0.327	-.0642824 .0214488
timew1w3	0 (omitted)				
w1edubr					
2	-.102095	.2228499	-0.46	0.647	-.5388839 .3346938
3	.1959095	.2425111	0.81	0.419	-.2794367 .6712556
w1edubr#c.timew1w3					
2	.0014095	.042491	0.03	0.974	-.0818714 .0846905
3	-.0196134	.0466526	-0.42	0.674	-.1110534 .0718265

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1126895	.0075804	14.87	0.000	.0978308	.1275483
c.timew1w3#c.w1WRATtotalcent42		.0001708	.0014848	0.11	0.908	-.0027395	.003081
	timew1w3	0	(omitted)				
	1.w1smoke	.1690661	.1260149	1.34	0.183	-.0816826	.4198148
w1smoke#c.timew1w3		- .014168	.0244944	-0.58	0.563	-.0622623	.0339263
	timew1w3	0	(omitted)				
	1.w1currdrugs	.3692027	.1766306	2.09	0.048	.0040251	.7343803
w1currdrugs#c.timew1w3		- .0080671	.029722	-0.27	0.786	-.0665374	.0504032
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0012926	.0047443	0.27	0.786	-.0080725	.0106576
c.timew1w3#c.w1hei2010_total_scorecent43		.000142	.0010736	0.13	0.895	-.0019788	.0022627
	timew1w3	0	(omitted)				
	w1BMICent30	-.0116807	.0073993	-1.58	0.115	-.0261992	.0028379
c.timew1w3#c.w1BMICent30		- .001392	.0014214	-0.98	0.327	-.0041782	.0013943
	timew1w3	0	(omitted)				
	invmillsmms	.0055574	.0034123	1.63	0.103	-.0011306	.0122455
c.timew1w3#c.invmillsmms		- .0005337	.0006152	-0.87	0.386	-.0017396	.0006721
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0211829	.0526706	-0.40	0.688	-.1244154	.0820496
c.timew1w3#c.zw1w3HCYTRAJ		- .0140206	.0101485	-1.38	0.167	-.0339113	.0058701
	_cons	7.209374	.2330864	30.93	0.000	6.752504	7.666244

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0174348	.	.
sd(_cons)	1.477103	.	.
corr(timew1w3,_cons)	.9999714	.	.
sd(Residual)	1.191404	.	.

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```
74 . 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.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID	Number of 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 adjustment: Large sample	DF: min = 0.00
	avg = .
	max = .
Model F test: Equal FMI	F(27, 28717.3) = 25.52
	Prob > F = 0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	- .0327961	.047138	-0.70	0.487	-.1252009 .0596088
w1Agecent48	- .0165735	.0055554	-2.98	0.003	-.0274627 -.0056842
c.timew1w3#c.w1Agecent48	- .0008534	.0011686	-0.73	0.465	-.0031438 .001437
timew1w3	0 (omitted)				
Sex					
Men	-.0262246	.1048407	-0.25	0.802	-.2317135 .1792644
Sex#c.timew1w3					
Men	-.0246791	.0221497	-1.11	0.265	-.0680922 .018734
timew1w3	0 (omitted)				
Race					
AfrAm	-.5610422	.1057659	-5.30	0.000	-.7683423 -.353742
Race#c.timew1w3					
AfrAm	-.0223979	.022555	-0.99	0.321	-.0666058 .02181
timew1w3	0 (omitted)				
PovStat					
Below	-.1219207	.1094314	-1.11	0.265	-.3364147 .0925733
PovStat#c.timew1w3					
Below	-.0008592	.0226422	-0.04	0.970	-.0452373 .0435189
timew1w3	0 (omitted)				
w1edubr					
2	-.2185383	.2155589	-1.01	0.311	-.6410342 .2039575
3	.1320191	.2349927	0.56	0.574	-.3285831 .5926213
w1edubr#c.timew1w3					
2	.0558955	.0441316	1.27	0.205	-.0306013 .1423923
3	.0269784	.048353	0.56	0.577	-.0677925 .1217493

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1234642	.007314	16.88	0.000	.109129	.1377995
c.timew1w3#c.w1WRATtotalcent42		-.0017371	.0015517	-1.12	0.263	-.0047787	.0013044
	timew1w3	0	(omitted)				
	1.w1smoke	-.053526	.1252486	-0.43	0.670	-.3031621	.19611
w1smoke#c.timew1w3		.0037622	.0278574	0.14	0.893	-.0517381	.0592625
	timew1w3	0	(omitted)				
	1.w1currdrugs	.121457	.14386	0.84	0.400	-.1622064	.4051204
w1currdrugs#c.timew1w3		.0209246	.0300973	0.70	0.487	-.0381448	.079994
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.000631	.0051422	-0.12	0.903	-.0109734	.0097115
c.timew1w3#c.w1hei2010_total_scorecent43		.0010879	.0011791	0.92	0.360	-.00127	.0034457
	timew1w3	0	(omitted)				
	w1BMICent30	-.0061692	.0070801	-0.87	0.384	-.0200515	.0077131
c.timew1w3#c.w1BMICent30		-.0024862	.00148	-1.68	0.093	-.0053877	.0004153
	timew1w3	0	(omitted)				
	invmillsmms	.0052727	.0032956	1.60	0.110	-.0011866	.011732
c.timew1w3#c.invmillsmms		-.0004155	.0006376	-0.65	0.515	-.0016652	.0008341
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0472742	.0509823	-0.93	0.354	-.1471977	.0526493
c.timew1w3#c.zw1w3HCYTRAJ		.0031054	.0105079	0.30	0.768	-.0174898	.0237005
	_cons	6.002847	.2276035	26.37	0.000	5.556637	6.449058

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	1.84e-06	.			
sd(_cons)	1.347453	.0391255	1.272909	1.426361	.
sd(Residual)	1.237897	.0247693	1.19029	1.287409	

75 .

```
76 . 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 ///
> if sample4iobs==1 || HNDID: timew1w3, cov(un)
```

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	=	0.0342
Largest FMI	=	0.1706
DF: min	=	156.12
avg	=	7.24e+07
max	=	2.26e+09
Model F test: Equal FMI	F(27,67437.9)	= 8.02
	Prob > F	= 0.0000

DF adjustment: Large sample

	clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0632391	.0364932	-1.73	0.083	-.134776 .0082978
	w1Agecent48	-.0029666	.0034538	-0.86	0.390	-.009736 .0038027
	c.timew1w3##c.w1Agecent48	-.0021658	.0009024	-2.40	0.016	-.0039346 -.0003971
	timew1w3	0	(omitted)			
	Sex					
	Men	.0964387	.0651983	1.48	0.139	-.0313477 .2242252
	Sex##c.timew1w3					
	Men	.0111816	.0170703	0.66	0.512	-.0222758 .0446389
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.308361	.0659485	-4.68	0.000	-.4376177 -.1791044
	Race##c.timew1w3					
	AfrAm	.0160673	.0173377	0.93	0.354	-.0179141 .0500486
	timew1w3	0	(omitted)			
	PovStat					
	Below	.0546079	.0683655	0.80	0.424	-.0793868 .1886025
	PovStat##c.timew1w3					
	Below	-.0050065	.0174982	-0.29	0.775	-.0393023 .0292893
	timew1w3	0	(omitted)			
	w1edubr					
	2	-.0236003	.137497	-0.17	0.864	-.2931644 .2459638
	3	.1646169	.1491946	1.10	0.270	-.1278546 .4570885
	w1edubr##c.timew1w3					
	2	.0436282	.0346779	1.26	0.208	-.024348 .1116044
	3	.0580646	.037966	1.53	0.126	-.0163579 .1324871

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.0289298	.004603	6.28	0.000	.0199075	.0379521
c.timew1w3#c.w1WRATtotalcent42		-.0011621	.0012009	-0.97	0.333	-.0035165	.0011923
	timew1w3	0	(omitted)				
	1.w1smoke	-.0312612	.0758651	-0.41	0.681	-.1807276	.1182052
	w1smoke#c.timew1w3						
	1	.0099465	.0200105	0.50	0.620	-.0294516	.0493446
	timew1w3	0	(omitted)				
	1.w1currrdrugs	.3001824	.0933796	3.21	0.002	.1157319	.4846328
	w1currrdrugs#c.timew1w3						
	1	-.0594817	.0227962	-2.61	0.009	-.1041899	-.0147735
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0025557	.0030174	0.85	0.398	-.0033792	.0084906
c.timew1w3#c.w1hei2010_total_scorecent43		.0004593	.0008336	0.55	0.582	-.0011827	.0021013
	timew1w3	0	(omitted)				
	w1BMICent30	-.0032454	.0043808	-0.74	0.459	-.0118319	.0053411
c.timew1w3#c.w1BMICent30		-.0000517	.0011337	-0.05	0.964	-.0022738	.0021705
	timew1w3	0	(omitted)				
	invmillsmms	.000465	.0020849	0.22	0.824	-.0036213	.0045513
c.timew1w3#c.invmillsmms		-.0002253	.0004991	-0.45	0.652	-.0012037	.000753
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0364794	.0319254	-1.14	0.253	-.0990521	.0260933
c.timew1w3#c.zw1w3HCYTRAJ		-.0096479	.0080965	-1.19	0.233	-.0255166	.0062209
	_cons	8.817238	.1430263	61.65	0.000	8.536839	9.097636

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0596919	.0625228	.007662	.465037	
sd(_cons)	.644579	.0733003	.5157971	.8055145	
corr(timew1w3,_cons)	-.1628697	.3325891	-.6825966	.4662701	
sd(Residual)	.9550297	.0455607	.8697799	1.048635	

77 .
 78 . 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 ///
 > 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 = 0.0331
 Largest FMI = 0.3102

DF adjustment: Large sample

DF: min = 49.91
 avg = 3.84e+07
 max = 9.62e+08

Model F test: Equal FMI

F(27, 75216.2) = 17.37
 Prob > F = 0.0000

	LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0133789	.0096421	1.39	0.165	.0055227	.0322804
w1Agecent48	.0111198	.0010621	10.47	0.000	.0090381	.0132015
c.timew1w3#c.w1Agecent48	.0005847	.0002374	2.46	0.014	.0001193	.00105
timew1w3	0 (omitted)					
Sex Men	.091424	.0200586	4.56	0.000	.0521098	.1307382
Sex#c.timew1w3 Men	.00055	.0044895	0.12	0.902	-.0082493	.0093493
timew1w3	0 (omitted)					
Race AfrAm	.1533638	.0202392	7.58	0.000	.1136956	.193032
Race#c.timew1w3 AfrAm	-.0015143	.0045325	-0.33	0.738	-.0103978	.0073692
timew1w3	0 (omitted)					
PovStat Below	.0607114	.0209677	2.90	0.004	.0196154	.1018074
PovStat#c.timew1w3 Below	.0013034	.0045871	0.28	0.776	-.0076872	.0102941
timew1w3	0 (omitted)					
w1edubr 2	-.0601324	.0425522	-1.41	0.158	-.1435698	.0233049
3	-.0468071	.0462742	-1.01	0.312	-.1375568	.0439425
w1edubr#c.timew1w3 2	-.0081193	.0091714	-0.89	0.376	-.0260996	.0098611
3	-.0129578	.0100351	-1.29	0.197	-.0326327	.0067172

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	- .008076	.0014287	-5.65	0.000	-.0108761	-.0052759
c.timew1w3#c.w1WRATtotalcent42		- .000478	.0003165	-1.51	0.131	-.0010983	.0001424
	timew1w3	0	(omitted)				
	1.w1smoke	.0047377	.023166	0.20	0.838	-.0410096	.0504849
	w1smoke#c.timew1w3						
	1	.0026818	.0050805	0.53	0.598	-.0072819	.0126455
	timew1w3	0	(omitted)				
	1.w1currdrugs	.0512984	.0272508	1.88	0.061	-.0023051	.104902
	w1currdrugs#c.timew1w3						
	1	-.0041126	.006067	-0.68	0.498	-.0160169	.0077918
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0000215	.0009954	-0.02	0.983	-.0020208	.0019779
c.timew1w3#c.w1hei2010_total_scorecent43		.0001176	.000227	0.52	0.605	-.0003312	.0005664
	timew1w3	0	(omitted)				
	w1BMICent30	.0024447	.0013405	1.82	0.068	-.0001827	.005072
c.timew1w3#c.w1BMICent30		-.0002654	.0002949	-0.90	0.368	-.0008434	.0003126
	timew1w3	0	(omitted)				
	invmillsmms	.0003757	.0006276	0.60	0.549	-.0008544	.0016057
c.timew1w3#c.invmillsmms		-.0001331	.0001283	-1.04	0.300	-.0003846	.0001184
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.0297622	.0098361	3.03	0.002	.0104838	.0490407
c.timew1w3#c.zw1w3HCYTRAJ		-.0012078	.0021305	-0.57	0.571	-.0053834	.0029679
	_cons	3.350763	.044257	75.71	0.000	3.26399	3.437536

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0226179	.0059494	.0135068	.0378749	
sd(_cons)	.2546959	.0077908	.2398748	.2704327	
sd(Residual)	.2374566	.0076423	.2229406	.2529178	

79 .

80 . 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 ///
 > if sample4kobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0492
 Largest FMI = 0.2635

DF adjustment: Large sample

DF: min = 68.19
 avg = 4430109.26
 max = 6.34e+07

Model F test: Equal FMI

F(27, 33293.3) = 28.02
 Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0108584	.0147549	0.74	0.462	.0180668	.0397837
w1Agecent48	.0162377	.0017693	9.18	0.000	.0127699	.0197055
c.timew1w3#c.w1Agecent48	.0006152	.0003576	1.72	0.085	-.0000858	.0013162
timew1w3	0 (omitted)					
Sex						
Men	.0569853	.0333224	1.71	0.087	-.0083255	.1222961
Sex#c.timew1w3						
Men	-.0050151	.0067354	-0.74	0.457	-.0182163	.0081861
timew1w3	0 (omitted)					
Race						
AfrAm	.3047792	.0336813	9.05	0.000	.2387645	.3707938
Race#c.timew1w3						
AfrAm	.0000659	.0068598	0.01	0.992	-.0133792	.0135109
timew1w3	0 (omitted)					
PovStat						
Below	.1300263	.0349235	3.72	0.000	.0615767	.1984759
PovStat#c.timew1w3						
Below	.0004132	.0069939	0.06	0.953	-.0132949	.0141213
timew1w3	0 (omitted)					
w1edubr						
2	-.112328	.0698075	-1.61	0.108	-.2491545	.0244986
3	-.2156566	.07528	-2.86	0.004	-.3632036	-.0681096
w1edubr#c.timew1w3						
2	-.0075525	.0140413	-0.54	0.591	-.0350748	.0199699
3	-.0076926	.0152266	-0.51	0.613	-.0375387	.0221535

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	- .0264904	.0023995	-11.04	0.000	-.0311937	-.0217871
c.timew1w3#c.w1WRATtotalcent42		- .0001115	.000499	-0.22	0.823	-.0010896	.0008666
	timew1w3	0	(omitted)				
	1.w1smoke	.0054977	.0387106	0.14	0.887	-.0711441	.0821395
	w1smoke#c.timew1w3						
	1	.008141	.0080323	1.01	0.312	-.0076751	.0239571
	timew1w3	0	(omitted)				
	1.w1currdrugs	-.0066297	.0467612	-0.14	0.887	-.0991804	.0859209
	w1currdrugs#c.timew1w3						
	1	-.0025502	.0094806	-0.27	0.788	-.0212128	.0161124
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0006496	.001522	0.43	0.670	-.0023663	.0036656
c.timew1w3#c.w1hei2010_total_scorecent43		-.0001581	.0003609	-0.44	0.663	-.0008782	.000562
	timew1w3	0	(omitted)				
	w1BMICent30	.0020576	.0022373	0.92	0.358	-.002328	.0064433
c.timew1w3#c.w1BMICent30		-.0006452	.0004481	-1.44	0.150	-.0015236	.0002332
	timew1w3	0	(omitted)				
	invmillsmms	-.0023884	.001042	-2.29	0.022	-.0044307	-.0003461
c.timew1w3#c.invmillsmms		-.0002427	.0004692	-0.52	0.605	-.0011624	.000677
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.0192235	.0163873	1.17	0.241	-.0128951	.051342
c.timew1w3#c.zw1w3HCYTRAJ		.0064094	.0032092	2.00	0.046	.0001194	.0126993
	_cons	4.494135	.0726912	61.83	0.000	4.351656	4.636614

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0598708	.0131505	.0389269
sd(_cons)	.4911132	.021511	.4507113
corr(timew1w3,_cons)	-.4739568	.0481931	-.5628422
sd(Residual)	.3035833	.0276044	.2540266
			.3628078

```

81 .
82 .
83 . save, replace
      file finaldata_imputed_FINAL.dta saved

84 .
85 .
86 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
87 .
88 . 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##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates          Imputations      =      5
Mixed-effects ML regression           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( 43, 87809.6) =    24.40
                                         Prob > F      = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0954816	.0561805	1.70	0.089	-.0146432	.2056063
w1Agecent48	-.0201654	.0056604	-3.56	0.000	-.0312624	-.0090684
c.timew1w3#c.w1Agecent48	-.0028988	.0012849	-2.26	0.024	-.0054179	-.0003797
timew1w3	0 (omitted)					
Sex						
Men	-.3718135	.0991588	-3.75	0.000	-.5661701	-.1774569
Sex#c.timew1w3						
Men	.0242466	.0226291	1.07	0.284	-.0201148	.0686081
timew1w3	0 (omitted)					
Race						
AfrAm	-.2517891	.10086	-2.50	0.013	-.4495098	-.0540684
Race#c.timew1w3						
AfrAm	-.0168096	.0232092	-0.72	0.469	-.0623038	.0286845
timew1w3	0 (omitted)					
PovStat						
Below	-.0204326	.102082	-0.20	0.841	-.220511	.1796458
PovStat#c.timew1w3						
Below	-.0300755	.0228505	-1.32	0.188	-.0748617	.0147108

	timew1w3	0	(omitted)				
w1edubr							
2	.5044342	.199528	2.53	0.011	.1133418	.8955265	
3	.6759875	.2181655	3.10	0.002	.2483409	1.103634	
w1edubr#c.timew1w3							
2	-.0593661	.0462296	-1.28	0.199	-.1499876	.0312554	
3	-.0589912	.0502047	-1.18	0.240	-.1574172	.0394348	
timew1w3	0	(omitted)					
w1WRATtotalcent42	.1443483	.0069031	20.91	0.000	.1308167	.1578799	
c.timew1w3#c.w1WRATtotalcent42	-.00776	.0017105	-4.54	0.000	-.0111134	-.0044065	
timew1w3	0	(omitted)					
1.w1smoke	.0335497	.108765	0.31	0.758	-.1800697	.247169	
w1smoke#c.timew1w3							
1	-.0517119	.0246947	-2.09	0.036	-.1001167	-.0033071	
timew1w3	0	(omitted)					
1.w1currdrugs	-.039383	.1403256	-0.28	0.780	-.3174996	.2387337	
w1currdrugs#c.timew1w3							
1	.0155773	.0308095	0.51	0.613	-.045041	.0761956	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.0046397	.0048855	-0.95	0.347	-.0144393	.0051598	
c.timew1w3#c.w1hei2010_total_scorecent43	.0006543	.0012081	0.54	0.591	-.0017799	.0030885	
timew1w3	0	(omitted)					
w1BMIcon30	-.0058936	.0070559	-0.84	0.404	-.0197271	.00794	
c.timew1w3#c.w1BMIcon30	.0002255	.0015606	0.14	0.885	-.0028333	.0032843	
timew1w3	0	(omitted)					
w1SRH							
2	.1688542	.1306885	1.29	0.196	-.0872907	.4249991	
3	.0919555	.1404208	0.65	0.513	-.1832653	.3671763	
w1SRH#c.timew1w3							
2	-.0066785	.030081	-0.22	0.824	-.0656363	.0522792	
3	-.0092955	.0322897	-0.29	0.773	-.0725831	.0539922	
timew1w3	0	(omitted)					
w1CEScent15	-.0080996	.0045978	-1.76	0.078	-.0171115	.0009123	
c.timew1w3#c.w1CEScent15	.000703	.0010557	0.67	0.505	-.0013661	.0027722	
timew1w3	0	(omitted)					
w1dxHTN							
Yes	.0315935	.1083602	0.29	0.771	-.1807986	.2439856	
w1dxHTN#c.timew1w3							
Yes	-.0107813	.0252782	-0.43	0.670	-.0603418	.0387793	
timew1w3	0	(omitted)					
w1dxDiabetes							

	preDiabetes	- .0081855	.1270278	-0.06	0.949	-.2572668	.2408958
	Diabetes	-.0657182	.1585616	-0.41	0.679	-.3787643	.2473278
w1dxDiabetes#c.timew1w3							
	preDiabetes	.0310576	.0288975	1.07	0.282	-.0255836	.0876988
	Diabetes	-.0513459	.0360165	-1.43	0.154	-.1220755	.0193837
	timew1w3		0 (omitted)				
w1CVhighChol							
	Yes	.186211	.1194975	1.56	0.120	-.048382	.4208039
w1CVhighChol#c.timew1w3							
	Yes	.0059101	.0279452	0.21	0.833	-.0489002	.0607205
	timew1w3		0 (omitted)				
	1.w1cvdbr	-.0261791	.1401852	-0.19	0.852	-.3025267	.2501686
w1cvdbr#c.timew1w3							
	1	-.0010992	.0323571	-0.03	0.973	-.0647813	.0625829
	timew1w3		0 (omitted)				
	invmillsmms	.0079883	.0029935	2.67	0.008	.0021212	.0138554
c.timew1w3#c.invmillsmms		-.0018973	.0006205	-3.06	0.002	-.0031135	-.0006811
	timew1w3		0 (omitted)				
	zw1w3HCYTRAJ	-.0089706	.0476075	-0.19	0.851	-.1022795	.0843384
c.timew1w3#c.zw1w3HCYTRAJ		.0046345	.0106972	0.43	0.665	-.0163317	.0256006
	_cons	27.32216	.239964	113.86	0.000	26.85183	27.79249

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0968606	.	.
sd(_cons)	1.204694	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.182053	.	.

89 .

90 .

```
91 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> 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 =	0.0424
	Largest FMI =	0.3430
DF adjustment:	Large sample	DF: min = 41.14
		avg = 1.85e+09
		max = 8.70e+10
Model F test:	Equal FMI	F(43,85514.3) = 22.35
		Prob > F = 0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4655969	.4606909	1.01	0.312	-.4374342 1.368628
w1Agecent48	-.1750542	.0408872	-4.28	0.000	-.2551963 -.0949122
c.timew1w3#c.w1Agecent48	-.0240961	.010389	-2.32	0.020	-.0444602 -.0037319
timew1w3	0 (omitted)				
Sex					
Men	-2.273404	.7215202	-3.15	0.002	-3.687616 -.8591924
Sex#c.timew1w3					
Men	.1393927	.1843075	0.76	0.449	-.2219232 .5007086
timew1w3	0 (omitted)				
Race					
AfrAm	-3.537329	.7304034	-4.84	0.000	-4.968999 -2.10566
Race#c.timew1w3					
AfrAm	.0378422	.1888904	0.20	0.841	-.3323924 .4080768
timew1w3	0 (omitted)				
PovStat					
Below	-.3088168	.7436554	-0.42	0.678	-1.766369 1.148735
PovStat#c.timew1w3					
Below	-.2836974	.1860719	-1.52	0.127	-.648392 .0809972
timew1w3	0 (omitted)				
w1edubr					
2	3.737789	1.452176	2.57	0.010	.8914284 6.58415
3	5.707679	1.587216	3.60	0.000	2.596511 8.818848
w1edubr#c.timew1w3					
2	-.4857324	.3784413	-1.28	0.199	-1.227536 .2560712
3	-.3482871	.4089249	-0.85	0.394	-1.14988 .4533057
timew1w3	0 (omitted)				
w1WRATtotalcent42	.9399265	.0502071	18.72	0.000	.841512 1.038341
c.timew1w3#c.w1WRATtotalcent42	-.0316286	.0141172	-2.24	0.025	-.0593043 -.0039529
timew1w3	0 (omitted)				
1.w1smoke	-.3576741	.7872612	-0.45	0.650	-1.902839 1.18749

w1smoke#c.timew1w3						
1	-.2874325	.1998968	-1.44	0.150	-.6792234	.1043584
timew1w3	0	(omitted)				
1.w1currdrugs	.3113907	1.026816	0.30	0.762	-1.725039	2.34782
w1currdrugs#c.timew1w3						
1	.044066	.2573112	0.17	0.864	-.4640882	.5522202
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	-.0266807	.0344153	-0.78	0.440	-.0950908	.0417294
c.timew1w3#c.w1hei2010_total_scorecent43						
1	.0064324	.0099411	0.65	0.521	-.013642	.0265068
timew1w3	0	(omitted)				
w1BMIcon30	-.0517435	.0509922	-1.01	0.310	-.1516955	.0482084
c.timew1w3#c.w1BMIcon30						
1	.0000908	.012696	0.01	0.994	-.024793	.0249745
timew1w3	0	(omitted)				
w1SRH						
2	1.325056	.9518137	1.39	0.164	-.5404681	3.19058
3	1.51584	1.027156	1.48	0.140	-.497452	3.529133
w1SRH#c.timew1w3						
2	-.1080024	.2454756	-0.44	0.660	-.5891258	.373121
3	-.1774314	.2638244	-0.67	0.501	-.6945303	.3396675
timew1w3	0	(omitted)				
w1CEScent15						
2	-.0617439	.0334033	-1.85	0.065	-.1272145	.0037266
3						
c.timew1w3#c.w1CEScent15						
1	.0053193	.008634	0.62	0.538	-.0116043	.0222429
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.4315588	.7927104	0.54	0.586	-1.122254	1.985371
w1dxHTN#c.timew1w3						
Yes	-.0770401	.20501	-0.38	0.707	-.4788983	.324818
timew1w3	0	(omitted)				
w1dxDiabetes						
preDiabetes	.5169786	.9285707	0.56	0.578	-1.303969	2.337926
Diabetes	.047816	1.140083	0.04	0.967	-2.197986	2.293618
w1dxDiabetes#c.timew1w3						
preDiabetes	.2352165	.2351453	1.00	0.317	-.2256636	.6960965
Diabetes	-.4112614	.2905656	-1.42	0.157	-.9812737	.1587509
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	1.216219	.8744132	1.39	0.165	-.5007904	2.933229
w1CVhighChol#c.timew1w3						
Yes	.1093453	.2337625	0.47	0.640	-.3501016	.5687921
timew1w3	0	(omitted)				
1.w1cvdbr	-.4990339	1.041155	-0.48	0.632	-2.557215	1.559147

	Sex#c.timew1w3						
	Men	-.2286083	.0768315	-2.98	0.003	-.3791974	-.0780193
	timew1w3	0	(omitted)				
	Race						
	AfrAm	-2.286879	.3629475	-6.30	0.000	-2.998394	-1.575365
	Race#c.timew1w3						
	AfrAm	.1054624	.0790968	1.33	0.183	-.0496138	.2605386
	timew1w3	0	(omitted)				
	PovStat						
	Below	-.1267044	.364286	-0.35	0.728	-.8407059	.5872971
	PovStat#c.timew1w3						
	Below	-.0319803	.0768945	-0.42	0.677	-.1826954	.1187349
	timew1w3	0	(omitted)				
	w1edubr						
	2	-.4991364	.7017272	-0.71	0.477	-1.875454	.8771812
	3	1.711806	.764356	2.24	0.025	.2130326	3.210579
	w1edubr#c.timew1w3						
	2	.1002452	.1457389	0.69	0.492	-.1854923	.3859828
	3	-.0644884	.1602589	-0.40	0.687	-.3786474	.2496707
	timew1w3	0	(omitted)				
	w1WRATTtotalcent42	.2244723	.0243133	9.23	0.000	.1768177	.272127
	c.timew1w3#c.w1WRATTtotalcent42	-.0064558	.0051677	-1.25	0.212	-.0165846	.0036731
	timew1w3	0	(omitted)				
	1.w1smoke	.1553915	.3851269	0.40	0.687	-.6028563	.9136393
	w1smoke#c.timew1w3						
	1	-.0289253	.0892075	-0.32	0.746	-.2049884	.1471377
	timew1w3	0	(omitted)				
	1.w1currrdrugs	-.2644149	.450099	-0.59	0.557	-1.147265	.6184351
	w1currrdrugs#c.timew1w3						
	1	.1138221	.1009918	1.13	0.260	-.0845047	.312149
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0240536	.0181959	1.32	0.195	-.0129555	.0610627
	c.timew1w3#c.w1hei2010_total_scorecent43	-.003445	.0039654	-0.87	0.387	-.011328	.004438
	timew1w3	0	(omitted)				
	w1BMIcon30	.0026318	.0248348	0.11	0.916	-.0460456	.0513093
	c.timew1w3#c.w1BMIcon30	-.0013506	.0052639	-0.26	0.798	-.0116676	.0089665
	timew1w3	0	(omitted)				
	w1SRH						
	2	.9130135	.4646693	1.96	0.049	.0022264	1.8238
	3	.8353447	.5010794	1.67	0.096	-.1468714	1.817561

w1SRH#c.timew1w3						
2	-.1457274	.0999952	-1.46	0.145	-.3417164	.0502616
3	-.13555	.1072121	-1.26	0.206	-.3456838	.0745837
timew1w3	0	(omitted)				
w1CEScent15	-.0667899	.0160842	-4.15	0.000	-.0983144	-.0352655
c.timew1w3#c.w1CEScent15	-.0074757	.0034918	-2.14	0.032	-.0143197	-.0006317
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.0839127	.3845229	0.22	0.827	-.6698684	.8376938
w1dxHTN#c.timew1w3						
Yes	-.0254127	.0845765	-0.30	0.764	-.1911908	.1403653
timew1w3	0	(omitted)				
w1dxDiabetes						
preDiabetes	-.3674941	.447001	-0.82	0.411	-1.24377	.5087814
Diabetes	.6726405	.5339849	1.26	0.208	-.3749999	1.720281
w1dxDiabetes#c.timew1w3						
preDiabetes	.1475976	.0993228	1.49	0.137	-.0471521	.3423474
Diabetes	-.2945092	.1205829	-2.44	0.015	-.5312331	-.0577854
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.2569983	.418326	-0.61	0.539	-1.077868	.5638713
w1CVhighChol#c.timew1w3						
Yes	.1732203	.0961841	1.80	0.072	-.0154937	.3619343
timew1w3	0	(omitted)				
1.w1cvdbr	.5087037	.4674831	1.09	0.277	-.408574	1.425981
w1cvdbr#c.timew1w3						
1	-.1559664	.1066982	-1.46	0.144	-.3655231	.0535903
timew1w3	0	(omitted)				
invmillsmms	.0183418	.0102243	1.79	0.073	-.0016975	.0383812
c.timew1w3#c.invmillsmms	-.0003588	.0019946	-0.18	0.857	-.0042682	.0035506
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	.4857511	.171056	2.84	0.005	.1504867	.8210155
c.timew1w3#c.zw1w3HCYTRAJ	-.0432167	.0362724	-1.19	0.233	-.1143097	.0278763
_cons	25.896	.840966	30.79	0.000	24.24761	27.54439

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3450871	.1027284	.1925399	.6184957
sd(_cons)	4.288871	.1293483	4.042699	4.550033
sd(Residual)	3.655133	.1303083	3.408446	3.919675

96 .
 97 .
 98 .
 99 . 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
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > 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	= 0.0604
	Largest FMI	= 0.3355
DF adjustment: Large sample	DF: min	= 42.92
	avg	= 176,778.66
	max	= 2088791.55
Model F test: Equal FMI	F(43,43237.1)	= 24.12
	Prob > F	= 0.0000

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.3977433	.0870579	-4.57	0.000	-.5683747 -.2271118
		-.0798984	.0097009	-8.24	0.000	-.0989128 -.0608839
c.timew1w3#c.w1Agecent48		-.0046008	.0021529	-2.14	0.033	-.0088205 -.0003811
timew1w3		0	(omitted)			
Sex						
Men		-.99661	.17062	-5.84	0.000	-1.331021 -.6621989
Sex#c.timew1w3						
Men		-.0602851	.0375078	-1.61	0.108	-.1338005 .0132304
timew1w3		0	(omitted)			
Race						
AfrAm		-1.327117	.1739361	-7.63	0.000	-1.668081 -.9861523
Race#c.timew1w3						
AfrAm		.0238578	.0383782	0.62	0.534	-.0513704 .099086
timew1w3		0	(omitted)			
PovStat						
Below		.0034149	.1756215	0.02	0.984	-.3408083 .3476382

PovStat#c.timew1w3 Below		- .0263783	.0376048	-0.70	0.483	-.1000855	.0473289
	timew1w3		0 (omitted)				
w1edubr 2 3		-.1679871	.3394219	-0.49	0.621	-.833646	.4976718
		.5063546	.36904	1.37	0.170	-.217167	1.229876
w1edubr#c.timew1w3 2 3		-.0084545	.0702986	-0.12	0.904	-.1462601	.129351
		-.0027123	.0774611	-0.04	0.972	-.1545447	.1491201
timew1w3 w1WRATtotalcent42		0 (omitted)					
		.095186	.0118089	8.06	0.000	.0720378	.1183342
c.timew1w3#c.w1WRATtotalcent42		-.0044895	.0025151	-1.78	0.074	-.0094191	.0004401
timew1w3 1.w1smoke		0 (omitted)					
		.0448465	.1985656	0.23	0.822	-.3500676	.4397605
w1smoke#c.timew1w3 1		-.0139413	.0461847	-0.30	0.764	-.1060581	.0781755
timew1w3 1.w1currdrugs		0 (omitted)					
		-.1437298	.2293876	-0.63	0.532	-.5959458	.3084862
w1currdrugs#c.timew1w3 1		-.0184317	.0521899	-0.35	0.725	-.1217714	.0849079
timew1w3 w1hei2010_total_scorecent43		0 (omitted)					
		.0075407	.0086349	0.87	0.387	-.0098742	.0249555
c.timew1w3#c.w1hei2010_total_scorecent43		-.0005354	.0019592	-0.27	0.785	-.0044311	.0033602
timew1w3 w1BMIcon30		0 (omitted)					
		.0265124	.0119766	2.21	0.027	.0030376	.0499872
c.timew1w3#c.w1BMIcon30		-.0024821	.0025781	-0.96	0.336	-.007535	.0025709
timew1w3 w1SRH		0 (omitted)					
		.2532854	.2235231	1.13	0.257	-.1848228	.6913936
		.067389	.2417688	0.28	0.780	-.4065229	.541301
w1SRH#c.timew1w3 2 3		.014785	.0491121	0.30	0.763	-.0814731	.1110431
		.0543796	.0526759	1.03	0.302	-.0488633	.1576226
timew1w3 w1CEScent15		0 (omitted)					
		-.0304169	.0077914	-3.90	0.000	-.0456878	-.0151461
c.timew1w3#c.w1CEScent15		-.0001631	.0017301	-0.09	0.925	-.0035549	.0032288
timew1w3 w1dxHTN		0 (omitted)					
		.0081123	.1851142	0.04	0.965	-.3547698	.3709944
w1dxHTN#c.timew1w3 Yes		.0242726	.0411962	0.59	0.556	-.056472	.1050172

	timew1w3	0 (omitted)				
w1dxDiabetes						
preDiabetes		-.2252715	.2154842	-1.05	0.296	-.647811
Diabetes		-.2082687	.2661146	-0.78	0.434	-.7318889
w1dxDiabetes#c.timew1w3						
preDiabetes		.0647781	.047841	1.35	0.176	-.0290047
Diabetes		-.0178457	.0584032	-0.31	0.760	-.1324544
timew1w3	0 (omitted)					
w1CVhighChol						
Yes		-.0692192	.2078739	-0.33	0.739	-.4780705
w1CVhighChol#c.timew1w3						
Yes		.0619186	.0479291	1.29	0.197	-.0322826
timew1w3	0 (omitted)					
1.w1cvdbr		.2867455	.2310097	1.24	0.215	-.1670879
w1cvdbr#c.timew1w3						
1		-.0505306	.0515842	-0.98	0.327	-.1517028
timew1w3	0 (omitted)					
invmillsmms		.0082619	.004869	1.70	0.090	-.0012812
c.timew1w3#c.invmillsmms						
		-.0004576	.0009445	-0.48	0.628	-.0023087
timew1w3	0 (omitted)					
zw1w3HCYTRAJ		.3281893	.0830306	3.95	0.000	.1654521
c.timew1w3#c.zw1w3HCYTRAJ						
		-.0342433	.0178398	-1.92	0.055	-.0692089
_cons	8.338409	.4091397	20.38	0.000	7.536346	9.140473

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0752499	.1049713	.0048876	1.158561
sd(_cons)	1.971198	.0634268	1.850722	2.099517
sd(Residual)	1.800312	.0610101	1.684619	1.92395

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 101 .
 102 .

```
103 . 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 ///
> if sample4dobs==1 || HNDID: timew1w3, cov(un)
```

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 = 0.0371
Largest FMI = 0.2878

DF adjustment: Large sample

DF: min = 57.60
avg = 674,263.49
max = 8606930.69

Model F test: Equal FMI

F(43, 106161.1) = 21.39
Prob > F = 0.0000

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.5018662	.1318186	3.81	0.000	.2434885 .7602438
w1Agecent48	.1110382	.0144151	7.70	0.000	.0827847 .1392916
c.timew1w3#c.w1Agecent48	.0102172	.0030668	3.33	0.001	.0042064 .0162279
timew1w3	0 (omitted)				
Sex Men	-.9192835	.2560201	-3.59	0.000	-1.421098 -.4174684
Sex#c.timew1w3 Men	.0520679	.0539842	0.96	0.335	-.0537438 .1578797
timew1w3	0 (omitted)				
Race AfrAm	.6333964	.2570415	2.46	0.014	.1296024 1.13719
Race#c.timew1w3 AfrAm	.1503795	.0548366	2.74	0.006	.0429009 .2578582
timew1w3	0 (omitted)				
PovStat Below	.0874016	.2639425	0.33	0.741	-.4299166 .6047197
PovStat#c.timew1w3 Below	.0565218	.0551259	1.03	0.305	-.051523 .1645667
timew1w3	0 (omitted)				
w1edubr 2	-.6010822	.5159805	-1.16	0.244	-1.612597 .4104322
3	-1.399564	.5675271	-2.47	0.014	-2.512422 -.2867057
w1edubr#c.timew1w3 2	-.166648	.1071373	-1.56	0.120	-.376637 .0433411
3	-.1428756	.1170553	-1.22	0.222	-.3723011 .0865499

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	-.1488525	.0178887	-8.32	0.000	-.183928	-.113777
c.timew1w3#c.w1WRATtotalcent42		-.0040154	.0037203	-1.08	0.280	-.0113072	.0032763
	timew1w3	0	(omitted)				
	1.w1smoke	.2921505	.2806688	1.04	0.299	-.2598976	.8441986
w1smoke#c.timew1w3		-.045178	.0596382	-0.76	0.449	-.1620814	.0717253
	timew1w3	0	(omitted)				
	1.w1currrdrugs	-.4232011	.3768955	-1.12	0.266	-1.17775	.3313474
w1currrdrugs#c.timew1w3		.1175148	.073953	1.59	0.113	-.0277947	.2628243
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0034073	.0114713	-0.30	0.767	-.0261407	.019326
c.timew1w3#c.w1hei2010_total_scorecent43		-.0035802	.0027227	-1.31	0.191	-.0089793	.0018189
	timew1w3	0	(omitted)				
	w1BMIcontent30	-.0101105	.0179497	-0.56	0.573	-.0452915	.0250706
c.timew1w3#c.w1BMIcontent30		-.0035423	.0038098	-0.93	0.352	-.0110093	.0039247
	timew1w3	0	(omitted)				
	w1SRH						
	2	-.8290348	.3395771	-2.44	0.015	-1.494596	-.1634734
	3	-.8039855	.3658433	-2.20	0.028	-1.521029	-.0869416
w1SRH#c.timew1w3		-.0588336	.072065	-0.82	0.414	-.2000787	.0824114
	2	-.014961	.0778266	-0.19	0.848	-.1675056	.1375836
	timew1w3	0	(omitted)				
	w1CEScent15	.0447991	.0120842	3.71	0.000	.0211066	.0684916
c.timew1w3#c.w1CEScent15		-.0003345	.002559	-0.13	0.896	-.0053509	.0046818
	timew1w3	0	(omitted)				
	w1dxHTN						
	Yes	.3703887	.2859432	1.30	0.196	-.1911365	.931914
w1dxHTN#c.timew1w3		-.0398775	.0600864	-0.66	0.507	-.1576464	.0778913
	timew1w3	0	(omitted)				
	w1dxDiabetes						
	preDiabetes	.3167007	.3298179	0.96	0.337	-.3305558	.9639572
	Diabetes	.240151	.3904604	0.62	0.539	-.5271347	1.007437
w1dxDiabetes#c.timew1w3		-.0363087	.0694799	-0.52	0.601	-.1724874	.0998701
	preDiabetes	.0229518	.0822554	0.28	0.780	-.1382688	.1841725
	timew1w3	0	(omitted)				

w1CVhighChol Yes		- .0002045	.3112436	-0.00	0.999	-.6130317	.6126226
w1CVhighChol#c.timew1w3 Yes		-.0106779	.0672097	-0.16	0.874	-.1424852	.1211293
timew1w3 1.w1cvdbr		0 (omitted) .4635473	.3383112	1.37	0.171	-.1999146	1.127009
w1cvdbr#c.timew1w3 1		-.1598306	.0751265	-2.13	0.033	-.3071587	-.0125024
timew1w3 invmillsmms		0 (omitted) -.0175866	.0077745	-2.26	0.024	-.0328243	-.0023488
c.timew1w3#c.invmillsmms		.0000387	.0015437	0.03	0.980	-.0029869	.0030644
timew1w3 zw1w3HCYTRAJ		0 (omitted) -.1071883	.1227307	-0.87	0.382	-.3477363	.1333597
c.timew1w3#c.zw1w3HCYTRAJ		.0589279	.0254665	2.31	0.021	.0090144	.1088414
_cons		7.68187	.6252627	12.29	0.000	6.45616	8.907579

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.6566513	.0606198	.5479606 .7869012
sd(_cons)	3.888034	.1378959	3.626932 4.167933
corr(timew1w3,_cons)	-.4759041	.0342783	-.5402663 -.4060063
sd(Residual)	1.966353	.2013638	1.608755 2.40344

```

104 .
105 .
106 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4eobs==1 || HNDID: timew1w3, cov(un)

```

Multiple-imputation estimates

Imputations	=	5
Number of obs	=	2,460

Mixed-effects ML regression

Number of groups	=	1,392
Obs per group:		
min	=	1
avg	=	1.8
max	=	2
Average RVI	=	0.0370
Largest FMI	=	0.2978

DF adjustment: Large sample

DF:	min	=	53.97
	avg	=	3114419.29
	max	=	8.27e+07

Model F test: Equal FMI

F(43, 105607.6)	=	10.07
Prob > F	=	0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0328339	.0665662	-0.49	0.622	-.1633049 .0976371
w1Agecent48	-.0147244	.0068802	-2.14	0.032	-.0282099 -.0012389
c.timew1w3#c.w1Agecent48	-.002765	.0015597	-1.77	0.076	-.005822 .0002919
timew1w3	0	(omitted)			
Sex Men	-.2801546	.1212268	-2.31	0.021	-.5177548 -.0425544
Sex#c.timew1w3 Men	-.006101	.0272423	-0.22	0.823	-.0594949 .0472929
timew1w3	0	(omitted)			
Race AfrAm	-.7262913	.1230256	-5.90	0.000	-.967421 -.4851616
Race#c.timew1w3 AfrAm	.0470396	.027792	1.69	0.091	-.0074319 .101511
timew1w3	0	(omitted)			
PovStat Below	-.0342176	.1258844	-0.27	0.786	-.2809469 .2125117
PovStat#c.timew1w3 Below	-.0459273	.0280041	-1.64	0.101	-.100815 .0089605
timew1w3	0	(omitted)			
w1edubr 2	.3683834	.2463353	1.50	0.135	-.1144681 .8512349
w1edubr 3	.4745036	.2685679	1.77	0.077	-.0519684 1.000976
w1edubr#c.timew1w3 2	-.0055394	.054908	-0.10	0.920	-.1131712 .1020924
w1edubr#c.timew1w3 3	-.0286286	.0595249	-0.48	0.631	-.1453015 .0880443
timew1w3	0	(omitted)			
w1WRATtotalcent42	.0726975	.0084432	8.61	0.000	.056149 .0892459
c.timew1w3#c.w1WRATtotalcent42	.0031954	.0019184	1.67	0.096	-.0005645 .0069554
timew1w3	0	(omitted)			
1.w1smoke	-.1437232	.1389454	-1.03	0.303	-.4183314 .130885
w1smoke#c.timew1w3 1	-.0188791	.030494	-0.62	0.536	-.0786803 .0409221
timew1w3	0	(omitted)			
1.w1currdrugs	.3428008	.1551928	2.21	0.027	.0385338 .6470678
w1currdrugs#c.timew1w3 1	-.0271831	.0357297	-0.76	0.447	-.0972251 .0428588
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	-.0053103	.0054893	-0.97	0.335	-.016147 .0055264
c.timew1w3#c.w1hei2010_total_scorecent43	.0002206	.0012392	0.18	0.859	-.0022084 .0026497

	timew1w3	0	(omitted)				
w1BMIcon30		- .0186606	.0086245	-2.16	0.030	-.0355652	-.001756
c.timew1w3#c.w1BMIcon30		.0005245	.0019188	0.27	0.785	-.0032364	.0042853
	timew1w3	0	(omitted)				
w1SRH							
2		.4214544	.1618828	2.60	0.009	.10416	.7387488
3		.3361985	.1743004	1.93	0.054	-.0054467	.6778437
w1SRH#c.timew1w3							
2		-.0286612	.0367084	-0.78	0.435	-.1006085	.0432862
3		-.002993	.0395931	-0.08	0.940	-.0805994	.0746135
	timew1w3	0	(omitted)				
w1CEScent15		-.0073698	.0056389	-1.31	0.191	-.0184223	.0036826
c.timew1w3#c.w1CEScent15		-.0004995	.0012689	-0.39	0.694	-.0029865	.0019874
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0433815	.1362039	0.32	0.750	-.2237816	.3105446
w1dxHTN#c.timew1w3							
Yes		-.0386529	.0308056	-1.25	0.210	-.0990357	.02173
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.22141	.1529858	-1.45	0.148	-.5212581	.0784382
Diabetes		-.324223	.1899757	-1.71	0.089	-.6977566	.0493106
w1dxDiabetes#c.timew1w3							
preDiabetes		.0688337	.0353325	1.95	0.051	-.000417	.1380844
Diabetes		-.0232056	.0417805	-0.56	0.579	-.1051029	.0586917
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.1479303	.1551059	0.95	0.342	-.1589927	.4548532
w1CVhighChol#c.timew1w3							
Yes		.025513	.0343911	0.74	0.458	-.0419452	.0929713
	timew1w3	0	(omitted)				
1.w1cvdbr		.0256682	.1862616	0.14	0.891	-.3477688	.3991053
w1cvdbr#c.timew1w3							
1		.0214476	.0405705	0.53	0.598	-.0587453	.1016405
	timew1w3	0	(omitted)				
invmillsmms		.0022757	.0035373	0.64	0.520	-.0046574	.0092087
c.timew1w3#c.invmillsmms		-.0007212	.0007307	-0.99	0.324	-.0021533	.000711
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0056765	.0587013	-0.10	0.923	-.120729	.1093761
c.timew1w3#c.zw1w3HCYTRAJ		-.0171195	.0130981	-1.31	0.191	-.0427913	.0085523

	<u>_cons</u>	6.587292	.2955901	22.29	0.000	6.007937	7.166646
--	--------------	-----------------	-----------------	--------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.118293	.0986582	.0230698	.6065624
sd(_cons)	1.402068	.1097376	1.202671	1.634524
corr(timew1w3,_cons)	-.081402	.2951375	-.580954	.4626962
sd(Residual)	1.352555	.098926	1.17192	1.561033

107 .

108 . 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.w1BMIcon > imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms //> c.timew1w3##c.zw1w3HCYTRAJ //> if sample4fobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0557

Largest FMI = 0.3154

DF adjustment: Large sample

DF: min = 48.34

avg = 1534068.01

max = 6.62e+07

Model F test: Equal FMI

F(43,48508.0) = 9.03

Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3						
w1Agecent48	-.020683	.1341864	-0.15	0.878	-.2837622	.2423962
c.timew1w3##c.w1Agecent48	-.0946368	.0164546	-5.75	0.000	-.1268985	-.0623751
timew1w3						
Sex Men	-.002222	.0031483	-0.71	0.480	-.0083926	.0039486
timew1w3						
Sex#c.timew1w3 Men	1.171532	.2871581	4.08	0.000	.6086966	1.734367
timew1w3						
Race AfrAm	.0018168	.0549385	0.03	0.974	-.1058613	.1094948
timew1w3						
Race#c.timew1w3 AfrAm	-1.460576	.2920654	-5.00	0.000	-2.033051	-.8881014
timew1w3						
Race#timew1w3 AfrAm	-.0135504	.0565838	-0.24	0.811	-.1244597	.0973589
timew1w3						

PovStat Below		- .4999207	.2986933	-1.67	0.094	-1.085362	.0855204
PovStat#c.timew1w3 Below		.0189737	.0564665	0.34	0.737	-.0917005	.129648
timew1w3		0	(omitted)				
w1edubr 2		-.3788605	.5789234	-0.65	0.513	-1.513631	.75591
3		.8374064	.6301566	1.33	0.184	-.3977463	2.072559
w1edubr#c.timew1w3 2		.0936492	.1109349	0.84	0.399	-.1239691	.3112674
3		.0653902	.1222185	0.54	0.593	-.1744005	.3051809
timew1w3 w1WRATtotalcent42		0	(omitted)				
		.1543071	.0197024	7.83	0.000	.1156907	.1929235
c.timew1w3#c.w1WRATtotalcent42		.0028534	.0037959	0.75	0.452	-.0045867	.0102935
timew1w3 1.w1smoke		0	(omitted)				
		-.439771	.3324117	-1.32	0.190	-1.101997	.2224554
w1smoke#c.timew1w3 1		.0229414	.062837	0.37	0.715	-.1004438	.1463266
timew1w3 1.w1currdrugs		0	(omitted)				
		.4112553	.3921593	1.05	0.296	-.3653646	1.187875
w1currdrugs#c.timew1w3 1		-.0301068	.0727398	-0.41	0.679	-.1727403	.1125266
timew1w3 w1hei2010_total_scorecent43		0	(omitted)				
		.0238818	.0133668	1.79	0.080	-.0029891	.0507527
c.timew1w3#c.w1hei2010_total_scorecent43		-.0028012	.002565	-1.09	0.275	-.0078315	.0022291
timew1w3 w1BMIcon30		0	(omitted)				
		.0140023	.0206275	0.68	0.497	-.0264578	.0544624
c.timew1w3#c.w1BMIcon30		.0013932	.0038815	0.36	0.720	-.0062149	.0090013
timew1w3		0	(omitted)				
w1SRH 2		.0583424	.3813902	0.15	0.878	-.6891963	.805881
3		.2248409	.4101831	0.55	0.584	-.5791431	1.028825
w1SRH#c.timew1w3 2		.0219489	.0736332	0.30	0.766	-.1223726	.1662704
3		-.0443212	.0787268	-0.56	0.573	-.198624	.1099817
timew1w3 w1CEScent15		0	(omitted)				
		-.0350698	.0133379	-2.63	0.009	-.061214	-.0089256
c.timew1w3#c.w1CEScent15		.0022006	.0025567	0.86	0.389	-.0028105	.0072117
timew1w3		0	(omitted)				
w1dxHTN Yes		.4060074	.3199525	1.27	0.205	-.2220394	1.034054

w1dxHTN#c.timew1w3 Yes		-.0583486	.0625797	-0.93	0.351	-.1810595	.0643623
	timew1w3		0 (omitted)				
w1dxDiabetes preDiabetes Diabetes		-.1135017	.3647735	-0.31	0.756	-.828709	.6017057
		-.0283923	.420136	-0.07	0.946	-.8519152	.7951307
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0201256	.0722387	0.28	0.781	-.1215068	.1617581
	timew1w3		0 (omitted)				
w1CVhighChol Yes		.1250791	.3681079	0.34	0.735	-.6088975	.8590556
w1CVhighChol#c.timew1w3 Yes		.0462821	.0739825	0.63	0.532	-.0998083	.1923724
	timew1w3 1.w1cvdbr		0 (omitted)				
		.2352727	.3743669	0.63	0.530	-.4993141	.9698594
w1cvdbr#c.timew1w3 1		-.0317073	.0767587	-0.41	0.680	-.1822768	.1188621
	timew1w3 invmillsmms		0 (omitted)				
		.0097115	.0089226	1.09	0.276	-.0077765	.0271995
c.timew1w3#c.invmillsmms		-.0014834	.0015875	-0.93	0.350	-.004595	.0016281
	timew1w3 zw1w3HCYTRAJ		0 (omitted)				
		-.0531005	.1384278	-0.38	0.701	-.3244143	.2182133
c.timew1w3#c.zw1w3HCYTRAJ		-.0363975	.0260206	-1.40	0.162	-.087397	.0146019
	_cons	19.10181	.6989145	27.33	0.000	17.7318	20.47182

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.2688718	.1673807	.079366	.9108698	
sd(_cons)	3.972737	.1674639	3.657705	4.314902	
corr(timew1w3,_cons)	-.1709224	.1361781	-.4198865	.1019653	
sd(Residual)	2.905569	.1734351	2.584763	3.266191	

```

109 .
110 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 || HNDID: timew1w3, cov(un)

```

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

F(43, 34918.1) = 11.47
Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0104015	.0523609	0.20	0.843	-.0922243	.1130273
w1Agecent48	-.0065001	.0063033	-1.03	0.302	-.0188559	.0058557
c.timew1w3#c.w1Agecent48	-.0036907	.0012498	-2.95	0.003	-.0061404	-.0012409
timew1w3	0 (omitted)					
Sex						
Men	.1991321	.1108169	1.80	0.072	-.0180758	.41634
Sex#c.timew1w3						
Men	-.0392637	.0217693	-1.80	0.071	-.081932	.0034046
timew1w3	0 (omitted)					
Race						
AfrAm	-.3020641	.1130526	-2.67	0.008	-.523716	-.0804123
Race#c.timew1w3						
AfrAm	-.0119164	.0220931	-0.54	0.590	-.0552181	.0313853
timew1w3	0 (omitted)					
PovStat						
Below	-.1074293	.1146259	-0.94	0.349	-.3321004	.1172419
PovStat#c.timew1w3						
Below	-.0184972	.0221897	-0.83	0.405	-.0619887	.0249942
timew1w3	0 (omitted)					
w1edubr						
2	-.1066258	.2228688	-0.48	0.632	-.5434483	.3301968
3	.1775627	.2431302	0.73	0.465	-.29899	.6541154
w1edubr#c.timew1w3						
2	-.0000246	.0425558	-0.00	1.000	-.0834327	.0833834

	3		- .0204824	.0467691	-0.44	0.661	- .11215	.0711851
		timew1w3	0	(omitted)				
	w1WRATtotalcent42		.1117025	.0076601	14.58	0.000	.0966869	.126718
c.timew1w3#c.w1WRATtotalcent42			.0001159	.0014991	0.08	0.938	-.0028222	.0030541
		timew1w3	0	(omitted)				
	1.w1smoke		.1749455	.1274706	1.37	0.174	-.0788027	.4286937
	w1smoke#c.timew1w3							
	1		-.0114062	.0248039	-0.46	0.646	-.060111	.0372985
		timew1w3	0	(omitted)				
	1.w1currdrugs		.3720839	.1769758	2.10	0.046	.0067972	.7373706
	w1currdrugs#c.timew1w3							
	1		-.0049921	.0301891	-0.17	0.869	-.0644188	.0544346
		timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43		.0009583	.0047428	0.20	0.840	-.0083977	.0103142
c.timew1w3#c.w1hei2010_total_scorecent43			.0001849	.0010896	0.17	0.866	-.0019711	.0023409
		timew1w3	0	(omitted)				
	w1BMIcon30		-.0084605	.0079795	-1.06	0.289	-.0241148	.0071939
c.timew1w3#c.w1BMIcon30			-.0017027	.001543	-1.10	0.270	-.0047273	.0013219
		timew1w3	0	(omitted)				
	w1SRH							
	2		-.002341	.1466289	-0.02	0.987	-.2897298	.2850478
	3		.0427498	.1585969	0.27	0.788	-.2681399	.3536395
	w1SRH#c.timew1w3							
	2		.0235484	.0292332	0.81	0.421	-.0337477	.0808445
	3		.0169661	.0315394	0.54	0.591	-.0448539	.078786
		timew1w3	0	(omitted)				
	w1CEScent15							
	timew1w3		-.0032693	.0051474	-0.64	0.525	-.0133593	.0068208
c.timew1w3#c.w1CEScent15			-.0000394	.0010248	-0.04	0.969	-.0020484	.0019695
		timew1w3	0	(omitted)				
	w1dxHTN							
	Yes		.053554	.1210996	0.44	0.658	-.1838299	.2909378
	w1dxHTN#c.timew1w3							
	Yes		.0005699	.0248372	0.02	0.982	-.0481295	.0492693
		timew1w3	0	(omitted)				
	w1dxDiabetes							
	preDiabetes		-.136644	.1405697	-0.97	0.331	-.4122485	.1389605
	Diabetes		-.1355035	.1698282	-0.80	0.425	-.4691614	.1981544
	w1dxDiabetes#c.timew1w3							
	preDiabetes		.0344313	.0281634	1.22	0.222	-.0207703	.0896329
	Diabetes		.0111152	.0347991	0.32	0.749	-.0571899	.0794203
		timew1w3	0	(omitted)				

w1CVhighChol Yes	-.0767165	.135938	-0.56	0.573	-.3454479	.1920149
w1CVhighChol#c.timew1w3 Yes	.0090675	.0281546	0.32	0.748	-.0462665	.0644016
timew1w3 1.w1cvdbr	0 (omitted) -.1220967	.1453433	-0.84	0.401	-.4073137	.1631204
w1cvdbr#c.timew1w3 1	-.00232	.0300424	-0.08	0.938	-.061214	.056574
timew1w3 invmillsmms	0 (omitted) .0057404	.0034174	1.68	0.093	-.0009577	.0124385
c.timew1w3#c.invmillsmms	-.0005144	.000617	-0.83	0.404	-.0017237	.0006949
timew1w3 zw1w3HCYTRAJ	0 (omitted) -.0176743	.0531411	-0.33	0.739	-.1218292	.0864806
c.timew1w3#c.zw1w3HCYTRAJ	-.0139592	.0102516	-1.36	0.173	-.0340519	.0061335
_cons	7.262148	.2705253	26.84	0.000	6.731842	7.792453

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0174605	.	.
sd(_cons)	1.475297	.	.
corr(timew1w3,_cons)	.9999775	.	.
sd(Residual)	1.189834	.	.

```

111 .
112 . 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 ///
> if sample4hobs==1 || HNDID: timew1w3, cov(un)

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( 43,27528.4) = 16.11
Prob > F = 0.0000

```

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.029225	.0550662	-0.53	0.596	-.1371863 .0787363
w1Agecent48	-.0152356	.0061488	-2.48	0.013	-.0272896 -.0031816
c.timew1w3#c.w1Agecent48	-.0016047	.0012904	-1.24	0.214	-.0041339 .0009245
timew1w3	0	(omitted)			
Sex					
Men	-.0714093	.1075309	-0.66	0.507	-.2821708 .1393523
Sex#c.timew1w3					
Men	-.0247748	.0225418	-1.10	0.272	-.0689561 .0194065
timew1w3	0	(omitted)			
Race					
AfrAm	-.5615465	.1079682	-5.20	0.000	-.7731611 -.349932
Race#c.timew1w3					
AfrAm	-.0237777	.0229033	-1.04	0.299	-.0686678 .0211124
timew1w3	0	(omitted)			
PovStat					
Below	-.094495	.1114923	-0.85	0.397	-.3130318 .1240418
PovStat#c.timew1w3					
Below	-.0021856	.0230177	-0.09	0.924	-.0473001 .0429289
timew1w3	0	(omitted)			
w1edubr					
2	-.2199914	.2158465	-1.02	0.308	-.6430446 .2030618
3	.1158869	.2356309	0.49	0.623	-.3459479 .5777218
w1edubr#c.timew1w3					
2	.0583625	.0440963	1.32	0.186	-.0280649 .1447899
3	.0302723	.0483716	0.63	0.531	-.0645345 .1250791
timew1w3	0	(omitted)			
w1WRATtotalcent42	.1220821	.0074024	16.49	0.000	.1075736 .1365907
c.timew1w3#c.w1WRATtotalcent42	-.0018643	.0015625	-1.19	0.233	-.004927 .0011985
timew1w3	0	(omitted)			
1.w1smoke	-.0259116	.1267141	-0.20	0.839	-.2784185 .2265954
w1smoke#c.timew1w3					
1	.0042878	.028069	0.15	0.879	-.0516029 .0601785
timew1w3	0	(omitted)			
1.w1currdrugs	.1357588	.1472015	0.92	0.358	-.1550575 .4265751
w1currdrugs#c.timew1w3					
1	.0229679	.0303919	0.76	0.450	-.0366803 .082616
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	-.000834	.005153	-0.16	0.872	-.0111853 .0095174
c.timew1w3#c.w1hei2010_total_scorecent43	.0010857	.0011842	0.92	0.363	-.0012829 .0034543

	timew1w3	0	(omitted)				
w1BMIcon30		- .0031771	.0077087	-0.41	0.680	- .0182938	.0119396
c.timew1w3#c.w1BMIcon30		- .0028911	.00161	-1.80	0.073	- .0060476	.0002654
	timew1w3	0	(omitted)				
w1SRH							
2		.0005932	.143569	0.00	0.997	- .2808338	.2820202
3		.1129126	.1581751	0.71	0.476	- .1975585	.4233838
w1SRH#c.timew1w3							
2		- .0222359	.0302452	-0.74	0.462	- .0815165	.0370448
3		- .0248351	.0326954	-0.76	0.448	- .0889238	.0392536
	timew1w3	0	(omitted)				
w1CEScent15		- .0043956	.0049652	-0.89	0.376	- .0141275	.0053362
c.timew1w3#c.w1CEScent15		- .0007848	.0010489	-0.75	0.454	- .0028406	.0012711
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		- .0552336	.1191746	-0.46	0.643	- .2889249	.1784578
w1dxHTN#c.timew1w3							
Yes		.0090029	.0255726	0.35	0.725	- .0411277	.0591335
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.2260292	.1357779	1.66	0.096	- .0401048	.4921632
Diabetes		-.1193017	.1729577	-0.69	0.491	- .461074	.2224706
w1dxDiabetes#c.timew1w3							
preDiabetes		.0050908	.0292171	0.17	0.862	- .052176	.0623577
Diabetes		-.0143608	.0356598	-0.40	0.687	- .0843057	.0555842
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		- .0367615	.1292431	-0.28	0.776	- .2907587	.2172356
w1CVhighChol#c.timew1w3							
Yes		.0244661	.0306386	0.80	0.426	- .0361461	.0850783
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0119686	.1936827	-0.06	0.951	- .4209679	.3970306
w1cvdbr#c.timew1w3							
1		.027673	.035148	0.79	0.434	- .0424175	.0977634
	timew1w3	0	(omitted)				
invmillsmms		.0051998	.0033093	1.57	0.116	- .0012863	.011686
c.timew1w3#c.invmillsmms		- .0004236	.0006389	-0.66	0.507	- .0016759	.0008287
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0351178	.0515644	-0.68	0.496	- .1361822	.0659466
c.timew1w3#c.zw1w3HCYTRAJ		.0017524	.0105881	0.17	0.869	- .0189998	.0225046

	<u>_cons</u>	5.963889	.265987	22.42	0.000	5.442221	6.485557
--	--------------	-----------------	----------------	--------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0048914	.	.
sd(_cons)	1.35323	.	.
corr(timew1w3,_cons)	-.999993	.	.
sd(Residual)	1.235144	.	.

113 .
 114 . 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.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4iobs==1 || HNDID: timew1w3, cov(un)

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	=	0.0499
Largest FMI	=	0.2716
DF adjustment: Large sample	DF:	min = 64.34 avg = 1341759.19 max = 3.37e+07
Model F test: Equal FMI	F(43, 59586.6)	= 5.67 Prob > F = 0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0609355	.042521	-1.43	0.152	-.1443054 .0224345
w1Agecent48	-.0039883	.0037694	-1.06	0.290	-.0113762 .0033995
c.timew1w3##c.w1Agecent48	-.0012865	.0009933	-1.30	0.195	-.0032335 .0006605
timew1w3	0	(omitted)			
Sex					
Men	.0850302	.0663091	1.28	0.200	-.0449335 .2149938
Sex##c.timew1w3					
Men	.0111464	.0173183	0.64	0.520	-.0227971 .0450899
timew1w3	0	(omitted)			
Race					
AfrAm	-.3464408	.0669579	-5.17	0.000	-.4776761 -.2152056
Race##c.timew1w3					
AfrAm	.0230957	.0176136	1.31	0.190	-.0114268 .0576182
timew1w3	0	(omitted)			

PovStat Below	.0825682	.0689871	1.20	0.231	-.0526443	.2177807
PovStat#c.timew1w3 Below	-.0039288	.0176669	-0.22	0.824	-.0385554	.0306978
timew1w3	0 (omitted)					
w1edubr 2	-.0287876	.1370099	-0.21	0.834	-.2974038	.2398285
3	.1616871	.1492186	1.08	0.279	-.1308496	.4542239
w1edubr#c.timew1w3 2	.0458059	.0345324	1.33	0.185	-.0218856	.1134973
3	.0560976	.0378722	1.48	0.139	-.0181407	.1303358
timew1w3 w1WRATtotalcent42	0 (omitted)					
	.0271058	.0046353	5.85	0.000	.0180197	.0361918
c.timew1w3#c.w1WRATtotalcent42	-.0010241	.0012075	-0.85	0.396	-.0033916	.0013433
timew1w3 1.w1smoke	0 (omitted)					
	-.0282187	.075435	-0.37	0.709	-.1766489	.1202114
w1smoke#c.timew1w3 1	.0103808	.019972	0.52	0.604	-.0289047	.0496664
timew1w3 1.w1currdrugs	0 (omitted)					
	.3240658	.094856	3.42	0.001	.1363019	.5118296
w1currdrugs#c.timew1w3 1	-.0614992	.0226746	-2.71	0.007	-.1059496	-.0170488
timew1w3 w1hei2010_total_scorecent43	0 (omitted)					
	.0024473	.0030282	0.81	0.420	-.0035113	.0084058
c.timew1w3#c.w1hei2010_total_scorecent43	.0005322	.0008424	0.63	0.528	-.0011292	.0021937
timew1w3 w1BMIcon30	0 (omitted)					
	-.004922	.0047413	-1.04	0.299	-.0142157	.0043718
c.timew1w3#c.w1BMIcon30	.0011485	.0012171	0.94	0.345	-.0012369	.0035339
timew1w3	0 (omitted)					
w1SRH 2	.1467027	.0885962	1.66	0.098	-.0269445	.3203499
3	-.0242312	.0953354	-0.25	0.799	-.2110889	.1626264
w1SRH#c.timew1w3 2	.0061579	.0231931	0.27	0.791	-.0392999	.0516157
3	.017951	.0248669	0.72	0.470	-.0307885	.0666905
timew1w3 w1CEScent15	0 (omitted)					
	-.0074653	.0031099	-2.40	0.016	-.013561	-.0013695
c.timew1w3#c.w1CEScent15	.0007901	.0008109	0.97	0.330	-.0007994	.0023796
timew1w3	0 (omitted)					
w1dxHTN Yes	.0692331	.0755296	0.92	0.360	-.0789737	.21744

w1dxHTN#c.timew1w3						
Yes		-.0382465	.0195974	-1.95	0.051	-.0766664
timew1w3		0	(omitted)			
w1dxDiabetes						
preDiabetes		-.0560663	.0855405	-0.66	0.512	-.2237717
Diabetes		.0548599	.111068	0.49	0.623	-.1657502
w1dxDiabetes#c.timew1w3						
preDiabetes		.0178894	.0224133	0.80	0.425	-.0260452
Diabetes		-.0452467	.0276478	-1.64	0.102	-.0995496
timew1w3		0	(omitted)			
w1CVhighChol						
Yes		-.0551146	.0902426	-0.61	0.544	-.2353766
w1CVhighChol#c.timew1w3						
Yes		.0072966	.0223937	0.33	0.745	-.0367351
timew1w3		0	(omitted)			
1.w1cvdbr		-.0847243	.092305	-0.92	0.359	-.2660252
w1cvdbr#c.timew1w3						
1		.0009361	.0258138	0.04	0.971	-.0501047
timew1w3		0	(omitted)			
invmillsmms		.0009538	.0020784	0.46	0.646	-.0031197
c.timew1w3#c.invmillsmms						
		-.0002884	.0004977	-0.58	0.562	-.0012639
timew1w3		0	(omitted)			
zw1w3HCYTRAJ		-.0379575	.0320486	-1.18	0.236	-.1007716
c.timew1w3#c.zw1w3HCYTRAJ						
		-.0064824	.0081276	-0.80	0.425	-.0224122
_cons		8.778538	.1649648	53.21	0.000	8.455145
						9.101932

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0481783	.0769992	.0021011	1.104726
sd(_cons)	.6297472	.0742026	.4998845	.7933464
corr(timew1w3,_cons)	-.1034055	.4703143	-.7761209	.6793939
sd(Residual)	.9567581	.0450976	.8723285	1.049359

```

115 .
116 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> 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 = 0.0456
    Largest FMI = 0.3124
    DF: min = 49.23
        avg = 9727254.90
        max = 2.09e+08
    F( 43, 73127.4) = 11.88
    Prob > F = 0.0000

```

	LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0086144	.0111541	0.77	0.440	.0132484	.0304772
w1Agecent48	.0113123	.0011557	9.79	0.000	.0090471	.0135776
c.timew1w3#c.w1Agecent48	.0004061	.0002595	1.56	0.118	-.0001026	.0009147
timew1w3	0	(omitted)				
Sex						
Men	.0949821	.0203789	4.66	0.000	.0550402	.1349241
Sex#c.timew1w3						
Men	.0018996	.0045439	0.42	0.676	-.0070063	.0108054
timew1w3	0	(omitted)				
Race						
AfrAm	.1634377	.0205646	7.95	0.000	.1231319	.2037436
Race#c.timew1w3						
AfrAm	-.0011582	.0046137	-0.25	0.802	-.0102009	.0078844
timew1w3	0	(omitted)				
PovStat						
Below	.0464297	.0212002	2.19	0.029	.0048779	.0879815
PovStat#c.timew1w3						
Below	.0003731	.0046369	0.08	0.936	-.008715	.0094612
timew1w3	0	(omitted)				
w1edubr						
2	-.060468	.042376	-1.43	0.154	-.1435563	.0226203
3	-.0422359	.0462253	-0.91	0.361	-.1328873	.0484154
w1edubr#c.timew1w3						
2	-.0069018	.0091095	-0.76	0.449	-.0247582	.0109547

	3		- .0104361	.0099943	-1.04	0.296	-.0300279	.0091557
		timew1w3	0	(omitted)				
	w1WRATTtotalcent42		-.0075043	.0014338	-5.23	0.000	-.0103145	-.004694
c.timew1w3#c.w1WRATTtotalcent42			-.0004188	.0003186	-1.31	0.189	-.0010432	.0002056
		timew1w3	0	(omitted)				
	1.w1smoke		-.001864	.0233932	-0.08	0.937	-.0480924	.0443644
	w1smoke#c.timew1w3							
	1		.002054	.0050853	0.40	0.686	-.0079165	.0120246
		timew1w3	0	(omitted)				
	1.w1currdrugs		.0411222	.027341	1.50	0.133	-.0126542	.0948986
	w1currdrugs#c.timew1w3							
	1		-.0050886	.0061533	-0.83	0.409	-.017169	.0069918
		timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43		.0001491	.000992	0.15	0.881	-.0018409	.0021392
c.timew1w3#c.w1hei2010_total_scorecent43			.0001531	.0002244	0.68	0.496	-.0002896	.0005958
		timew1w3	0	(omitted)				
	w1BMIcon30		.0019448	.0014674	1.33	0.185	-.0009326	.0048221
c.timew1w3#c.w1BMIcon30			-.0004564	.0003187	-1.43	0.152	-.0010811	.0001683
		timew1w3	0	(omitted)				
	w1SRH							
	2		-.0806129	.0273053	-2.95	0.003	-.1341303	-.0270955
	3		-.0567441	.0293645	-1.93	0.053	-.1142981	.0008099
	w1SRH#c.timew1w3							
	2		.0010943	.0061655	0.18	0.859	-.0109901	.0131787
	3		-.0027737	.0065992	-0.42	0.674	-.0157079	.0101605
		timew1w3	0	(omitted)				
	w1CEScent15		.0017232	.0009536	1.81	0.071	-.0001458	.0035922
c.timew1w3#c.w1CEScent15			.0003282	.0002125	1.54	0.122	-.0000882	.0007447
		timew1w3	0	(omitted)				
	w1dxHTN							
	Yes		-.009775	.023446	-0.42	0.677	-.0558594	.0363094
	w1dxHTN#c.timew1w3							
	Yes		.0048533	.005182	0.94	0.349	-.0053064	.0150131
		timew1w3	0	(omitted)				
	w1dxDiabetes							
	preDiabetes		.0168731	.026556	0.64	0.525	-.0352215	.0689676
	Diabetes		.0308343	.0334203	0.92	0.358	-.0353254	.0969939
	w1dxDiabetes#c.timew1w3							
	preDiabetes		.0030508	.0058967	0.52	0.605	-.0085069	.0146085
	Diabetes		-.0019131	.0070449	-0.27	0.786	-.015721	.0118948
		timew1w3	0	(omitted)				

w1CVhighChol Yes		- .027747	.0278924	-0.99	0.325	-.0837922	.0282983
w1CVhighChol#c.timew1w3 Yes		.0064262	.0058588	1.10	0.273	-.0050807	.0179331
timew1w3 1.w1cvdbr		0 <i>(omitted)</i>	.0144543	.0278824	0.52	0.604	-.0403278
w1cvdbr#c.timew1w3 1		.0036328	.0066367	0.55	0.585	-.0094454	.0167111
timew1w3 invmillsmms		0 <i>(omitted)</i>	.000252	.0006256	0.40	0.687	-.0009741
c.timew1w3#c.invmillsmms		-.0001373	.0001282	-1.07	0.284	-.0003885	.000114
timew1w3 zw1w3HCYTRAJ		0 <i>(omitted)</i>	.0285761	.0098709	2.89	0.004	.0092294
c.timew1w3#c.zw1w3HCYTRAJ		-.0017752	.0021423	-0.83	0.407	-.0059741	.0024237
_cons		3.408663	.0514385	66.27	0.000	3.307779	3.509546

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0206583	.0064552	.0111974
sd(_cons)	.2509408	.0077681	.2361684
sd(Residual)	.2384541	.0076223	.2239729
			.2538715

117 .

```
118 . 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##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4kobs==1 || HNDID: timew1w3, cov(un)
```

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
DF adjustment: Large sample	Average RVI	=	0.0486
	Largest FMI	=	0.2646
	DF: min	=	67.64
	avg	=	1229853.36
	max	=	4.36e+07
Model F test: Equal FMI	F(43, 63331.5)	=	19.72
	Prob > F	=	0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0116402	.0174207	0.67	0.504	-.0225268 .0458072
w1Agecent48	.0156386	.0018984	8.24	0.000	.0119178 .0193594
c.timew1w3#c.w1Agecent48	.000679	.0003912	1.74	0.083	-.0000877 .0014457
timew1w3	0	(omitted)			
Sex Men	.0674351	.0335768	2.01	0.045	.001624 .1332463
Sex#c.timew1w3 Men	-.0032171	.0068736	-0.47	0.640	-.0166899 .0102556
timew1w3	0	(omitted)			
Race AfrAm	.335015	.0338548	9.90	0.000	.2686604 .4013696
Race#c.timew1w3 AfrAm	-.0010089	.0070059	-0.14	0.885	-.0147403 .0127225
timew1w3	0	(omitted)			
PovStat Below	.0990405	.0348881	2.84	0.005	.0306606 .1674205
PovStat#c.timew1w3 Below	.0002245	.0070922	0.03	0.975	-.0136764 .0141254
timew1w3	0	(omitted)			
w1edubr 2	-.1163584	.0686629	-1.69	0.090	-.250938 .0182212
3	-.2030189	.0742636	-2.73	0.006	-.348573 -.0574648
w1edubr#c.timew1w3 2	-.0060416	.0141289	-0.43	0.669	-.0337383 .021655
3	-.0063721	.0153056	-0.42	0.677	-.0363743 .02363
timew1w3	0	(omitted)			
w1WRATtotalcent42	-.024595	.0023825	-10.32	0.000	-.0292651 -.019925
c.timew1w3#c.w1WRATtotalcent42	-.0001083	.0005015	-0.22	0.829	-.0010913 .0008747
timew1w3	0	(omitted)			
1.w1smoke	-.0092708	.0389892	-0.24	0.813	-.0866329 .0680913
w1smoke#c.timew1w3 1	.0073774	.0082948	0.89	0.375	-.0090089 .0237637
timew1w3	0	(omitted)			
1.w1currdrugs	-.0317806	.0471977	-0.67	0.502	-.1254634 .0619022
w1currdrugs#c.timew1w3 1	-.0030506	.0097687	-0.31	0.755	-.0223311 .0162299
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	.0009786	.0014912	0.66	0.513	-.0019697 .003927
c.timew1w3#c.w1hei2010_total_scorecent43	-.000143	.0003624	-0.39	0.694	-.0008663 .0005803

	timew1w3	0	(omitted)				
w1BMIcon30		- .0007608	.0023654	-0.32	0.748	- .0053969	.0038753
c.timew1w3#c.w1BMIcon30		- .0005709	.0004846	-1.18	0.239	- .0015208	.000379
	timew1w3	0	(omitted)				
w1SRH							
2		-.1333841	.0452238	-2.95	0.003	- .2220308	- .0447375
3		-.0737406	.0487683	-1.51	0.131	- .1693467	.0218656
w1SRH#c.timew1w3							
2		.0022301	.0094788	0.24	0.814	- .0163494	.0208097
3		-.0026239	.0102907	-0.25	0.799	- .0228006	.0175529
	timew1w3	0	(omitted)				
w1CEScent15		.007156	.0016101	4.44	0.000	.0039965	.0103156
c.timew1w3#c.w1CEScent15		- .0000859	.0003266	-0.26	0.793	- .0007261	.0005543
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0306945	.0373118	0.82	0.411	- .0424894	.1038784
w1dxHTN#c.timew1w3							
Yes		-.0033475	.0077205	-0.43	0.665	- .0184794	.0117845
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.0772783	.04284	1.80	0.071	- .0067139	.1612704
Diabetes		.1055814	.0522933	2.02	0.044	.0027098	.2084531
w1dxDiabetes#c.timew1w3							
preDiabetes		-.012177	.0088767	-1.37	0.170	- .0295751	.0052211
Diabetes		.0003783	.0109543	0.03	0.972	- .021105	.0218616
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0084426	.0404365	-0.21	0.835	- .0879179	.0710326
w1CVhighChol#c.timew1w3							
Yes		-.002128	.0085024	-0.25	0.802	- .0187924	.0145365
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0630937	.0444539	-1.42	0.156	- .1502785	.0240911
w1cvdbr#c.timew1w3							
1		.0160735	.0094195	1.71	0.088	- .0023923	.0345392
	timew1w3	0	(omitted)				
invmillsmms		-.0026378	.0010271	-2.57	0.010	- .0046509	- .0006247
c.timew1w3#c.invmillsmms		-.0001941	.0004669	-0.42	0.678	- .0011091	.0007209
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0120065	.0162582	0.74	0.460	- .0198591	.043872
c.timew1w3#c.zw1w3HCYTRAJ		.0063858	.0032446	1.97	0.049	.0000264	.0127451

_cons	4.550894	.0837716	54.33	0.000	4.386659	4.71513
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0619572	.0128542	.0412549	.0930482
sd(_cons)	.4829854	.0217182	.4422368	.5274886
corr(timew1w3,_cons)	-.4750157	.0466174	-.5611567	-.3786952
sd(Residual)	.297515	.0282163	.2470423	.3582998

```

119 .
120 .
121 . save, replace
      file finaldata_imputed_FINAL.dta saved

122 .
123 . *****TABLE 3: HOMOCYSTEINE TRAJECTORY VS. COGNITIVE CHANGE OVER TIME: WOMEN*****
124 .
125 .
126 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
127 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,534
Number of groups = 812
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0000
Largest FMI = 0.0000
DF: min = 2.97e+61
        avg = 2.78e+63
        max =
F( 11, 1.1e+66) = 12.54
Prob > F = 0.0000

```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0238197	.0217738	-1.09	0.274	-.0664956 .0188562
w1Agecent48	-.020944	.0067387	-3.11	0.002	-.0341516 -.0077365
c.timew1w3#c.w1Agecent48	-.0031207	.0013483	-2.31	0.021	-.0057634 -.000478
timew1w3	0	(omitted)			
Sex					
Women	0	(omitted)			
Sex#c.timew1w3					
Women	0	(omitted)			
timew1w3	0	(omitted)			
Race					

AfrAm	-.8937923	.1296051	-6.90	0.000	-1.147814	-.6397709
Race#c.timew1w3						
AfrAm	.0345077	.0259229	1.33	0.183	-.0163004	.0853157
timew1w3		0 (omitted)				
PovStat						
Below	-.4547519	.1325726	-3.43	0.001	-.7145895	-.1949143
PovStat#c.timew1w3						
Below	-.0300512	.0259093	-1.16	0.246	-.0808324	.0207301
timew1w3		0 (omitted)				
invmillsmms	.0115008	.0034165	3.37	0.001	.0048046	.0181971
c.timew1w3#c.invmillsmms	-.001939	.0006161	-3.15	0.002	-.0031466	-.0007314
timew1w3		0 (omitted)				
zw1w3HCYTRAJ	.0057405	.0832295	0.07	0.945	-.1573863	.1688673
c.timew1w3#c.zw1w3HCYTRAJ	-.000392	.0160913	-0.02	0.981	-.0319303	.0311462
_cons	28.67906	.1050222	273.08	0.000	28.47322	28.8849

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.075827	.0165121	.0494841	.1161935
sd(_cons)	1.41528	.0598752	1.302661	1.537636
corr(timew1w3,_cons)	-.9999985	.0005288	-1	1
sd(Residual)	1.11396	.031252	1.054361	1.176928

```

128 .
129 .
130 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,534
Number of groups = 812
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI = .
    Largest FMI = .
DF: min = 0.00
    avg = .
    max = .
F( 11, .) = 14.08
Prob > F = 0.0000

```

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.3187125	.1862818	-1.71	0.087	-.6838182 .0463932
w1Agecent48	-.1665125	.052711	-3.16	0.002	-.2698243 -.0632008
c.timew1w3#c.w1Agecent48	-.0266248	.0115212	-2.31	0.021	-.049206 -.0040436
timew1w3	0 (omitted)				
Sex Women	0 (omitted)				
Sex#c.timew1w3 Women	0 (omitted)				
timew1w3	0 (omitted)				
Race AfrAm	-8.039717	1.013791	-7.93	0.000	-10.02671 -6.052724
Race#c.timew1w3 AfrAm	.3116677	.2214907	1.41	0.159	-.1224461 .7457816
timew1w3	0 (omitted)				
PovStat Below	-3.550221	1.037394	-3.42	0.001	-5.583476 -1.516966
PovStat#c.timew1w3 Below	-.2743608	.2212248	-1.24	0.215	-.7079535 .1592319
timew1w3 invmillsmms	0 (omitted) .0661279	.0267368	2.47	0.013	.0137247 .1185311
c.timew1w3#c.invmillsmms	-.0092808	.0052523	-1.77	0.077	-.019575 .0010135
timew1w3 zw1w3HCYTRAJ	0 (omitted) -.0872568	.6515249	-0.13	0.893	-1.364222 1.189709
c.timew1w3#c.zw1w3HCYTRAJ	.0174846	.1373201	0.13	0.899	-.2516579 .2866271
_cons	84.14432	.8209614	102.49	0.000	82.53527 85.75338

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.435004	.	.
sd(_cons)	10.27693	.	.
corr(timew1w3,_cons)	-1	3.45e-10	-1
sd(Residual)	9.645094	.	.

```

131 .
132 .
133 .
134 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4bobs==1 & Sex==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =      5
Number of obs    = 1,429

Group variable: HNDID
Number of groups  =     813
Obs per group:
min =          1
avg =        1.8
max =          2
Average RVI      =  0.0000
Largest FMI      =  0.0000
DF: min          = 2.52e+60
      avg          = 1.10e+63
      max          =
Model F test: Equal FMI
F( 11, 5.0e+62) =   61.64
Prob > F          = 0.0000

```

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.209737	.0844178	-14.33	0.000	-1.375192 -1.044281
w1Agecent48	-.1541266	.0251457	-6.13	0.000	-.2034112 -.104842
c.timew1w3#c.w1Agecent48	-.0036529	.0050003	-0.73	0.465	-.0134533 .0061476
timew1w3	0	(omitted)			
Sex					
Women	0	(omitted)			
Sex#c.timew1w3					
Women	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-3.410262	.4843526	-7.04	0.000	-4.359576 -2.460949
Race#c.timew1w3					
AfrAm	.1191985	.0969877	1.23	0.219	-.0708939 .3092908
timew1w3	0	(omitted)			
PovStat					
Below	-1.973943	.4877996	-4.05	0.000	-2.930013 -1.017874
PovStat#c.timew1w3					
Below	.0867695	.0947773	0.92	0.360	-.0989906 .2725297
timew1w3	0	(omitted)			
invmillsmms	.0266639	.0120072	2.22	0.026	.0031303 .0501976
c.timew1w3#c.invmillsmms	.0006872	.0021215	0.32	0.746	-.0034708 .0048453
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.8365035	.3085105	2.71	0.007	.2318341 1.441173

c.timew1w3#c.zw1w3HCYTRAJ	-.0905378	.0605805	-1.49	0.135	-.2092734	.0281977
_cons	28.71669	.4011607	71.58	0.000	27.93043	29.50295

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3140948	.1624704	.1139629	.8656813
sd(_cons)	5.072106	.1800412	4.731227	5.437545
sd(Residual)	3.783168	.180238	3.445899	4.153447

135 .
 136 .
 137 .
 138 . mi estimate: mixed CVLfr1 c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4cobs==1 & Sex==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5		
Number of obs	=	1,360		
Group variable: HNDID	Number of groups	=	803	
	Obs per group:			
	min	=	1	
	avg	=	1.7	
	max	=	2	
	Average RVI	=	0.0000	
	Largest FMI	=	0.0000	
DF adjustment: Large sample	DF:	min	=	1.96e+60
		avg	=	6.42e+66
		max	=	.
Model F test: Equal FMI	F(11, 1.2e+63)	=	39.99
	Prob > F		=	0.0000

CVLfr1	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.3770999	.0405705	-9.29	0.000	-.4566167 -.2975832
w1Agecent48	-.0757557	.0118788	-6.38	0.000	-.0990377 -.0524736
c.timew1w3#c.w1Agecent48	-.0023208	.0023999	-0.97	0.334	-.0070247 .002383
timew1w3		0 (omitted)			
Sex					
Women		0 (omitted)			
Sex#c.timew1w3					
Women		0 (omitted)			
timew1w3		0 (omitted)			
Race					
AfrAm	-1.810351	.2276168	-7.95	0.000	-2.256472 -1.36423
Race#c.timew1w3					
AfrAm	.0206943	.0461468	0.45	0.654	-.0697517 .1111404
timew1w3		0 (omitted)			

PovStat Below	-.7594449	.2291589	-3.31	0.001	-1.208588	-.3103016
PovStat#c.timew1w3 Below	-.0065305	.0449651	-0.15	0.885	-.0946604	.0815995
timew1w3 invmillsmms	0 .0112743	(omitted) .005581	2.02	0.043	.0003358	.0222128
c.timew1w3#c.invmillsmms	.0000195	.0009693	0.02	0.984	-.0018803	.0019192
timew1w3 zw1w3HCYTRAJ	0 .5160491	(omitted) .1459406	3.54	0.000	.2300108	.8020875
c.timew1w3#c.zw1w3HCYTRAJ	-.0517012	.0293724	-1.76	0.078	-.1092701	.0058676
_cons	9.262992	.1892563	48.94	0.000	8.892057	9.633928

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000565	.0147456	3.1e-227	1.0e+218
sd(_cons)	2.325151	.0847708	2.164801	2.497379
sd(Residual)	1.800714	.0553337	1.695464	1.912499

```

139 .
140 .
141 .
142 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4dobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,591
Number of groups = 823
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0000
Largest FMI = 0.0000
DF: min = 2.74e+60
        avg = 8.30e+63
        max = .
F( 11, 4.2e+66) = 27.05
Prob > F = 0.0000

```

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.2524706	.0564323	4.47	0.000	.1418654 .3630759
w1Agecent48	.1227924	.0174165	7.05	0.000	.0886565 .1569282
c.timew1w3#c.w1Agecent48	.0059518	.0035229	1.69	0.091	-.000953 .0128565
timew1w3	0	(omitted)			
Sex Women	0	(omitted)			
Sex#c.timew1w3 Women	0	(omitted)			
timew1w3	0	(omitted)			
Race AfrAm	1.476187	.3336889	4.42	0.000	.8221688 2.130205
Race#c.timew1w3 AfrAm	.1626412	.0677047	2.40	0.016	.0299426 .2953399
timew1w3	0	(omitted)			
PovStat Below	1.462546	.3414365	4.28	0.000	.7933432 2.13175
PovStat#c.timew1w3 Below	.0557339	.0682077	0.82	0.414	-.0779507 .1894185
timew1w3 invmillsmms	0	(omitted)			
	-.0220676	.0088205	-2.50	0.012	-.0393555 -.0047797
c.timew1w3#c.invmillsmms	-.000334	.0016651	-0.20	0.841	-.0035975 .0029296
timew1w3 zw1w3HCYTRAJ	0	(omitted)			
	-.0877744	.2140339	-0.41	0.682	-.5072732 .3317243
c.timew1w3#c.zw1w3HCYTRAJ	.022978	.0425049	0.54	0.589	-.06033 .1062859
_cons	5.375529	.271129	19.83	0.000	4.844126 5.906932

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.6460911	.0899238	.4918384 .8487212
sd(_cons)	4.15203	.1893661	3.796985 4.540275
corr(timew1w3,_cons)	-.4302204	.050396	-.5236648 -.3265471
sd(Residual)	2.094154	.2775376	1.615099 2.715302

```

143 .
144 .
145 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4eobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =      5
Number of obs    =  1,439

Group variable: HNDID
Number of groups =     812
Obs per group:
min =          1
avg =        1.8
max =          2
Average RVI      =  0.0000
Largest FMI      =  0.0000
DF: min = 7.92e+56
      avg = 1.41e+63
      max =
Model F test: Equal FMI
F( 11, 2.9e+66) =   10.96
Prob > F = 0.0000

```

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0735379	.0285199	-2.58	0.010	-.1294358 -.01764
w1Agecent48	-.0261173	.0082344	-3.17	0.002	-.0422564 -.0099781
c.timew1w3#c.w1Agecent48	-.0017139	.0017452	-0.98	0.326	-.0051344 .0017067
timew1w3	0	(omitted)			
Sex					
Women	0	(omitted)			
Sex#c.timew1w3					
Women	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-1.088982	.1581281	-6.89	0.000	-1.398907 -.7790568
Race#c.timew1w3					
AfrAm	.0405703	.0335116	1.21	0.226	-.0251112 .1062517
timew1w3	0	(omitted)			
PovStat					
Below	-.6763737	.1608311	-4.21	0.000	-.9915967 -.3611506
PovStat#c.timew1w3					
Below	-.0188339	.0332091	-0.57	0.571	-.0839225 .0462547
timew1w3	0	(omitted)			
invmillsmms	.0017658	.0039764	0.44	0.657	-.0060279 .0095595
c.timew1w3#c.invmillsmms	-.0008353	.0007568	-1.10	0.270	-.0023186 .000648
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.0617674	.102221	0.60	0.546	-.1385821 .2621169
c.timew1w3#c.zw1w3HCYTRAJ	-.0111627	.0213884	-0.52	0.602	-.0530832 .0307578

_cons	7.7514	.1290453	60.07	0.000	7.498476	8.004324
-------	---------------	-----------------	--------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0932486	.1617386	.0031135	2.792809	
sd(_cons)	1.585325	.1344124	1.342607	1.871922	
corr(timew1w3,_cons)	-.0239631	.4957402	-.7599762	.7389777	
sd(Residual)	1.365394	.1298183	1.133255	1.645084	

146 .

147 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4fobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,594
Group variable: HNDID		
Number of groups	=	821
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0000
Largest FMI	=	0.0000
DF adjustment: Large sample	DF:	min = 1.36e+61 avg = 3.41e+63 max = .
Model F test: Equal FMI	F(11, 8.4e+63)	= 10.43
	Prob > F	= 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0736176	.0560784	1.31	0.189	-.036294	.1835292
w1Agecent48	-.078899	.018774	-4.20	0.000	-.1156954	-.0421025
c.timew1w3#c.w1Agecent48	-.0009757	.0034568	-0.28	0.778	-.0077509	.0057994
timew1w3		0 (omitted)				
Sex						
Women		0 (omitted)				
Sex#c.timew1w3						
Women		0 (omitted)				
timew1w3		0 (omitted)				
Race						
AfrAm	-2.279937	.3612235	-6.31	0.000	-2.987922	-1.571952
Race#c.timew1w3						
AfrAm	-.0473283	.0667436	-0.71	0.478	-.1781433	.0834867
timew1w3		0 (omitted)				
PovStat						

Below	-1.757777	.3696018	-4.76	0.000	-2.482183	-1.033371
PovStat#c.timew1w3						
Below	.0196438	.0666424	0.29	0.768	-.1109729	.1502605
timew1w3	0	(omitted)				
invmillsmms	.0139217	.0095571	1.46	0.145	-.0048098	.0326532
c.timew1w3#c.invmillsmms	-.0021839	.0016108	-1.36	0.175	-.0053411	.0009732
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.2225919	.2312559	-0.96	0.336	-.6758452	.2306614
c.timew1w3#c.zw1w3HCYTRAJ	-.0155914	.0416479	-0.37	0.708	-.0972198	.0660371
_cons	20.52665	.2924713	70.18	0.000	19.95341	21.09988

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.3485496	.1452551	.1540045	.7888523
sd(_cons)	4.234141	.1965692	3.865881	4.637482
corr(timew1w3,_cons)	-.1897129	.1234392	-.416135	.0588616
sd(Residual)	2.730624	.2098834	2.348746	3.17459

148 .
149 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 1,562
Group variable: HNDID	Number of groups = 819
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0000
	Largest FMI = 0.0000
DF adjustment: Large sample	DF: min = 5.76e+56
	avg = 9.36e+61
	max = .
Model F test: Equal FMI	F(11, 1.6e+65) = 5.42
	Prob > F = 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0051119	.0226117	0.23	0.821	-.0392063
w1Agecent48	-.0080172	.007636	-1.05	0.294	-.0229835
c.timew1w3#c.w1Agecent48	-.0037647	.0013893	-2.71	0.007	-.0064877
timew1w3	0	(omitted)			
Sex					
Women	0	(omitted)			

Sex#c.timew1w3						
Women		0 (omitted)				
timew1w3		0 (omitted)				
Race						
AfrAm	-.7290447	.1467939	-4.97	0.000	-1.016756	-.4413339
Race#c.timew1w3						
AfrAm	.0047713	.0267993	0.18	0.859	-.0477544	.0572971
timew1w3		0 (omitted)				
PovStat						
Below	-.4376837	.1499528	-2.92	0.004	-.7315857	-.1437816
PovStat#c.timew1w3						
Below	-.0043714	.026696	-0.16	0.870	-.0566945	.0479517
timew1w3		0 (omitted)				
invmillsmms	.0077378	.0038868	1.99	0.047	.0001199	.0153557
c.timew1w3#c.invmillsmms	-.0006652	.0006374	-1.04	0.297	-.0019146	.0005841
timew1w3		0 (omitted)				
zw1w3HCYTRAJ	-.0994895	.0941013	-1.06	0.290	-.2839246	.0849455
c.timew1w3#c.zw1w3HCYTRAJ	-.0070385	.0168026	-0.42	0.675	-.039971	.0258939
_cons	7.809646	.1191456	65.55	0.000	7.576125	8.043167

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0431335	.1919562	7.03e-06	264.7877
sd(_cons)	1.678741	.0830693	1.523574	1.84971
corr(timew1w3,_cons)	.4041181	2.396161	-.9999372	.9999887
sd(Residual)	1.175396	.0824887	1.024347	1.348718

150 .

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

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,557

Group variable: HNDID

Number of groups	=	819
Obs per group:		

min = 1
 avg = 1.9
 max = 2

Average RVI = 0.0000
 Largest FMI = 0.0000

DF adjustment: Large sample

DF:	min	=	5.56e+56
	avg	=	2.30e+62
	max	=	.

Model F test: Equal FMI

F(11, 5.0e+65)	=	9.39
Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0110838	.0235257	-0.47	0.638	-.0571933 .0350256
w1Agecent48	-.0181513	.0075879	-2.39	0.017	-.0330232 -.0032793
c.timew1w3#c.w1Agecent48	-.0004992	.0014485	-0.34	0.730	-.0033383 .0023398
timew1w3	0	(omitted)			
Sex Women	0	(omitted)			
Sex#c.timew1w3 Women	0	(omitted)			
timew1w3	0	(omitted)			
Race AfrAm	-1.071577	.1456976	-7.35	0.000	-1.357139 -.7860149
Race#c.timew1w3 AfrAm	.0037252	.0279024	0.13	0.894	-.0509625 .0584129
timew1w3	0	(omitted)			
PovStat Below	-.6030042	.1487513	-4.05	0.000	-.8945513 -.311457
PovStat#c.timew1w3 Below	.0181074	.0277444	0.65	0.514	-.0362706 .0724855
timew1w3 invmillsmms	0	(omitted)			
	.0070842	.0038482	1.84	0.066	-.0004582 .0146266
c.timew1w3#c.invmillsmms	-.0001069	.000664	-0.16	0.872	-.0014083 .0011944
timew1w3 zw1w3HCYTRAJ	0	(omitted)			
	-.0414081	.0941037	-0.44	0.660	-.225848 .1430318
c.timew1w3#c.zw1w3HCYTRAJ	.0113442	.0175243	0.65	0.517	-.0230027 .0456911
_cons	6.518837	.1180953	55.20	0.000	6.287374 6.750299

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	2.51e-07	6.95e-08	1.46e-07	4.32e-07
sd(_cons)	1.609898	.0541679	1.507156	1.719644
sd(Residual)	1.234572	.032163	1.173116	1.299248

```

152 .
153 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4iobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,596
Number of groups = 823
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0000
Largest FMI = 0.0000
DF: min = 2.04e+64
        avg = 4.33e+69
        max =
F( 11, 5.4e+66) = 6.22
Prob > F = 0.0000

```

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0155256	.0179642	-0.86	0.387	-.0507348 .0196837
w1Agecent48	-.0024261	.0043737	-0.55	0.579	-.0109983 .0061461
c.timew1w3##c.w1Agecent48	-.0021516	.0011107	-1.94	0.053	-.0043286 .0000253
timew1w3	0	(omitted)			
Sex					
Women	0	(omitted)			
Sex#c.timew1w3					
Women	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-.4518077	.0841607	-5.37	0.000	-.6167597 -.2868557
Race#c.timew1w3					
AfrAm	.0154402	.0213759	0.72	0.470	-.0264558 .0573361
timew1w3	0	(omitted)			
PovStat					
Below	-.2459919	.0863421	-2.85	0.004	-.4152193 -.0767645
PovStat#c.timew1w3					
Below	-.0139919	.0214028	-0.65	0.513	-.0559406 .0279568
timew1w3	0	(omitted)			
invmillsmms	-.000112	.0022337	-0.05	0.960	-.00449 .0042661
c.timew1w3##c.invmillsmms	-.0000151	.0005218	-0.03	0.977	-.0010378 .0010076
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.0595544	.0539759	-1.10	0.270	-.1653453 .0462364
c.timew1w3##c.zw1w3HCYTRAJ	-.0015223	.0133981	-0.11	0.910	-.027782 .0247375

_cons	9.115126	.0681017	133.85	0.000	8.98165	9.248603
-------	-----------------	-----------------	---------------	--------------	----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1168451	.0382199	.0615437	.2218389
sd(_cons)	.7840304	.0725762	.6539414	.9399981
corr(timew1w3,_cons)	-.2973608	.148234	-.5548332	.0120928
sd(Residual)	.8784454	.0574078	.7728361	.9984863

154 .

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

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,573
Group variable: HNDID		
Number of groups	=	818
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0000
Largest FMI	=	0.0000
DF adjustment: Large sample	DF:	min = . avg = . max = .
Model F test: Equal FMI	F(11, .)	= 18.97
	Prob > F	= 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.0021595	.0046756	-0.46	0.644	-.0113235	.0070046
w1Agecent48	.0112263	.0012685	8.85	0.000	.0087401	.0137124
c.timew1w3#c.w1Agecent48	.0004818	.0002901	1.66	0.097	-.0000867	.0010503
timew1w3		0 (omitted)				
Sex Women		0 (omitted)				
Sex#c.timew1w3 Women		0 (omitted)				
timew1w3		0 (omitted)				
Race AfrAm	.1646031	.0243226	6.77	0.000	.1169317	.2122746
Race#c.timew1w3 AfrAm	.0044684	.0055786	0.80	0.423	-.0064654	.0154021
timew1w3		0 (omitted)				
PovStat Below	.0911691	.0250037	3.65	0.000	.0421628	.1401754

PovStat#c.timew1w3						
Below	.0057201	.0055973	1.02	0.307	-.0052505	.0166907
timew1w3	0 (omitted)					
invmillsmms	-.0005714	.0006397	-0.89	0.372	-.0018253	.0006825
c.timew1w3#c.invmillsmms	-.000108	.0001342	-0.80	0.421	-.0003711	.0001551
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	.0341287	.0154843	2.20	0.028	.0037801	.0644773
c.timew1w3#c.zw1w3HCYTRAJ	-.0064573	.0034679	-1.86	0.063	-.0132544	.0003397
_cons	3.285086	.0196323	167.33	0.000	3.246607	3.323565

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0293078	.0060781	.0195188	.0440062
sd(_cons)	.2492298	.0097859	.2307693	.2691671
sd(Residual)	.2271844	.0099235	.2085441	.2474909

```

156 .
157 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4kobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,517
Number of groups = 812
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0000
Largest FMI = 0.0000
DF: min = 1.44e+61
        avg = 4.68e+64
        max = .
F( 11, 8.5e+63) = 22.11
Prob > F = 0.0000

```

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.002894	.0073834	0.39	0.695	-.0115771 .0173652
w1Agecent48	.0159343	.0023748	6.71	0.000	.0112798 .0205888
c.timew1w3#c.w1Agecent48	.0008782	.000464	1.89	0.058	-.0000312 .0017877
timew1w3	0 (omitted)				
Sex					
Women	0 (omitted)				
Sex#c.timew1w3					
Women	0 (omitted)				

	timew1w3	0 (omitted)					
Race	AfrAm	.4248822	.0455492	9.33	0.000	.3356075	.514157
Race#c.timew1w3	AfrAm	-.0011043	.0088744	-0.12	0.901	-.0184977	.0162892
	timew1w3	0 (omitted)					
PovStat	Below	.2050474	.0468313	4.38	0.000	.1132597	.2968351
PovStat#c.timew1w3	Below	.0087754	.009122	0.96	0.336	-.0091034	.0266542
	timew1w3	0 (omitted)					
invmillsmms		-.0036417	.0011957	-3.05	0.002	-.0059852	-.0012982
c.timew1w3#c.invmillsmms		-.000954	.001642	-0.58	0.561	-.0041723	.0022643
	timew1w3	0 (omitted)					
zw1w3HCYTRAJ		-.0243226	.0289918	-0.84	0.401	-.0811454	.0325002
c.timew1w3#c.zw1w3HCYTRAJ		.005815	.0054365	1.07	0.285	-.0048403	.0164703
_cons		4.220273	.0367926	114.70	0.000	4.148161	4.292385

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0628217	.0201709	.0334814 .1178733
sd(_cons)	.5432095	.0307536	.4861574 .6069568
corr(timew1w3,_cons)	-.4518365	.0651028	-.5698748 -.3155287
sd(Residual)	.3196938	.0419972	.2471237 .4135746

```

158 .
159 .
160 . save, replace
      file finaldata_imputed_FINAL.dta saved

161 .
162 .
163 .
164 . //MODEL 2: MODEL 1 + BODY MASS INDEX///
165 .

```

```
166 . 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 ///
> if sample4aobs==1 & Sex==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 1,534

Number of groups = 812
Obs per group:

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

F(25, 50749.4) = 22.61
Prob > F = 0.0000

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0503802	.0556471	0.91	0.365	-.0586864 .1594469
w1Agecent48	-.013321	.0058557	-2.27	0.023	-.024799 -.0018431
c.timew1w3#c.w1Agecent48	-.0035808	.001362	-2.63	0.009	-.0062505 -.0009111
timew1w3	0 (omitted)				
Sex					
Women	0 (omitted)				
Sex#c.timew1w3					
Women	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	-.3777195	.1148569	-3.29	0.001	-.6028352 -.1526038
Race#c.timew1w3					
AfrAm	.0101165	.0269938	0.37	0.708	-.0427915 .0630244
timew1w3	0 (omitted)				
PovStat					
Below	-.0663191	.1160928	-0.57	0.568	-.2938569 .1612188
PovStat#c.timew1w3					
Below	-.0364553	.026471	-1.38	0.168	-.0883375 .0154268
timew1w3	0 (omitted)				
w1edubr					
2	.5795905	.2305658	2.51	0.012	.1276869 1.031494
3	.6264094	.2497201	2.51	0.012	.1369489 1.11587
w1edubr#c.timew1w3					
2	-.0652266	.0535037	-1.22	0.223	-.1700938 .0396406
3	-.0256235	.0578441	-0.44	0.658	-.1390078 .0877609

	timew1w3	0	(omitted)				
w1WRATtotalcent42		.1330567	.0083627	15.91	0.000	.1166661	.1494474
c.timew1w3#c.w1WRATtotalcent42		-.006701	.0021286	-3.15	0.002	-.010874	-.0025279
	timew1w3	0	(omitted)				
1.w1smoke		-.0450545	.132258	-0.34	0.734	-.3065004	.2163913
w1smoke#c.timew1w3							
1		-.0289625	.0300984	-0.96	0.336	-.0880739	.030149
	timew1w3	0	(omitted)				
1.w1currdrugs		-.0702329	.1676205	-0.42	0.675	-.399347	.2588812
w1currdrugs#c.timew1w3							
1		.0183621	.0394363	0.47	0.642	-.0591743	.0958984
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0023663	.0055644	-0.43	0.672	-.013518	.0087854
c.timew1w3#c.w1hei2010_total_scorecent43		-.0001823	.00139	-0.13	0.896	-.0029799	.0026154
	timew1w3	0	(omitted)				
w1BMICent30		-.0096828	.0068875	-1.41	0.160	-.0231869	.0038212
c.timew1w3#c.w1BMICent30							
	timew1w3	0	(omitted)				
invmillsmms		.0101833	.0028816	3.53	0.000	.0045354	.0158312
c.timew1w3#c.invmillsmms							
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.020194	.0703693	-0.29	0.774	-.1581154	.1177274
c.timew1w3#c.zw1w3HCYTRAJ							
	_cons	27.58182	.2368541	116.45	0.000	27.1176	28.04605

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0501146	.	.
sd(_cons)	1.034099	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.102459	.	.

```

167 .
168 .
169 . 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 ///
> if sample4aobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,534
Number of groups = 812
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI =
    Largest FMI =
    DF: min = 0.00
    avg =
    max =
F( 25,68527.3) = 21.03
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0878813	.4772588	0.18	0.854	.8475319	1.023294
w1Agecent48	-.1197368	.0472907	-2.53	0.011	-.2124324	-.0270412
c.timew1w3#c.w1Agecent48	-.0297659	.0116894	-2.55	0.011	-.0526789	-.0068528
timew1w3	0 (omitted)					
Sex						
Women	0 (omitted)					
Sex#c.timew1w3						
Women	0 (omitted)					
timew1w3	0 (omitted)					
Race						
AfrAm	-4.418306	.9271319	-4.77	0.000	-6.235453	-2.60116
Race#c.timew1w3						
AfrAm	.1633823	.231129	0.71	0.480	-.2896257	.6163903
timew1w3	0 (omitted)					
PovStat						
Below	-.5043996	.938808	-0.54	0.591	-2.344438	1.335639
PovStat#c.timew1w3						
Below	-.2912987	.2270387	-1.28	0.199	-.736287	.1536895
timew1w3	0 (omitted)					
w1edubr						
2	3.937445	1.863618	2.11	0.035	.2847864	7.590104
3	5.020371	2.019134	2.49	0.013	1.062762	8.97798
w1edubr#c.timew1w3						
2	-.4984105	.4581538	-1.09	0.277	-1.396383	.3995619

	3	- .0491532	.4959216	-0.10	0.921	-1.021244	.9229377
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		.9333325	.0675223	13.82	0.000	.8009906	1.065674
c.timew1w3#c.w1WRATTtotalcent42		-.0435727	.0182295	-2.39	0.017	-.0793083	-.007837
	timew1w3	0	(omitted)				
1.w1smoke		-1.15371	1.018944	-1.13	0.258	-3.15436	.8469401
	w1smoke#c.timew1w3	0	(omitted)				
1		-.0827246	.2555484	-0.32	0.746	-.5842668	.4188177
	timew1w3	0	(omitted)				
1.w1currdrugs		-.5255572	1.340765	-0.39	0.695	-3.155454	2.10434
	w1currdrugs#c.timew1w3	0	(omitted)				
1		.1311325	.3402787	0.39	0.700	-.5385653	.8008303
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0100179	.0424842	-0.24	0.814	-.0940217	.0739859
c.timew1w3#c.w1hei2010_total_scorecent43		.0015159	.0121177	0.13	0.901	-.0229928	.0260246
	timew1w3	0	(omitted)				
w1BMIcon30		-.0642792	.0549559	-1.17	0.242	-.1719947	.0434364
c.timew1w3#c.w1BMIcon30		.0033918	.0134008	0.25	0.800	-.0228756	.0296592
	timew1w3	0	(omitted)				
invmillsmms		.0556865	.0232817	2.39	0.017	.0100552	.1013178
c.timew1w3#c.invmillsmms		-.0091403	.0051755	-1.77	0.077	-.019284	.0010034
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.2400282	.5685046	-0.42	0.673	-1.354277	.8742204
c.timew1w3#c.zw1w3HCYTRAJ		.0400643	.1351937	0.30	0.767	-.224911	.3050397
	_cons	76.48761	1.917401	39.89	0.000	72.72955	80.24566

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.2780078	.	.
sd(_cons)	7.654343	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	9.516962	.	.

```

170 .
171 .
172 .
173 . 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 ///
> if sample4bobs==1 & Sex==1 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs   =  1,429

Group variable: HNDID                Number of groups =     813
                                         Obs per group:
                                         min =        1
                                         avg =      1.8
                                         max =        2
                                         Average RVI =    0.0633
                                         Largest FMI =  0.2890
DF adjustment: Large sample          DF:   min =    57.15
                                         avg = 147,239.86
                                         max = 1035349.01
Model F test: Equal FMI             F( 25, 20488.8) =    32.62
                                         Prob > F = 0.0000

```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.292624	.1970373	-6.56	0.000	-1.678831 -.9064175
w1Agecent48		-.157258	.023989	-6.56	0.000	-.2042812 -.1102348
c.timew1w3#c.w1Agecent48		-.0009735	.0052099	-0.19	0.852	-.0111884 .0092414
timew1w3		0	(omitted)			
Sex						
Women		0	(omitted)			
Sex#c.timew1w3						
Women		0	(omitted)			
timew1w3		0	(omitted)			
Race						
AfrAm		-2.499811	.4727109	-5.29	0.000	-3.426348 -1.573273
Race#c.timew1w3						
AfrAm		.1217514	.1021558	1.19	0.233	-.0784804 .3219833
timew1w3		0	(omitted)			
PovStat						
Below		-.5585894	.4736322	-1.18	0.238	-1.486919 .3697405
PovStat#c.timew1w3						
Below		.0560133	.099684	0.56	0.574	-.139364 .2513906
timew1w3		0	(omitted)			
w1edubr						
2		-1.027877	.940413	-1.09	0.275	-2.873777 .8180235
3		1.066631	1.014774	1.05	0.293	-.9246665 3.057929
w1edubr#c.timew1w3						

	2	.1432558	.1845225	0.78	0.438	-.2184053	.5049169
	3	.0716469	.2033597	0.35	0.725	-.3269372	.470231
	timew1w3	0 (omitted)					
w1WRATtotalcent42		.2717549	.034112	7.97	0.000	.2048953	.3386145
c.timew1w3#c.w1WRATtotalcent42		-.0068316	.007337	-0.93	0.352	-.0212124	.0075492
	timew1w3	0 (omitted)					
1.w1smoke		-.3410495	.531764	-0.64	0.523	-1.395239	.7131397
w1smoke#c.timew1w3							
1		-.084117	.1203456	-0.70	0.486	-.3227998	.1545658
	timew1w3	0 (omitted)					
1.w1currdrugs		-.2244561	.7098475	-0.32	0.752	-1.628964	1.180052
w1currdrugs#c.timew1w3							
1		.1718555	.1573861	1.09	0.277	-.1398563	.4835673
	timew1w3	0 (omitted)					
w1hei2010_total_scorecent43		.0465859	.0227661	2.05	0.045	.0010002	.0921716
c.timew1w3#c.w1hei2010_total_scorecent43		-.0061871	.0048294	-1.28	0.201	-.0156953	.0033212
	timew1w3	0 (omitted)					
w1BMIcon30		-.0112771	.0277365	-0.41	0.684	-.0656427	.0430884
c.timew1w3#c.w1BMIcon30							
	timew1w3	0 (omitted)					
invmillsmms		.0226056	.01107	2.04	0.041	.0009089	.0443024
c.timew1w3#c.invmillsmms							
	timew1w3	0 (omitted)					
zw1w3HCYTRAJ		.8040319	.2875464	2.80	0.005	.2404435	1.36762
c.timew1w3#c.zw1w3HCYTRAJ							
	_cons	27.73051	.9808736	28.27	0.000	25.80451	29.6565

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.381718	.127442	.1983901	.7344553	
sd(_cons)	4.461261	.1732724	4.13425	4.814137	
sd(Residual)	3.702627	.1746472	3.375655	4.061271	

```

174 .
175 .
176 .
177 . 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 ///
> if sample4cobs==1 & Sex==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 = 1,360
Number of groups = 803
Obs per group:
    min = 1
    avg = 1.7
    max = 2
    Average RVI = 0.0534
    Largest FMI = 0.2512
    DF: min = 74.71
        avg = 954,855.30
        max = 1.46e+07
    F( 25, 27734.0) = 21.92
    Prob > F = 0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.3781202	.0918665	-4.12	0.000	-.5581867 -.1980537
		-.0759759	.0115667	-6.57	0.000	-.0986466 -.0533052
c.timew1w3#c.w1Agecent48		-.0019295	.0024936	-0.77	0.439	-.0068184 .0029593
timew1w3		0	(omitted)			
Sex						
Women		0	(omitted)			
Sex#c.timew1w3						
Women		0	(omitted)			
timew1w3		0	(omitted)			
Race						
AfrAm		-1.491722	.2281183	-6.54	0.000	-1.938858 -1.044586
Race#c.timew1w3						
AfrAm		.0224216	.0486667	0.46	0.645	-.0729783 .1178214
timew1w3		0	(omitted)			
PovStat						
Below		-.2218625	.2282686	-0.97	0.331	-.6692656 .2255406
PovStat#c.timew1w3						
Below		-.010719	.0470542	-0.23	0.820	-.1029436 .0815055
timew1w3		0	(omitted)			
w1edubr						
2		-.2509044	.4415272	-0.57	0.570	-1.116333 .6145238
3		.4814509	.4775949	1.01	0.313	-.4546663 1.417568
w1edubr#c.timew1w3						

	2	.0458806	.0858419	0.53	0.593	-.1223714	.2141327
	3	.0405167	.0943698	0.43	0.668	-.1444466	.22548
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		.1115883	.0165049	6.76	0.000	.0792358	.1439407
c.timew1w3#c.w1WRATTtotalcent42		-.0052221	.0034669	-1.51	0.132	-.0120172	.001573
	timew1w3	0	(omitted)				
1.w1smoke		-.1566455	.2456981	-0.64	0.524	-.6399133	.3266223
w1smoke#c.timew1w3							
1		-.0404013	.0558411	-0.72	0.470	-.1506581	.0698556
	timew1w3	0	(omitted)				
1.w1currdrugs		.3013338	.3237936	0.93	0.352	-.3340333	.9367009
w1currdrugs#c.timew1w3							
1		-.1031182	.0765331	-1.35	0.182	-.2555897	.0493534
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0194572	.0104085	1.87	0.064	-.0011113	.0400258
c.timew1w3#c.w1hei2010_total_scorecent43		-.0026989	.0022974	-1.17	0.241	-.0072245	.0018266
	timew1w3	0	(omitted)				
w1BMIcon30		.0238692	.0133657	1.79	0.074	-.0023273	.0500656
c.timew1w3#c.w1BMIcon30							
	timew1w3	0	(omitted)				
invmillsmms		.0100246	.0052849	1.90	0.058	-.0003337	.0203828
c.timew1w3#c.invmillsmms							
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.4871887	.1392815	3.50	0.000	.214201	.7601764
c.timew1w3#c.zw1w3HCYTRAJ							
	_cons	8.704647	.459016	18.96	0.000	7.80493	9.604363

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0820932	.1336477	.0033769
sd(_cons)	2.133771	.0827443	1.9957
sd(Residual)	1.766229	.0820531	1.612512
			1.9346

```

178 .
179 .
180 .
181 . 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 ///
> if sample4dobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,591
Number of groups = 823
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI = 0.0432
    Largest FMI = 0.2475
    DF: min = 76.81
        avg = 757,529.39
        max = 1.43e+07
    F( 25, 38911.1) = 19.61
    Prob > F = 0.0000

```

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.5189311	.146274	3.55	0.000	.2322361	.8056262
w1Agecent48	.1131767	.0168508	6.72	0.000	.0801495	.1462039
c.timew1w3#c.w1Agecent48	.0066194	.003639	1.82	0.069	-.0005132	.013752
timew1w3	0	(omitted)				
Sex						
Women	0	(omitted)				
Sex#c.timew1w3						
Women	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	.7937411	.3302658	2.40	0.016	.1464261	1.441056
Race#c.timew1w3						
AfrAm	.1494359	.0712439	2.10	0.036	.009799	.2890727
timew1w3	0	(omitted)				
PovStat						
Below	.6704937	.3366364	1.99	0.046	.0106937	1.330294
PovStat#c.timew1w3						
Below	.0101419	.0713443	0.14	0.887	-.1296904	.1499742
timew1w3	0	(omitted)				
w1edubr						
2	-.7086142	.683708	-1.04	0.300	-2.050095	.6328663
3	-1.369229	.7490527	-1.83	0.068	-2.840376	.1019182
w1edubr#c.timew1w3						

	2	-.244155	.1399674	-1.74	0.081	-.5184861	.0301762
	3	-.2962471	.1529154	-1.94	0.053	-.5959685	.0034744
timew1w3		0 (omitted)					
w1WRATTtotalcent42		-.1921703	.0245059	-7.84	0.000	-.2402267	-.1441139
c.timew1w3#c.w1WRATTtotalcent42		-.000272	.0051724	-0.05	0.958	-.0104101	.0098661
timew1w3		0 (omitted)					
1.w1smoke		.2840206	.3513537	0.81	0.419	-.4048294	.9728705
w1smoke#c.timew1w3							
1		-.0121392	.0786565	-0.15	0.877	-.1663409	.1420625
timew1w3		0 (omitted)					
1.w1currdrugs		-.0541561	.4965497	-0.11	0.913	-1.032722	.9244099
w1currdrugs#c.timew1w3							
1		.1081935	.1081181	1.00	0.318	-.1046346	.3210216
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		-.0078176	.0152706	-0.51	0.610	-.0382264	.0225912
c.timew1w3#c.w1hei2010_total_scorecent43		-.0031283	.0033626	-0.93	0.353	-.0097537	.0034972
timew1w3		0 (omitted)					
w1BMIcon30		-.0028124	.0195768	-0.14	0.886	-.0411827	.035558
c.timew1w3#c.w1BMIcon30		-.0004503	.0042368	-0.11	0.915	-.0087548	.0078542
timew1w3		0 (omitted)					
invmillsmms		-.0198371	.0083292	-2.38	0.017	-.0361622	-.0035121
c.timew1w3#c.invmillsmms		-.0001984	.0016681	-0.12	0.905	-.0034678	.003071
timew1w3		0 (omitted)					
zw1w3HCYTRAJ		-.0505273	.2029315	-0.25	0.803	-.4482685	.3472139
c.timew1w3#c.zw1w3HCYTRAJ		.0235595	.0427122	0.55	0.581	-.0601554	.1072745
_cons		7.085575	.7048171	10.05	0.000	5.702548	8.468603

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.6349553	.0869614	.4854701 .8304697
sd(_cons)	3.82	.1902568	3.464725 4.211706
corr(timew1w3,_cons)	-.4963333	.0459579	-.5809852 -.4010585
sd(Residual)	2.117848	.2621086	1.661683 2.699241

```

182 .
183 .
184 . mi estimate: mixed Attention 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 ///
> if sample4eobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,439

Number of groups = 812
Obs per group:
    min = 1
    avg = 1.8
    max = 2
Average RVI = 0.0342
Largest FMI = 0.3701
DF: min = 35.51
      avg = 1787572.85
      max = 3.50e+07
F( 25,59825.6) = 10.55
Prob > F = 0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	- .1382119	.0709189	-1.95	0.051	-.2772137 .0007899
	w1Agecent48	- .0196683	.0080913	-2.43	0.015	-.0355271 -.0038095
c.timew1w3#c.w1Agecent48		- .0017976	.0017765	-1.01	0.312	-.0052795 .0016842
	timew1w3	0	(omitted)			
	Sex					
	Women	0	(omitted)			
	Sex#c.timew1w3					
	Women	0	(omitted)			
	timew1w3	0	(omitted)			
	Race					
	AfrAm	- .7896191	.1605687	-4.92	0.000	-1.10433 -.4749086
Race#c.timew1w3						
	AfrAm	.0684315	.0354058	1.93	0.053	-.0009631 .1378261
	timew1w3	0	(omitted)			
	PovStat					
	Below	- .4487915	.1629521	-2.75	0.006	-.7681935 -.1293895
PovStat#c.timew1w3						
	Below	.0066994	.0349705	0.19	0.848	-.0618421 .0752409
	timew1w3	0	(omitted)			
	w1edubr					
	2	.2550475	.3217823	0.79	0.428	-.3756347 .8857297
	3	.2164269	.347885	0.62	0.534	-.465434 .8982878
w1edubr#c.timew1w3						
	2	.0694233	.0676037	1.03	0.304	-.0630801 .2019267

	3	.0420762	.0736859	0.57	0.568	-.1023488	.1865011
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		.0785657	.0119368	6.58	0.000	.0551657	.1019658
c.timew1w3#c.w1WRATTtotalcent42		.0054315	.0026154	2.08	0.038	.0003053	.0105576
	timew1w3	0	(omitted)				
1.w1smoke		-.0750873	.2054433	-0.37	0.717	-.4919465	.3417719
	w1smoke#c.timew1w3						
1		-.0149122	.0396709	-0.38	0.707	-.0928268	.0630023
	timew1w3	0	(omitted)				
1.w1currdrugs		.3945406	.2262286	1.74	0.081	-.0490305	.8381118
	w1currdrugs#c.timew1w3						
1		-.1110719	.0513418	-2.16	0.031	-.2118584	-.0102853
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0012911	.0072173	-0.18	0.858	-.015574	.0129917
c.timew1w3#c.w1hei2010_total_scorecent43		.000464	.0016188	0.29	0.775	-.0027228	.0036507
	timew1w3	0	(omitted)				
w1BMIcontent30		-.0290819	.0095724	-3.04	0.002	-.0478457	-.010318
c.timew1w3#c.w1BMIcontent30		-.0000282	.0020602	-0.01	0.989	-.0040664	.00401
	timew1w3	0	(omitted)				
invmillsmms		.0018942	.0038105	0.50	0.619	-.0055743	.0093626
c.timew1w3#c.invmillsmms		-.0010471	.0007531	-1.39	0.164	-.0025231	.0004289
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.054119	.0985991	0.55	0.583	-.1391319	.2473698
c.timew1w3#c.zw1w3HCYTRAJ		-.0110353	.0212734	-0.52	0.604	-.0527304	.0306599
	_cons	7.201721	.3356181	21.46	0.000	6.543841	7.8596

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1028458	.1457622	.0063942	1.654204
sd(_cons)	1.476937	.1370753	1.231293	1.771588
corr(timew1w3,_cons)	-.1829401	.269687	-.624228	.3468485
sd(Residual)	1.339538	.1283346	1.110211	1.616236

185 .

```
186 . 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 ///
> if sample4fobs==1 & Sex==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,594
Group variable: HNDID		
Number of groups	=	821
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0494
Largest FMI	=	0.3364
DF: min	=	42.71
avg	=	4074906.82
max	=	1.09e+08
Model F test: Equal FMI	F(25, 30157.2)	= 9.43
	Prob > F	= 0.0000

DF adjustment: Large sample

	FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.1086269	.1411184	-0.77	0.441	-.3852252 .1679714
w1Agecent48		-.0768707	.0183177	-4.20	0.000	-.1127742 -.0409671
c.timew1w3#c.w1Agecent48		.0000453	.0035728	0.01	0.990	-.0069576 .0070483
timew1w3		0	(omitted)			
Sex						
Women		0	(omitted)			
Sex#c.timew1w3						
Women		0	(omitted)			
timew1w3		0	(omitted)			
Race						
AfrAm		-1.699493	.3605651	-4.71	0.000	-2.406191 -.9927954
Race#c.timew1w3						
AfrAm		-.0320828	.0702062	-0.46	0.648	-.1696849 .1055193
timew1w3		0	(omitted)			
PovStat						
Below		-.8512615	.3670463	-2.32	0.020	-1.570678 -.1318452
PovStat#c.timew1w3						
Below		.0163393	.06992	0.23	0.815	-.1207019 .1533805
timew1w3		0	(omitted)			
w1edubr						
2		-.8963242	.7221759	-1.24	0.215	-2.311765 .5191163
3		.4380334	.7811998	0.56	0.575	-1.093118 1.969185
w1edubr#c.timew1w3						
2		.1738884	.1344796	1.29	0.196	-.089688 .4374649
3		.1550842	.1472807	1.05	0.292	-.133587 .4437553

timew1w3	0	(omitted)				
w1WRATtotalcent42	.157648	.0262358	6.01	0.000	.1062244	.2090717
c.timew1w3#c.w1WRATtotalcent42	.0038416	.0050834	0.76	0.450	-.0061216	.0138048
timew1w3	0	(omitted)				
1.w1smoke	-.7366496	.4379813	-1.68	0.100	-1.620099	.1467996
w1smoke#c.timew1w3						
1	.0933052	.0798278	1.17	0.243	-.063555	.2501654
timew1w3	0	(omitted)				
1.w1currdrugs	.7027071	.5153598	1.36	0.174	-.3105351	1.715949
w1currdrugs#c.timew1w3						
1	-.149117	.1003729	-1.49	0.137	-.3459117	.0476777
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	.0258357	.0157812	1.64	0.105	-.0054792	.0571505
c.timew1w3#c.w1hei2010_total_scorecent43	-.004524	.003133	-1.44	0.149	-.0106673	.0016194
timew1w3	0	(omitted)				
w1BMICent30	.0152565	.0214212	0.71	0.476	-.0267342	.0572473
c.timew1w3#c.w1BMICent30						
timew1w3	0	(omitted)				
invmillsmms	.0118997	.009077	1.31	0.190	-.0058909	.0296903
c.timew1w3#c.invmillsmms						
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.2189178	.2203666	-0.99	0.321	-.6508306	.212995
c.timew1w3#c.zw1w3HCYTRAJ						
_cons	20.17265	.749861	26.90	0.000	18.7027	21.64259

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.3051806	.1703499	.1021906	.9113874	
sd(_cons)	3.874141	.2051326	3.492246	4.297797	
corr(timew1w3,_cons)	-.1636126	.1581614	-.4491354	.1522314	
sd(Residual)	2.769675	.2121882	2.383507	3.218409	

```

187 .
188 . 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 ///
> if sample4gobs==1 & Sex==1 || HNDID: timew1w3, cov(un)
convergence not achieved
model did not converge on m=4
r(498);

end of do-file

r(498);

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

190 . 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 ///
> if sample4gobs==1 & Sex==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression
Imputations      =      5
Number of obs    = 1,562

Group variable: HNDID
Number of groups = 819
Obs per group:
min = 1
avg = 1.9
max = 2
Average RVI      = 0.0518
Largest FMI      = 0.3093
DF: min          = 50.20
           avg          = 2363437.90
           max          = 3.62e+07
DF adjustment: Large sample
DF: min          = 50.20
           avg          = 2363437.90
           max          = 3.62e+07
Model F test: Equal FMI
F( 25,28987.6) = 10.85
Prob > F          = 0.0000

```

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0185166	.0570508	0.32	0.746	-.0933013	.1303345
w1Agecent48	-.0005932	.0071097	-0.08	0.934	-.014528	.0133416
c.timew1w3##c.w1Agecent48	-.0037389	.0014459	-2.59	0.010	-.0065728	-.0009049
timew1w3	0 (omitted)					
Sex						
Women	0 (omitted)					
Sex#c.timew1w3						
Women	0 (omitted)					
timew1w3	0 (omitted)					
Race						
AfrAm	-.2857648	.1407749	-2.03	0.042	-.5616879	-.0098416
Race#c.timew1w3						
AfrAm	.0062844	.0285688	0.22	0.826	-.0497094	.0622782
timew1w3	0 (omitted)					
PovStat						

	Below	- .110222	.142732	-0.77	0.440	- .3899822	.1695382
PovStat#c.timew1w3							
Below		- .0112125	.0285073	-0.39	0.694	- .0670888	.0446638
timew1w3			0 (omitted)				
w1edubr							
2		.0646386	.2846055	0.23	0.820	- .4932028	.6224801
3		.2936809	.3085691	0.95	0.341	- .3112196	.8985814
w1edubr#c.timew1w3							
2		.0148871	.05429	0.27	0.784	- .0915195	.1212938
3		- .0283908	.0594363	-0.48	0.633	- .144887	.0881055
timew1w3		0 (omitted)					
w1WRATtotalcent42		.1175495	.0103841	11.32	0.000	.0971882	.1379108
c.timew1w3#c.w1WRATtotalcent42		- .0013553	.0020916	-0.65	0.517	- .0054548	.0027442
timew1w3		0 (omitted)					
1.w1smoke		.2987066	.1686435	1.77	0.083	- .0399904	.6374036
w1smoke#c.timew1w3							
1		- .0089372	.0320102	-0.28	0.780	- .0717613	.053887
timew1w3		0 (omitted)					
1.w1currdrugs		.249139	.2067366	1.21	0.230	- .1589528	.6572307
w1currdrugs#c.timew1w3							
1		- .0071279	.0422487	-0.17	0.866	- .0901188	.0758629
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		.0004043	.0062357	0.06	0.948	- .011978	.0127866
c.timew1w3#c.w1hei2010_total_scorecent43		.0005248	.0012892	0.41	0.684	- .0020048	.0030543
timew1w3		0 (omitted)					
w1BMIcon30		- .012289	.0083969	-1.46	0.143	- .0287512	.0041732
c.timew1w3#c.w1BMIcon30		- .0030231	.0016797	-1.80	0.072	- .0063156	.0002695
timew1w3		0 (omitted)					
invmillsmms		.0072439	.0035405	2.05	0.041	.0003046	.0141832
c.timew1w3#c.invmillsmms		- .0006137	.0006446	-0.95	0.341	- .001877	.0006496
timew1w3		0 (omitted)					
zw1w3HCYTRAJ		- .1266364	.086002	-1.47	0.141	- .2951974	.0419247
c.timew1w3#c.zw1w3HCYTRAJ		- .0043094	.0170349	-0.25	0.800	- .0376974	.0290786
_cons		7.020718	.2959715	23.72	0.000	6.440456	7.600979

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1149294	.0359302	.0622761	.2121002
sd(_cons)	1.479935	.0505707	1.384064	1.582446
sd(Residual)	1.120291	.0486315	1.028918	1.21978

191 .
192 . 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 ///
> if sample4hobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 1,557

Number of groups = 819
Obs per group:

min = 1
avg = 1.9
max = 2

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

F(25, 40021.5) = 16.98
Prob > F = 0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.1099732	.0588018	-1.87	0.061	-.2252334	.005287
w1Agecent48	-.0127214	.0069752	-1.82	0.068	-.0263926	.0009498
c.timew1w3#c.w1Agecent48	-.0002017	.0014864	-0.14	0.892	-.0031151	.0027117
timew1w3	0 (omitted)					
Sex Women	0 (omitted)					
Sex#c.timew1w3 Women	0 (omitted)					
timew1w3	0 (omitted)					
Race AfrAm	-.5607635	.1373975	-4.08	0.000	-.8300586	-.2914684
Race#c.timew1w3 AfrAm	.003416	.0293651	0.12	0.907	-.0541408	.0609728
timew1w3	0 (omitted)					
PovStat Below	-.1855619	.139559	-1.33	0.184	-.4590982	.0879745
PovStat#c.timew1w3 Below	.015094	.0289246	0.52	0.602	-.0415973	.0717852

	timew1w3	0 (omitted)					
w1edubr							
2	-.2617172	.2780277	-0.94	0.347	-.8066537	.2832192	
3	-.022143	.3011923	-0.07	0.941	-.6125164	.5682303	
w1edubr#c.timew1w3							
2	.11683	.0556081	2.10	0.036	.0078391	.2258209	
3	.0592076	.0608479	0.97	0.331	-.0600559	.1784711	
timew1w3	0 (omitted)						
w1WRATtotalcent42	.1329862	.0100453	13.24	0.000	.1132972	.1526751	
c.timew1w3#c.w1WRATtotalcent42	-.0017867	.0021648	-0.83	0.409	-.0060301	.0024566	
timew1w3	0 (omitted)						
1.w1smoke	-.0653602	.1631978	-0.40	0.690	-.3906865	.2599661	
w1smoke#c.timew1w3							
1	.0400139	.0345743	1.16	0.249	-.0283066	.1083343	
timew1w3	0 (omitted)						
1.w1currdrugs	.2037501	.2037193	1.00	0.318	-.1976064	.6051067	
w1currdrugs#c.timew1w3							
1	-.0120683	.0440624	-0.27	0.784	-.0988096	.0746729	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	.0004372	.0057145	0.08	0.939	-.0107715	.0116458	
c.timew1w3#c.w1hei2010_total_scorecent43	.0025763	.0014879	1.73	0.089	-.0004028	.0055554	
timew1w3	0 (omitted)						
w1BMIcon30	-.0063863	.0081975	-0.78	0.436	-.0224544	.0096818	
c.timew1w3#c.w1BMIcon30	-.0034026	.001712	-1.99	0.047	-.0067582	-.000047	
timew1w3	0 (omitted)						
invmillsmms	.0059109	.0034578	1.71	0.087	-.0008663	.0126881	
c.timew1w3#c.invmillsmms	.0000201	.0006614	0.03	0.976	-.0012763	.0013165	
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	-.0589984	.0849979	-0.69	0.488	-.2255913	.1075946	
c.timew1w3#c.zw1w3HCYTRAJ	.0152255	.0174334	0.87	0.382	-.0189436	.0493945	
_cons	6.092266	.2891198	21.07	0.000	5.525494	6.659038	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0144387	.	.
sd(_cons)	1.340883	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.221221	.	.

193 .

```
194 . 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 ///
> if sample4iobs==1 & Sex==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	1,596
Group variable: HNDID	Number of groups	=	823
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	0.0399
	Largest FMI	=	0.2237
DF adjustment: Large sample	DF: min	=	93.13
	avg	=	741,210.23
	max	=	1.18e+07
Model F test: Equal FMI	F(25, 45934.5)	=	7.43
	Prob > F	=	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0739984	.0458529	-1.61	0.107	-.1638883 .0158915
w1Agecent48	.0009464	.004327	0.22	0.827	-.0075347 .0094276
c.timew1w3##c.w1Agecent48	-.0025124	.001135	-2.21	0.027	-.0047369 -.000288
timew1w3	0 (omitted)				
Sex					
Women	0 (omitted)				
Sex#c.timew1w3					
Women	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	-.3434709	.0848311	-4.05	0.000	-.5097369 -.1772049
Race#c.timew1w3					
AfrAm	.0185322	.0224291	0.83	0.409	-.025429 .0624933
timew1w3	0 (omitted)				
PovStat					
Below	-.0878872	.0866775	-1.01	0.311	-.2577744 .082
PovStat#c.timew1w3					
Below	-.011495	.0223677	-0.51	0.607	-.0553351 .0323451
timew1w3	0 (omitted)				
w1edubr					
2	.0304975	.179143	0.17	0.865	-.3211232 .3821181
3	.2900743	.1922801	1.51	0.132	-.0871665 .6673151
w1edubr#c.timew1w3					
2	.0482299	.0439961	1.10	0.273	-.0380182 .1344779
3	.050352	.0480632	1.05	0.295	-.0438704 .1445744

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.0331303	.006205	5.34	0.000	.0209686	.0452921
c.timew1w3#c.w1WRATtotalcent42		-.0004585	.0016337	-0.28	0.779	-.0036608	.0027439
	timew1w3	0	(omitted)				
	1.w1smoke	-.1073511	.1002654	-1.07	0.286	-.3057716	.0910693
	w1smoke#c.timew1w3						
	1	.0522323	.0260167	2.01	0.046	.0009372	.1035275
	timew1w3	0	(omitted)				
	1.w1currdrugs	.4123798	.1311031	3.15	0.002	.1536687	.6710909
	w1currdrugs#c.timew1w3						
	1	-.079284	.0317769	-2.50	0.013	-.1415734	-.0169945
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0002812	.0040334	0.07	0.945	-.0077281	.0082906
c.timew1w3#c.w1hei2010_total_scorecent43		.0018739	.0010486	1.79	0.075	-.0001937	.0039415
	timew1w3	0	(omitted)				
	w1BMICent30	-.0009286	.0050674	-0.18	0.855	-.0108608	.0090036
c.timew1w3#c.w1BMICent30		-.0009697	.0013178	-0.74	0.462	-.0035526	.0016131
	timew1w3	0	(omitted)				
	invmillsmms	-4.96e-06	.0021501	-0.00	0.998	-.004219	.0042091
c.timew1w3#c.invmillsmms		-.0000659	.0005199	-0.13	0.899	-.0010849	.0009532
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0671565	.0521405	-1.29	0.198	-.1693511	.0350381
c.timew1w3#c.zw1w3HCYTRAJ		-.0007425	.013391	-0.06	0.956	-.0269886	.0255037
	_cons	8.814624	.1829348	48.18	0.000	8.455691	9.173557

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.1042851	.0426328	.0467992	.232384	
sd(_cons)	.6944707	.0804573	.5533972	.871507	
corr(timew1w3,_cons)	-.2974461	.1823691	-.6036378	.0852125	
sd(Residual)	.8883633	.0570973	.7832158	1.007627	

```

195 .
196 . 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.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4jobs==1 & Sex==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =      5
Number of obs    = 1,573

Group variable: HNDID
Number of groups =     818
Obs per group:
min =          1
avg =          1.9
max =          2
Average RVI     =  0.0367
Largest FMI     =  0.2772
DF: min         =  61.89
        avg         = 2144507.55
        max         =  3.58e+07
DF adjustment: Large sample
F( 25,55789.2) =   10.65
Prob > F        =  0.0000

```

	LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0150015	.0119832	1.25	0.211	.0084867	.0384898
w1Agecent48	.0109818	.0012816	8.57	0.000	.0084698	.0134937
c.timew1w3#c.w1Agecent48	.0003766	.0002976	1.27	0.206	-.0002067	.00096
timew1w3	0	(omitted)				
Sex						
Women	0	(omitted)				
Sex#c.timew1w3						
Women	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	.1312684	.0251773	5.21	0.000	.0819214	.1806154
Race#c.timew1w3						
AfrAm	.0023972	.0058487	0.41	0.682	-.0090661	.0138605
timew1w3	0	(omitted)				
PovStat						
Below	.0753916	.0256161	2.94	0.003	.0251849	.1255983
PovStat#c.timew1w3						
Below	.0006753	.0058364	0.12	0.908	-.0107638	.0121143
timew1w3	0	(omitted)				
w1edubr						
2	-.0635077	.052117	-1.22	0.223	-.1656874	.0386721
3	-.0090981	.0559691	-0.16	0.871	-.11881	.1006137
w1edubr#c.timew1w3						
2	-.0115588	.0114394	-1.01	0.312	-.0339808	.0108631
3	-.0198338	.012464	-1.59	0.112	-.0442632	.0045956

	timew1w3	0	(omitted)				
	w1WRATTtotalcent42	- .0082166	.0018566	-4.43	0.000	-.0118556	-.0045776
c.timew1w3#c.w1WRATTtotalcent42		- .0005854	.0004281	-1.37	0.172	-.0014245	.0002538
	timew1w3	0	(omitted)				
	1.w1smoke	.0217169	.0275934	0.79	0.432	-.0324635	.0758974
w1smoke#c.timew1w3		.0034536	.0065162	0.53	0.596	-.0093235	.0162306
	1						
	timew1w3	0	(omitted)				
	1.w1currdrugs	.0420897	.0379576	1.11	0.269	-.0327993	.1169787
w1currdrugs#c.timew1w3		- .0048427	.0083744	-0.58	0.563	-.0212609	.0115754
	1						
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0003838	.0011953	0.32	0.749	-.0020056	.0027732
c.timew1w3#c.w1hei2010_total_scorecent43		.0001257	.0002846	0.44	0.659	-.0004382	.0006897
	timew1w3	0	(omitted)				
	w1BMICent30	.002962	.0014946	1.98	0.048	.0000326	.0058914
c.timew1w3#c.w1BMICent30		- .0003252	.0003422	-0.95	0.342	-.0009959	.0003455
	timew1w3	0	(omitted)				
	invmillsmms	- .0004687	.0006312	-0.74	0.458	-.0017058	.0007683
c.timew1w3#c.invmillsmms		- .0001029	.0001337	-0.77	0.441	-.0003651	.0001592
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.0336996	.0153197	2.20	0.028	.0036735	.0637258
c.timew1w3#c.zw1w3HCYTRAJ		- .0059427	.0034646	-1.72	0.086	-.0127331	.0008478
	_cons	3.338912	.0536928	62.19	0.000	3.23364	3.444184

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0269937	.006368	.0170003	.0428614
sd(_cons)	.2396623	.0096813	.221419	.2594087
sd(Residual)	.2282336	.0097177	.2099603	.2480971

197 .

```
198 . 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 ///
> if sample4kobs==1 & Sex==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,517

Group variable: HNDID

Number of groups = 812
Obs per group:

min = 1
avg = 1.9
max = 2

Average RVI = 0.0563

Largest FMI = 0.3345

DF adjustment: Large sample

DF: min = 43.17
avg = 344,375.81
max = 4665839.21

Model F test: Equal FMI

F(25, 23447.6) = 16.45
Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0186337	.0193672	0.96	0.336	.0193425	.0566099
w1Agecent48	.014755	.0023187	6.36	0.000	.0102103	.0192997
c.timew1w3#c.w1Agecent48	.0007153	.0004773	1.50	0.134	-.0002202	.0016509
timew1w3	0 (omitted)					
Sex						
Women	0 (omitted)					
Sex#c.timew1w3						
Women	0 (omitted)					
timew1w3	0 (omitted)					
Race						
AfrAm	.3192632	.0454661	7.02	0.000	.2301507	.4083757
Race#c.timew1w3						
AfrAm	-.0020584	.0093302	-0.22	0.825	-.0203453	.0162286
timew1w3	0 (omitted)					
PovStat						
Below	.1176825	.0464448	2.53	0.011	.02665	.208715
PovStat#c.timew1w3						
Below	.0019483	.0094312	0.21	0.836	-.0165366	.0204333
timew1w3	0 (omitted)					
w1edubr						
2	.0042513	.0933037	0.05	0.964	-.1786349	.1871376
3	-.0738001	.1007049	-0.73	0.464	-.2711918	.1235917
w1edubr#c.timew1w3						
2	-.0113073	.0184105	-0.61	0.539	-.0473926	.0247779
3	-.0168321	.02008	-0.84	0.402	-.0561931	.0225289

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	- .0267954	.0033895	-7.91	0.000	-.033439	-.0201518
c.timew1w3#c.w1WRATtotalcent42		- .0004487	.0007193	-0.62	0.533	-.0018586	.0009611
	timew1w3	0	(omitted)				
	1.w1smoke	.0006495	.0567985	0.01	0.991	-.1138824	.1151815
w1smoke#c.timew1w3		.0124482	.0110395	1.13	0.261	-.0093339	.0342303
	timew1w3	0	(omitted)				
	1.w1currdrugs	.032088	.0692388	0.46	0.644	-.1049664	.1691424
w1currdrugs#c.timew1w3		-.0216846	.0138675	-1.56	0.118	-.0489272	.005558
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0003099	.0018875	0.16	0.870	-.003394	.0040138
c.timew1w3#c.w1hei2010_total_scorecent43		-.0001233	.0004427	-0.28	0.781	-.0009956	.0007489
	timew1w3	0	(omitted)				
	w1BMIcon30	.0026449	.0027086	0.98	0.329	-.0026644	.0079542
c.timew1w3#c.w1BMIcon30		-.0010262	.0005473	-1.88	0.061	-.0020989	.0000464
	timew1w3	0	(omitted)				
	invmillsmms	-.003305	.0011376	-2.91	0.004	-.0055347	-.0010754
c.timew1w3#c.invmillsmms		-.0005637	.0015863	-0.36	0.722	-.0036729	.0025454
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0198267	.0276351	-0.72	0.473	-.0739905	.0343371
c.timew1w3#c.zw1w3HCYTRAJ		.0061703	.0054077	1.14	0.254	-.0044286	.0167692
	_cons	4.360918	.0968463	45.03	0.000	4.171037	4.5508

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0552051	.0220858	.0252021	.1209264	
sd(_cons)	.4963207	.0320593	.4373003	.5633069	
corr(timew1w3,_cons)	-.5265841	.075436	-.6584031	-.363423	
sd(Residual)	.3308042	.0395803	.2616526	.4182316	

```

199 .
200 .
201 . save, replace
      file finaldata_imputed_FINAL.dta saved

202 .
203 .
204 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
205 .
206 . 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##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression
Imputations      =          5
Number of obs    =     1,534

Group variable: HNDID
Number of groups =        812
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( 41,62028.5) =      14.20
Prob > F        = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0570929	.0643896	0.89	0.375	.0691092	.183295
w1Agecent48	-.0152091	.0065493	-2.32	0.020	-.0280471	-.002371
c.timew1w3#c.w1Agecent48	-.0031759	.001524	-2.08	0.037	-.0061632	-.0001885
timew1w3	0	(omitted)				
Sex						
Women	0	(omitted)				
Sex#c.timew1w3						
Women	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	-.3839931	.1182505	-3.25	0.001	-.6157634	-.1522228
Race#c.timew1w3						
AfrAm	.0092183	.0277928	0.33	0.740	-.0452563	.0636929
timew1w3	0	(omitted)				
PovStat						
Below	-.037875	.1174285	-0.32	0.747	-.2680313	.1922813
PovStat#c.timew1w3						
Below	-.0393953	.0267736	-1.47	0.141	-.0918705	.0130799

	timew1w3	0 (omitted)					
w1edubr							
2	.5868182	.2302967	2.55	0.011	.1354417	1.038195	
3	.6516971	.250242	2.60	0.009	.1612231	1.142171	
w1edubr#c.timew1w3							
2	-.0667921	.0534923	-1.25	0.212	-.171636	.0380519	
3	-.0352943	.058156	-0.61	0.544	-.1492887	.0787	
timew1w3	0 (omitted)						
w1WRATtotalcent42	.1321946	.0084222	15.70	0.000	.1156872	.1487019	
c.timew1w3#c.w1WRATtotalcent42	-.0068527	.0021513	-3.19	0.001	-.0110707	-.0026348	
timew1w3	0 (omitted)						
1.w1smoke	-.0492237	.1340241	-0.37	0.714	-.3141785	.2157311	
w1smoke#c.timew1w3							
1	-.0219054	.0304531	-0.72	0.472	-.0816918	.0378811	
timew1w3	0 (omitted)						
1.w1currdrugs	-.0640542	.1688842	-0.38	0.705	-.3956721	.2675636	
w1currdrugs#c.timew1w3							
1	.0249138	.0395908	0.63	0.529	-.0528744	.1027019	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	-.0027703	.0055686	-0.50	0.621	-.0139229	.0083823	
c.timew1w3#c.w1hei2010_total_scorecent43	-.0000675	.0014324	-0.05	0.963	-.0029701	.0028351	
timew1w3	0 (omitted)						
w1BMIcon30	-.0111841	.0076173	-1.47	0.142	-.0261303	.003762	
c.timew1w3#c.w1BMIcon30	.0020259	.0016919	1.20	0.231	-.0012904	.0053423	
timew1w3	0 (omitted)						
w1SRH							
2	.1925785	.1509292	1.28	0.202	-.1032377	.4883948	
3	.0724836	.1652376	0.44	0.661	-.2513806	.3963479	
w1SRH#c.timew1w3							
2	-.0047354	.035294	-0.13	0.893	-.0739108	.06444	
3	.0082472	.0383686	0.21	0.830	-.0669547	.0834492	
timew1w3	0 (omitted)						
w1CEScent15	.0023449	.0049899	0.47	0.638	-.0074369	.0121266	
c.timew1w3#c.w1CEScent15	-.0007782	.0011756	-0.66	0.508	-.0030829	.0015265	
timew1w3	0 (omitted)						
w1dxHTN							
Yes	.0553715	.1308635	0.42	0.672	-.2015727	.3123158	
w1dxHTN#c.timew1w3							
Yes	-.0263815	.0300628	-0.88	0.380	-.085336	.032573	
timew1w3	0 (omitted)						
w1dxDiabetes							

preDiabetes	.0163308	.1593398	0.10	0.918	-.2962221	.3288838
Diabetes	-.073852	.1742767	-0.42	0.672	-.4161372	.2684331
w1dxDiabetes#c.timew1w3						
preDiabetes	.02896	.0362794	0.80	0.425	-.0421556	.1000756
Diabetes	-.0557975	.0416501	-1.34	0.181	-.1375238	.0259288
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	.1809844	.1446333	1.25	0.212	-.1038348	.4658035
w1CVhighChol#c.timew1w3						
Yes	.0005833	.0333411	0.02	0.986	-.0647946	.0659611
timew1w3	0	(omitted)				
1.w1cvdbr	-.212889	.158776	-1.34	0.182	-.52689	.101112
w1cvdbr#c.timew1w3						
1	.0458703	.0379153	1.21	0.228	-.0291054	.120846
timew1w3	0	(omitted)				
invmillsmms	.0104642	.0028871	3.62	0.000	.0048056	.0161227
c.timew1w3#c.invmillsmms	-.0019521	.0006062	-3.22	0.001	-.0031402	-.0007639
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.0286242	.0711373	-0.40	0.687	-.1680518	.1108035
c.timew1w3#c.zw1w3HCYTRAJ	.0063037	.0160221	0.39	0.694	-.0251001	.0377074
_cons	27.43375	.2726063	100.64	0.000	26.89945	27.96805

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0518232	.	.
sd(_cons)	1.029677	.	.
corr(timew1w3,_cons)	-.9999997	.	.
sd(Residual)	1.097863	.	.

207 .

208 .

```
209 . 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##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Sex==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,534

Group variable: HNDID Number of groups = 812
 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(41,84318.0) = 13.28
 Prob > F = 0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1797312	.5534537	0.32	0.745	-.9050414 1.264504
w1Agecent48	-.1334908	.0526897	-2.53	0.011	-.2367655 -.0302162
c.timew1w3#c.w1Agecent48	-.0275628	.0130226	-2.12	0.034	-.053088 -.0020376
timew1w3	0 (omitted)				
Sex					
Women	0 (omitted)				
Sex#c.timew1w3					
Women	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	-4.562368	.9535173	-4.78	0.000	-6.431239 -2.693497
Race#c.timew1w3					
AfrAm	.168046	.2376868	0.71	0.480	-.2978145 .6339065
timew1w3	0 (omitted)				
PovStat					
Below	-.2024704	.9482406	-0.21	0.831	-2.060993 1.656053
PovStat#c.timew1w3					
Below	-.323544	.2297058	-1.41	0.159	-.7737595 .1266715
timew1w3	0 (omitted)				
w1edubr					
2	3.8768	1.859894	2.08	0.037	.2314542 7.522145
3	4.994336	2.021489	2.47	0.013	1.032228 8.956444
w1edubr#c.timew1w3					
2	-.5056377	.4583576	-1.10	0.270	-1.404006 .3927305
3	-.1079292	.4988489	-0.22	0.829	-1.08575 .8698919
timew1w3	0 (omitted)				
w1WRATtotalcent42	.9249317	.068008	13.60	0.000	.7916375 1.058226
c.timew1w3#c.w1WRATtotalcent42	-.0449715	.0183961	-2.44	0.015	-.0810346 -.0089084
timew1w3	0 (omitted)				
1.w1smoke	-1.055208	1.036924	-1.02	0.309	-3.092029 .9816139

w1smoke#c.timew1w3							
1	-.0329748	.2587189	-0.13	0.899	-.5405973	.4746478	
timew1w3	0	(omitted)					
1.w1currdrugs	-.4455175	1.356747	-0.33	0.743	-3.107658	2.216623	
w1currdrugs#c.timew1w3							
1	.189288	.3408101	0.56	0.579	-.4807391	.8593151	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.0155425	.0429088	-0.36	0.718	-.100483	.0693979	
c.timew1w3#c.w1hei2010_total_scorecent43							
	.0026852	.0125044	0.21	0.831	-.0227917	.0281621	
timew1w3	0	(omitted)					
w1BMIcon30	-.0739475	.0603426	-1.23	0.220	-.1922362	.0443411	
c.timew1w3#c.w1BMIcon30							
	.011582	.0144442	0.80	0.423	-.0167286	.0398926	
timew1w3	0	(omitted)					
w1SRH							
2	1.698249	1.21874	1.39	0.163	-.6904409	4.086939	
3	1.715202	1.334548	1.29	0.199	-.9005068	4.330911	
w1SRH#c.timew1w3							
2	-.0809687	.3026004	-0.27	0.789	-.6740558	.5121184	
3	-.0473021	.3290702	-0.14	0.886	-.6922745	.5976702	
timew1w3	0	(omitted)					
w1CEScent15							
	.016805	.0402892	0.42	0.677	-.0621732	.0957831	
c.timew1w3#c.w1CEScent15							
	-.0067177	.0100118	-0.67	0.502	-.0263416	.0129063	
timew1w3	0	(omitted)					
w1dxHTN							
Yes	.9203406	1.043399	0.88	0.378	-1.126153	2.966834	
w1dxHTN#c.timew1w3							
Yes	-.2753189	.2589371	-1.06	0.288	-.7832195	.2325816	
timew1w3	0	(omitted)					
w1dxDiabetes							
preDiabetes							
Diabetes	.1905759	1.275174	0.15	0.881	-2.309457	2.690609	
	-.273034	1.388143	-0.20	0.844	-2.996027	2.449959	
w1dxDiabetes#c.timew1w3							
preDiabetes							
Diabetes	.3388832	.309568	1.09	0.274	-.2678768	.9456431	
	-.4503728	.3537583	-1.27	0.203	-1.144106	.2433602	
timew1w3	0	(omitted)					
w1CVhighChol							
Yes	1.068106	1.13058	0.94	0.345	-1.150144	3.286355	
w1CVhighChol#c.timew1w3							
Yes	.1078009	.2867812	0.38	0.707	-.4546634	.6702652	
timew1w3	0	(omitted)					
1.w1cvdbr	-1.915086	1.314867	-1.46	0.149	-4.525857	.6956848	

w1cvdbr#c.timew1w3							
1	.34423	.3272626	1.05	0.295	-.3037985	.9922586	
timew1w3	0	(omitted)					
invmillsmms	.058412	.0233125	2.51	0.012	.0127203	.1041036	
c.timew1w3#c.invmillsmms	-.0095179	.0051973	-1.83	0.067	-.0197043	.0006686	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	-.296051	.5749418	-0.51	0.607	-1.42293	.8308283	
c.timew1w3#c.zw1w3HCYTRAJ	.0607052	.1374771	0.44	0.659	-.2087572	.3301676	
_cons	74.81068	2.209267	33.86	0.000	70.48045	79.14091	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.293495	.	.	.
sd(_cons)	7.610323	.	.	.
corr(timew1w3,_cons)	-1	.	.	.
sd(Residual)	9.484375	.	.	.

210 .
 211 .
 212 .
 213 . 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
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4bobs==1 & Sex==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,429

Group variable: HNDID

Number of groups	=	813
Obs per group:		
min	=	1
avg	=	1.8
max	=	2

Average RVI = 0.0527
 Largest FMI = 0.2461

DF adjustment: Large sample

DF:	min	=	77.70
	avg	=	50,835.35
	max	=	819,035.01

Model F test: Equal FMI

F(41, 54025.7)	=	22.15
Prob > F	=	0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-1.050798	.2262737	-4.64	0.000	-1.494304 -.6072923
w1Agecent48		-.1638992	.0265745	-6.17	0.000	-.2159942 -.1118041
c.timew1w3#c.w1Agecent48		-.0037143	.0057696	-0.64	0.520	-.0150265 .0075979
	timew1w3	0	(omitted)			
	Sex Women	0	(omitted)			
	Sex#c.timew1w3 Women	0	(omitted)			
	timew1w3	0	(omitted)			
	Race AfrAm	-2.826556	.4836407	-5.84	0.000	-3.774631 -1.878481
Race#c.timew1w3	AfrAm	.1105418	.1039458	1.06	0.288	-.093198 .3142815
	timew1w3	0	(omitted)			
	PovStat Below	-.2782957	.4737021	-0.59	0.557	-1.206753 .6501615
PovStat#c.timew1w3	Below	.0584624	.0995664	0.59	0.557	-.1366877 .2536126
	timew1w3	0	(omitted)			
	w1edubr 2	-1.12044	.9377709	-1.19	0.233	-2.962301 .7214215
	3	.8720331	1.008275	0.86	0.387	-1.106407 2.850473
w1edubr#c.timew1w3	2	.1302597	.182619	0.71	0.476	-.2276804 .4881997
	3	.0520161	.2030083	0.26	0.798	-.3459131 .4499452
	timew1w3	0	(omitted)			
w1WRATtotalcent42		.2569312	.0341394	7.53	0.000	.1900152 .3238473
c.timew1w3#c.w1WRATtotalcent42		-.0088757	.0073054	-1.21	0.224	-.0231945 .0054431
	timew1w3 1.w1smoke	0	(omitted)			
		-.0599852	.5304752	-0.11	0.910	-1.110485 .9905145
w1smoke#c.timew1w3	1	-.0561303	.1179836	-0.48	0.635	-.289214 .1769534
	timew1w3 1.w1currdrugs	0	(omitted)			
		.0730998	.7055609	0.10	0.918	-1.321742 1.467941
w1currdrugs#c.timew1w3	1	.2178705	.1596525	1.36	0.176	-.099287 .5350279
	timew1w3 w1hei2010_total_scorecent43	0	(omitted)			
		.0464757	.0221191	2.10	0.039	.0024372 .0905142
c.timew1w3#c.w1hei2010_total_scorecent43		-.007529	.0048563	-1.55	0.123	-.0171064 .0020483

	timew1w3	0	(omitted)				
w1BMIcon30		-.0048139	.0300463	-0.16	0.873	-.063708	.0540803
c.timew1w3#c.w1BMIcon30		-.0008319	.0062635	-0.13	0.894	-.0131082	.0114445
	timew1w3	0	(omitted)				
w1SRH							
2		.8885495	.6104704	1.46	0.146	-.308027	2.085126
3		.7896287	.6691848	1.18	0.238	-.5220831	2.10134
w1SRH#c.timew1w3							
2		-.3632102	.1293953	-2.81	0.005	-.6168254	-.1095949
3		-.2217859	.1405372	-1.58	0.115	-.4972341	.0536623
	timew1w3	0	(omitted)				
w1CEScent15		-.0639299	.0197805	-3.23	0.001	-.1026992	-.0251605
c.timew1w3#c.w1CEScent15		-.0115731	.0042553	-2.72	0.007	-.0199135	-.0032328
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.4393406	.5113819	0.86	0.390	-.5633855	1.442067
w1dxHTN#c.timew1w3							
Yes		-.0282577	.1113413	-0.25	0.800	-.2465598	.1900444
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.5408785	.6430593	-0.84	0.400	-1.802542	.7207855
Diabetes		.050689	.6939387	0.07	0.942	-1.310135	1.411513
w1dxDiabetes#c.timew1w3							
preDiabetes		.0699173	.1390892	0.50	0.615	-.2027646	.3425991
Diabetes		-.3520997	.1578455	-2.23	0.026	-.6623948	-.0418047
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.368294	.5508808	-0.67	0.504	-1.448116	.7115279
w1CVhighChol#c.timew1w3							
Yes		.2519192	.1263806	1.99	0.046	.0040556	.4997829
	timew1w3	0	(omitted)				
1.w1cvdbr		.4983335	.5772751	0.86	0.388	-.6332984	1.629965
w1cvdbr#c.timew1w3							
1		-.091794	.1284491	-0.71	0.475	-.3436766	.1600886
	timew1w3	0	(omitted)				
invmillsmms		.0258184	.0109871	2.35	0.019	.004284	.0473528
c.timew1w3#c.invmillsmms		.0009442	.0021208	0.45	0.656	-.0032126	.005101
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.8274775	.287191	2.88	0.004	.2645783	1.390377
c.timew1w3#c.zw1w3HCYTRAJ		-.0881992	.0608782	-1.45	0.147	-.207522	.0311235

	<u>_cons</u>	27.0352	1.126259	24.00	0.000	24.82249	29.24791
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3065852	.1547335	.1140023	.824496
sd(_cons)	4.336505	.1718917	4.01234	4.68686
sd(Residual)	3.72436	.1727019	3.400769	4.078741

```

214 .
215 .
216 .
217 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4cobs==1 & Sex==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 = 1,360
Number of groups = 803
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0496
Largest FMI = 0.2571
DF: min = 71.47
      avg = 221,486.67
      max = 2265779.68
F( 41,59458.7) = 14.54
Prob > F = 0.0000

```

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.3837197	.1062907	-3.61	0.000	-.5920487	-.1753907
w1Agecent48	-.0796638	.0128584	-6.20	0.000	-.1048673	-.0544603
c.timew1w3#c.w1Agecent48	-.0027768	.0027655	-1.00	0.315	-.0081974	.0026438
timew1w3	0 (omitted)					
Sex						
Women	0 (omitted)					
Sex#c.timew1w3						
Women	0 (omitted)					
timew1w3	0 (omitted)					
Race						
AfrAm	-1.632989	.2341192	-6.98	0.000	-2.091988	-1.17399
Race#c.timew1w3						
AfrAm	.0243737	.0502649	0.48	0.628	-.0741791	.1229266
timew1w3	0 (omitted)					

PovStat Below		- .1237354	.2289525	-0.54	0.589	- .5724758	.325005
PovStat#c.timew1w3 Below		- .0062885	.0473649	-0.13	0.894	- .0991238	.0865468
timew1w3		0	(omitted)				
w1edubr 2		- .2335026	.4390926	-0.53	0.595	-1.094189	.6271839
3		.4661062	.4755747	0.98	0.327	- .4660394	1.398252
w1edubr#c.timew1w3 2		.0344756	.0855406	0.40	0.687	- .1331911	.2021423
3		.0274723	.0947724	0.29	0.772	- .1582904	.213235
timew1w3 w1WRATtotalcent42		0	(omitted)				
c.timew1w3#c.w1WRATtotalcent42		.1059995	.0165561	6.40	0.000	.0735447	.1384543
timew1w3 1.w1smoke		0	(omitted)				
		-.0555336	.2445156	-0.23	0.820	- .5358891	.4248219
w1smoke#c.timew1w3 1		-.0286476	.0556884	-0.51	0.608	- .1384519	.0811568
timew1w3 1.w1currdrugs		0	(omitted)				
		.4222164	.3216043	1.31	0.189	- .2085675	1.053
w1currdrugs#c.timew1w3 1		-.0877596	.0770785	-1.14	0.259	- .2414323	.0659132
timew1w3 w1hei2010_total_scorecent43		0	(omitted)				
		.0192545	.0103037	1.87	0.063	- .0010807	.0395896
c.timew1w3#c.w1hei2010_total_scorecent43		-.0032638	.0022593	-1.44	0.149	- .0077056	.0011779
timew1w3 w1BMIcon30		0	(omitted)				
		.030515	.0144906	2.11	0.035	.0021138	.0589162
c.timew1w3#c.w1BMIcon30		-.003411	.0029853	-1.14	0.253	- .0092621	.0024401
timew1w3		0	(omitted)				
w1SRH 2		.332304	.2948788	1.13	0.260	- .2456563	.9102643
3		.0773619	.3232866	0.24	0.811	- .5562821	.7110059
w1SRH#c.timew1w3 2		-.0494404	.0617952	-0.80	0.424	- .1705581	.0716772
3		.0398898	.0673644	0.59	0.554	- .0921431	.1719228
timew1w3 w1CEScent15		0	(omitted)				
		-.028441	.0096278	-2.95	0.003	- .0473112	- .0095708
c.timew1w3#c.w1CEScent15		-.0006883	.002052	-0.34	0.737	- .004711	.0033344
timew1w3		0	(omitted)				
w1dxHTN Yes		.1439338	.2475274	0.58	0.561	- .3414517	.6293193

w1dxHTN#c.timew1w3 Yes		- .0032255	.052807	-0.06	0.951	-.1067385	.1002876
	timew1w3		0 (omitted)				
w1dxDiabetes preDiabetes Diabetes		-.3309234	.3017416	-1.10	0.273	-.9223756	.2605287
		-.5169288	.3356228	-1.54	0.124	-1.174884	.1410266
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0447511	.0649648	0.69	0.491	-.0825828	.1720849
	timew1w3		-.0407056	.0742243	-0.55	0.584	-.1864577
w1CVhighChol Yes		.027042	.2690418	0.10	0.920	-.5003966	.5544806
w1CVhighChol#c.timew1w3 Yes		.1120235	.0635467	1.76	0.079	-.0132885	.2373355
	timew1w3 1.w1cvdbr		0 (omitted)				
		.4762375	.2993532	1.59	0.113	-.1139998	1.066475
w1cvdbr#c.timew1w3 1		-.0892571	.0611526	-1.46	0.144	-.2091322	.0306179
	timew1w3 invmillsmms		0 (omitted)				
		.0113718	.0052567	2.16	0.031	.0010688	.0216748
c.timew1w3#c.invmillsmms		-.0001492	.0009703	-0.15	0.878	-.002051	.0017526
	timew1w3 zw1w3HCYTRAJ		0 (omitted)				
		.510815	.1393664	3.67	0.000	.2376602	.7839699
c.timew1w3#c.zw1w3HCYTRAJ		-.0509466	.0294081	-1.73	0.083	-.1085853	.0066922
	_cons	8.506063	.5227115	16.27	0.000	7.481552	9.530573

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0639929	.1617564	.0004514	9.072734	
sd(_cons)	2.098995	.0820458	1.944192	2.266125	
sd(Residual)	1.758616	.0810921	1.606649	1.924957	

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218 .
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220 .
221 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4dobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,591
Number of groups = 823
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0450
Largest FMI = 0.2063
DF: min = 108.73
      avg = 336,414.10
      max = 3793045.36
F( 41,69566.8) = 13.00
Prob > F = 0.0000

```

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.5797817	.1701128	3.41	0.001	.2463208	.9132427
w1Agecent48	.0918243	.0186981	4.91	0.000	.0551732	.1284754
c.timew1w3#c.w1Agecent48	.0086757	.0040364	2.15	0.032	.0007645	.016587
timew1w3	0	(omitted)				
Sex						
Women	0	(omitted)				
Sex#c.timew1w3						
Women	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	.754362	.3367934	2.24	0.025	.0942521	1.414472
Race#c.timew1w3						
AfrAm	.1701259	.0731509	2.33	0.020	.0267521	.3134996
timew1w3	0	(omitted)				
PovStat						
Below	.5249931	.3375512	1.56	0.120	-.1365989	1.186585
PovStat#c.timew1w3						
Below	.0029262	.0719263	0.04	0.968	-.1380469	.1438994
timew1w3	0	(omitted)				
w1edubr						
2	-.6205053	.6746914	-0.92	0.358	-1.943923	.7029121
3	-1.062846	.7385774	-1.44	0.150	-2.512161	.3864679

w1edubr#c.timew1w3						
2	-.2556706	.1394224	-1.83	0.067	-.5289336	.0175923
3	-.3170432	.1532465	-2.07	0.039	-.6174112	-.0166751
timew1w3	0 (omitted)					
w1WRATtotalcent42	-.1869488	.0245357	-7.62	0.000	-.2350671	-.1388305
c.timew1w3#c.w1WRATtotalcent42	.0001115	.0051993	0.02	0.983	-.0100792	.0103021
timew1w3	0 (omitted)					
1.w1smoke	.1453994	.3542767	0.41	0.682	-.5492202	.840019
w1smoke#c.timew1w3						
1	-.0184876	.0799028	-0.23	0.817	-.1751523	.1381772
timew1w3	0 (omitted)					
1.w1currdrugs	-.1813139	.4978007	-0.36	0.716	-1.162752	.8001239
w1currdrugs#c.timew1w3						
1	.0970946	.1105309	0.88	0.381	-.1210359	.3152251
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	-.0078064	.0148952	-0.52	0.601	-.0373291	.0217162
c.timew1w3#c.w1hei2010_total_scorecent43	-.0026664	.0034206	-0.78	0.437	-.0094227	.0040899
timew1w3	0 (omitted)					
w1BMIcontent30	-.0294827	.0211612	-1.39	0.164	-.0709587	.0119934
c.timew1w3#c.w1BMIcontent30	-.0006043	.004578	-0.13	0.895	-.0095774	.0083688
timew1w3	0 (omitted)					
w1SRH						
2	-.3670376	.4379082	-0.84	0.402	-1.225324	.4912492
3	-.8467404	.4780874	-1.77	0.077	-1.783775	.0902941
w1SRH#c.timew1w3						
2	-.033209	.0943334	-0.35	0.725	-.2181021	.1516841
3	.0016683	.1035918	0.02	0.987	-.201412	.2047486
timew1w3	0 (omitted)					
w1CEScent15						
.0232008	.0147192	1.58	0.115	-.0056745	.0520761	
c.timew1w3#c.w1CEScent15	.0010882	.0031095	0.35	0.726	-.0050062	.0071827
timew1w3	0 (omitted)					
w1dxHTN						
Yes	.7506076	.3616999	2.08	0.038	.0414564	1.459759
w1dxHTN#c.timew1w3						
Yes	-.0634321	.0793604	-0.80	0.424	-.2189795	.0921152
timew1w3	0 (omitted)					
w1dxDiabetes						
preDiabetes	.5650162	.469567	1.20	0.230	-.3587145	1.488747
Diabetes	-.1266926	.4972229	-0.25	0.799	-1.104135	.8507502
w1dxDiabetes#c.timew1w3						
preDiabetes	.0081572	.0990195	0.08	0.934	-.1859548	.2022692
Diabetes	.1910075	.1076669	1.77	0.076	-.0201025	.4021175

	timew1w3	0 (omitted)					
w1CVhighChol	Yes	.3893803	.4151647	0.94	0.349	-.4293812	1.208142
w1CVhighChol#c.timew1w3	Yes	-.1153148	.089451	-1.29	0.198	-.2907714	.0601418
timew1w3	1.w1cvdbr	.1512631	.4236447	0.36	0.721	-.6797694	.9822956
w1cvdbr#c.timew1w3	1	-.0743403	.0927875	-0.80	0.423	-.256215	.1075343
timew1w3	invmillsmms	-.0194885	.0082742	-2.36	0.019	-.0357056	-.0032714
c.timew1w3#c.invmillsmms		-.0003607	.0016668	-0.22	0.829	-.0036276	.0029062
timew1w3	zw1w3HCYTRAJ	-.1356879	.2032348	-0.67	0.504	-.5340234	.2626477
c.timew1w3#c.zw1w3HCYTRAJ		.0229078	.043159	0.53	0.596	-.0616845	.1075001
	_cons	7.051031	.8016871	8.80	0.000	5.478718	8.623344

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.6093349	.0940705	.4502223 .8246793
sd(_cons)	3.729102	.1989167	3.358892 4.140116
corr(timew1w3,_cons)	-.4969799	.0479698	-.5850767 -.3972906
sd(Residual)	2.175299	.2684592	1.707895 2.770619

222 .

223 .

224 . 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.w1BMIcon > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms //> c.timew1w3##c.zw1w3HCYTRAJ //> if sample4eobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,439

Group variable: HNDID

Number of groups = 812
Obs per group:

min = 1
avg = 1.8
max = 2

Average RVI = 0.0478
Largest FMI = 0.3519

DF adjustment: Large sample

DF: min = 39.16
avg = 381,966.75
max = 9081818.46

Model F test: Equal FMI

F(41, 60648.7) = 7.04
Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.077581	.0816582	-0.95	0.342	-.23763 .082468
w1Agecent48	-.0173824	.0089841	-1.93	0.053	-.0349915 .0002267
c.timew1w3#c.w1Agecent48	-.0022602	.0019872	-1.14	0.255	-.0061552 .0016348
timew1w3	0	(omitted)			
Sex Women	0	(omitted)			
Sex#c.timew1w3 Women	0	(omitted)			
timew1w3	0	(omitted)			
Race AfrAm	-.8399636	.1636388	-5.13	0.000	-1.160701 -.5192261
Race#c.timew1w3 AfrAm	.069825	.0361994	1.93	0.054	-.0011255 .1407755
timew1w3	0	(omitted)			
PovStat Below	-.3274893	.1641271	-2.00	0.046	-.649179 -.0057995
PovStat#c.timew1w3 Below	-.0074279	.0353947	-0.21	0.834	-.0768004 .0619447
timew1w3	0	(omitted)			
w1edubr 2	.2483042	.3193549	0.78	0.437	-.3776206 .874229
3	.1522882	.3470973	0.44	0.661	-.5280321 .8326085
w1edubr#c.timew1w3 2	.067263	.067453	1.00	0.319	-.0649457 .1994716
3	.0377387	.0739839	0.51	0.610	-.1072717 .182749
timew1w3 w1WRATtotalcent42	0	(omitted)			
w1WRATtotalcent42	.0762588	.0119117	6.40	0.000	.0529089 .0996087
c.timew1w3#c.w1WRATtotalcent42	.005498	.00263	2.09	0.037	.0003433 .0106527
timew1w3 1.w1smoke	0	(omitted)			
1.w1smoke	.0011341	.2038227	0.01	0.996	-.4110808 .413349
w1smoke#c.timew1w3 1	-.0149854	.0397273	-0.38	0.706	-.092962 .0629912
timew1w3 1.w1currdrugs	0	(omitted)			
1.w1currdrugs	.4768812	.226142	2.11	0.035	.0335167 .9202456
w1currdrugs#c.timew1w3 1	-.1152337	.0515713	-2.23	0.026	-.2164331 -.0140343
timew1w3 w1hei2010_total_scorecent43	0	(omitted)			
w1hei2010_total_scorecent43	-.0020335	.0071637	-0.28	0.777	-.0162041 .0121372
c.timew1w3#c.w1hei2010_total_scorecent43	.0004174	.0016192	0.26	0.797	-.0027697 .0036044

	timew1w3	0	(omitted)				
w1BMIcon30		- .0218559	.0103474	-2.11	0.035	-.0421391	-.0015727
c.timew1w3#c.w1BMIcon30		-.0002378	.0022153	-0.11	0.914	-.0045798	.0041041
	timew1w3	0	(omitted)				
w1SRH							
2		.691316	.2123921	3.25	0.001	.2750234	1.107609
3		.6929104	.2316859	2.99	0.003	.2388042	1.147017
w1SRH#c.timew1w3							
2		-.1094598	.0460579	-2.38	0.017	-.1997317	-.0191879
3		-.0610244	.0500419	-1.22	0.223	-.1591074	.0370586
	timew1w3	0	(omitted)				
w1CEScent15		-.0034473	.006867	-0.50	0.616	-.0169071	.0100126
c.timew1w3#c.w1CEScent15		-.0010064	.0014982	-0.67	0.502	-.0039429	.0019302
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0567447	.1801119	0.32	0.753	-.2967894	.4102789
w1dxHTN#c.timew1w3							
Yes		-.012105	.0393975	-0.31	0.759	-.0893544	.0651445
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.2691619	.2164962	-1.24	0.214	-.693521	.1551972
Diabetes		-.3067949	.2574954	-1.19	0.236	-.8162852	.2026955
w1dxDiabetes#c.timew1w3							
preDiabetes		.0571619	.0476367	1.20	0.230	-.0362046	.1505284
Diabetes		.0066783	.0546598	0.12	0.903	-.1007545	.1141112
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.0774413	.2212036	0.35	0.728	-.366978	.5218606
w1CVhighChol#c.timew1w3							
Yes		.0115549	.0459087	0.25	0.801	-.0788593	.101969
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0435828	.2177505	-0.20	0.842	-.4739059	.3867403
w1cvdbr#c.timew1w3							
1		.0456831	.0473863	0.96	0.336	-.047557	.1389233
	timew1w3	0	(omitted)				
invmillsmms		.0027745	.0037925	0.73	0.464	-.0046587	.0102077
c.timew1w3#c.invmillsmms		-.0011895	.0007537	-1.58	0.114	-.0026667	.0002876
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0880926	.0991065	0.89	0.374	-.106153	.2823382
c.timew1w3#c.zw1w3HCYTRAJ		-.015699	.0215027	-0.73	0.465	-.0578435	.0264455

	<u>_cons</u>	6.673854	.3819322	17.47	0.000	5.925271	7.422436
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0976973	.1564642	.0042331	2.2548
sd(_cons)	1.450874	.1384885	1.203319	1.749358
corr(timew1w3,_cons)	-.1510276	.3236177	-.6647503	.4596707
sd(Residual)	1.333235	.1291961	1.102609	1.612101

225 .
226 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4fobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,594
Group variable: HNDID		
Number of groups	=	821
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0512
Largest FMI	=	0.3029
DF adjustment: Large sample	DF:	
min	=	52.23
avg	=	2144989.35
max	=	9.08e+07
Model F test: Equal FMI	F(41, 53951.8)	= 6.28
	Prob > F	= 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.1391501	.1626936	-0.86	0.392	-.4580281	.1797279
w1Agecent48	-.0846565	.0201789	-4.20	0.000	-.1242066	-.0451064
c.timew1w3#c.w1Agecent48	-.0018055	.004039	-0.45	0.655	-.0097244	.0061134
timew1w3	0	(omitted)				
Sex						
Women	0	(omitted)				
Sex#c.timew1w3						
Women	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	-1.950584	.3699621	-5.27	0.000	-2.675742	-1.225425
Race#c.timew1w3						
AfrAm	-.016257	.0722231	-0.23	0.822	-.1578135	.1252995
timew1w3	0	(omitted)				

PovStat Below		- .7187826	.3687698	-1.95	0.051	-1.441567	.0040014
PovStat#c.timew1w3 Below		.0172289	.070579	0.24	0.807	-.1211049	.1555627
timew1w3		0	(omitted)				
w1edubr 2		-.9855159	.7183857	-1.37	0.170	-2.393533	.4225008
3		.2790688	.7795467	0.36	0.720	-1.248835	1.806973
w1edubr#c.timew1w3 2		.178055	.1345291	1.32	0.186	-.0856212	.4417311
3		.1756324	.1479835	1.19	0.235	-.1144174	.4656823
timew1w3 w1WRATtotalcent42		0	(omitted)				
c.timew1w3#c.w1WRATtotalcent42		.1513252	.0263222	5.75	0.000	.0997313	.2029192
timew1w3 1.w1smoke		0	(omitted)				
w1smoke#c.timew1w3 1		-.5747111	.4325431	-1.33	0.190	-1.442581	.2931588
timew1w3 1.w1currdrugs		0	(omitted)				
w1currdrugs#c.timew1w3 1		.8275565	.514532	1.61	0.108	-.1837437	1.838857
timew1w3 w1hei2010_total_scorecent43		0	(omitted)				
c.timew1w3#c.w1hei2010_total_scorecent43		.0230328	.0156699	1.47	0.145	-.0080307	.0540962
timew1w3 w1BMIcon30		0	(omitted)				
c.timew1w3#c.w1BMIcon30		.0205308	.0231111	0.89	0.374	-.0247699	.0658315
timew1w3 w1SRH		0	(omitted)				
2		.1120019	.4765549	0.24	0.814	-.8220823	1.046086
3		.7162159	.5212268	1.37	0.169	-.3054755	1.737907
w1SRH#c.timew1w3 2		.0277319	.0920607	0.30	0.763	-.1527039	.2081677
3		-.0529637	.0995555	-0.53	0.595	-.2480892	.1421618
timew1w3 w1CEScent15		0	(omitted)				
c.timew1w3#c.w1CEScent15		-.0304792	.0155195	-1.96	0.050	-.0609003	-.0000582
timew1w3 w1dxHTN		0	(omitted)				
Yes		.7759252	.4023389	1.93	0.054	-.0140774	1.565928

w1dxHTN#c.timew1w3 Yes		-.0550715	.0792635	-0.69	0.487	-.2105122	.1003691
	timew1w3		0 (omitted)				
w1dxDiabetes preDiabetes Diabetes		-.6118807	.4933492	-1.24	0.215	-1.579812	.3560506
		-.3725781	.5387296	-0.69	0.490	-1.43104	.6858842
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0402438	.0961149	0.42	0.675	-.1481559	.2286435
	timew1w3		0 (omitted)				
w1CVhighChol Yes		-.1450911	.4695787	-0.31	0.758	-1.081441	.7912583
w1CVhighChol#c.timew1w3 Yes		.1340896	.0935945	1.43	0.154	-.0505234	.3187026
	timew1w3 1.w1cvdbr		0 (omitted)				
		.2175858	.4554069	0.48	0.633	-.6767679	1.11194
w1cvdbr#c.timew1w3 1		-.026503	.0918031	-0.29	0.773	-.2065101	.1535041
	timew1w3 invmillsmms		0 (omitted)				
		.0137724	.0090472	1.52	0.128	-.0039598	.0315047
c.timew1w3#c.invmillsmms		-.002444	.0016103	-1.52	0.129	-.0056001	.0007122
	timew1w3 zw1w3HCYTRAJ		0 (omitted)				
		-.2007697	.2213168	-0.91	0.364	-.6345455	.233006
c.timew1w3#c.zw1w3HCYTRAJ		-.0360019	.0422374	-0.85	0.394	-.1187876	.0467837
	_cons	19.80691	.864152	22.92	0.000	18.11251	21.5013

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.3095081	.1690216	.1061218	.9026915	
sd(_cons)	3.837703	.205404	3.45551	4.262168	
corr(timew1w3,_cons)	-.1480794	.1637885	-.4441565	.1771555	
sd(Residual)	2.747187	.214213	2.357825	3.200847	

```

227 .
228 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

```

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations	=	5
Number of obs	=	1,562
Number of groups	=	819
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	.
Largest FMI	=	.
DF: min	=	0.00
avg	=	.
max	=	.
F(41,51347.9)	=	6.96
Prob > F	=	0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0022358	.0660759	0.03	0.973	-.1272801 .1317517
w1Agecent48	.0023426	.0079486	0.29	0.768	-.0132389 .0179241
c.timew1w3##c.w1Agecent48	- .0046203	.0016158	-2.86	0.004	-.0077875 -.0014532
timew1w3	0 (omitted)				
Sex					
Women	0 (omitted)				
Sex#c.timew1w3					
Women	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	-.3202502	.1436927	-2.23	0.026	-.6019012 -.0385992
Race#c.timew1w3					
AfrAm	.0035247	.0292621	0.12	0.904	-.0538282 .0608777
timew1w3	0 (omitted)				
PovStat					
Below	-.0918826	.1430682	-0.64	0.521	-.3722968 .1885316
PovStat#c.timew1w3					
Below	-.0151037	.0285203	-0.53	0.596	-.0710031 .0407956
timew1w3	0 (omitted)				
w1edubr					
2	.0438922	.2819798	0.16	0.876	-.5088034 .5965878
3	.2519944	.3065399	0.82	0.411	-.3489022 .8528909
w1edubr#c.timew1w3					
2	.017682	.0536408	0.33	0.742	-.087452 .1228161

	3	- .0221143	.0591569	-0.37	0.709	-.1380634	.0938347
	timew1w3	0	(omitted)				
w1WRATtotalcent42		.116921	.0104545	11.18	0.000	.0964148	.1374271
c.timew1w3#c.w1WRATtotalcent42		-.0012953	.0020972	-0.62	0.537	-.0054057	.0028151
	timew1w3	0	(omitted)				
1.w1smoke		.3374934	.1730642	1.95	0.058	-.0119939	.6869808
w1smoke#c.timew1w3							
1		-.013146	.0323967	-0.41	0.685	-.0767396	.0504477
	timew1w3	0	(omitted)				
1.w1currdrugs		.232836	.2071618	1.12	0.263	-.1764761	.6421481
w1currdrugs#c.timew1w3							
1		-.0078235	.0425928	-0.18	0.854	-.0915166	.0758696
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0002297	.0061622	-0.04	0.970	-.0124494	.01199
c.timew1w3#c.w1hei2010_total_scorecent43		.000701	.001286	0.55	0.586	-.0018223	.0032242
	timew1w3	0	(omitted)				
w1BMIconcept30		-.0076111	.0090943	-0.84	0.403	-.025443	.0102207
c.timew1w3#c.w1BMIconcept30		-.0042207	.0018078	-2.33	0.020	-.0077644	-.000677
	timew1w3	0	(omitted)				
w1SRH							
2		-.0219284	.185196	-0.12	0.906	-.3849074	.3410507
3		.2313349	.2024807	1.14	0.253	-.1655369	.6282066
w1SRH#c.timew1w3							
2		.0099995	.0374887	0.27	0.790	-.0634782	.0834772
3		-.020698	.0406664	-0.51	0.611	-.1004099	.059014
	timew1w3	0	(omitted)				
w1CEScent15		0	(omitted)				
c.timew1w3#c.w1CEScent15		.0002092	.0060237	0.03	0.972	-.0115974	.0120158
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.1828923	.1528019	1.20	0.231	-.1166274	.4824121
w1dxHTN#c.timew1w3							
Yes		.0116207	.0320609	0.36	0.717	-.0512457	.074487
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.1181266	.1934573	-0.61	0.542	-.4977829	.2615297
Diabetes		-.2927235	.2079902	-1.41	0.160	-.7008332	.1153862
w1dxDiabetes#c.timew1w3							
preDiabetes		.0257162	.0389876	0.66	0.510	-.0507006	.1021329
Diabetes		.0605672	.0445065	1.36	0.174	-.0268305	.1479648
	timew1w3	0	(omitted)				

w1CVhighChol Yes		-.1371083	.175608	-0.78	0.436	-.4843822	.2101656
w1CVhighChol#c.timew1w3 Yes		-.0075668	.0358077	-0.21	0.833	-.0778033	.0626698
timew1w3 1.w1cvdbr		0 (omitted)	-.1562856	.1789656	-0.87	0.383	-.5080209
w1cvdbr#c.timew1w3 1		.0375313	.037504	1.00	0.317	-.0360785	.111141
timew1w3 invmillsmms		0 (omitted)	.0074878	.0035194	2.13	0.033	.0005899
c.timew1w3#c.invmillsmms		-.0006021	.0006423	-0.94	0.349	-.0018609	.0006568
timew1w3 zw1w3HCYTRAJ		0 (omitted)	-.1108277	.0860814	-1.29	0.198	-.2795442
c.timew1w3#c.zw1w3HCYTRAJ		-.0073717	.017126	-0.43	0.667	-.0409387	.0261953
_cons		7.012159	.3370613	20.80	0.000	6.351346	7.672972

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0318757	.	.
sd(_cons)	1.412415	.	.
corr(timew1w3,_cons)	.998902	.	.
sd(Residual)	1.172495	.	.

229 .
230 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,557

Group variable: HNDID

Number of groups	=	819
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(41, 44720.0)	=	10.76
Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.1068323	.0682323	-1.57	0.117	-.2405967 .0269321
w1Agecent48	-.0055706	.0078471	-0.71	0.478	-.0209514 .0098102
c.timew1w3#c.w1Agecent48	-.0021496	.0016608	-1.29	0.196	-.0054048 .0011056
timew1w3	0	(omitted)			
Sex Women	0	(omitted)			
Sex#c.timew1w3 Women	0	(omitted)			
timew1w3	0	(omitted)			
Race AfrAm	-.5328257	.1408711	-3.78	0.000	-.8089315 -.25672
Race#c.timew1w3 AfrAm	-.0112045	.0299571	-0.37	0.708	-.0699204 .0475113
timew1w3	0	(omitted)			
PovStat Below	-.1805698	.140894	-1.28	0.200	-.4567221 .0955825
PovStat#c.timew1w3 Below	.0129768	.0291255	0.45	0.656	-.0441082 .0700619
timew1w3	0	(omitted)			
w1edubr 2	-.2773135	.276885	-1.00	0.317	-.8200071 .2653801
3	-.0870496	.3012427	-0.29	0.773	-.6775165 .5034172
w1edubr#c.timew1w3 2	.1174759	.0553278	2.12	0.034	.0090347 .2259171
3	.0648039	.0608422	1.07	0.287	-.0544477 .1840555
timew1w3 w1WRATtotalcent42	0	(omitted)			
	.1331136	.0101514	13.11	0.000	.1132155 .1530118
c.timew1w3#c.w1WRATtotalcent42	-.0018075	.0021809	-0.83	0.407	-.0060825 .0024675
timew1w3 1.w1smoke	0	(omitted)			
	-.0282974	.1653661	-0.17	0.865	-.3580833 .3014885
w1smoke#c.timew1w3 1	.0397369	.0345656	1.15	0.252	-.0284355 .1079093
timew1w3 1.w1currdrugs	0	(omitted)			
	.1962614	.2065631	0.95	0.343	-.2112808 .6038036
w1currdrugs#c.timew1w3 1	-.0099686	.0450173	-0.22	0.825	-.0987484 .0788112
timew1w3 w1hei2010_total_scorecent43	0	(omitted)			
	-.0001165	.005738	-0.02	0.984	-.0113737 .0111408
c.timew1w3#c.w1hei2010_total_scorecent43	.0025227	.0014575	1.73	0.088	-.0003818 .0054272

	timew1w3	0	(omitted)				
w1BMIcon30		.000762	.0089227	0.09	0.932	-.0167272	.0182512
c.timew1w3#c.w1BMIcon30		-.004828	.0018571	-2.60	0.009	-.0084682	-.0011879
	timew1w3	0	(omitted)				
w1SRH							
2		-.0105882	.183368	-0.06	0.954	-.3700065	.34883
3		.3155648	.2022394	1.56	0.119	-.0809785	.712108
w1SRH#c.timew1w3							
2		-.0344744	.0382835	-0.90	0.368	-.1095097	.0405608
3		-.0470166	.0416103	-1.13	0.259	-.1285763	.0345431
	timew1w3	0	(omitted)				
w1CEScent15		.002746	.005917	0.46	0.643	-.0088511	.0143432
c.timew1w3#c.w1CEScent15		-.0014002	.0012538	-1.12	0.264	-.0038578	.0010573
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.1541552	.1507629	-1.02	0.307	-.4496544	.1413441
w1dxHTN#c.timew1w3							
Yes		.0652073	.0326112	2.00	0.046	.001282	.1291327
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.1791216	.1972835	0.91	0.365	-.2089315	.5671748
Diabetes		-.1405109	.2087076	-0.67	0.501	-.5504768	.269455
w1dxDiabetes#c.timew1w3							
preDiabetes		-.003504	.040093	-0.09	0.930	-.0820864	.0750785
Diabetes		-.0001757	.045181	-0.00	0.997	-.0888272	.0884758
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.1292138	.1715707	-0.75	0.452	-.4671642	.2087365
w1CVhighChol#c.timew1w3							
Yes		.0143815	.0373002	0.39	0.700	-.0588671	.0876302
	timew1w3	0	(omitted)				
1.w1cvdbr		.0199321	.2009569	0.10	0.921	-.3838888	.423753
w1cvdbr#c.timew1w3							
1		.037456	.0406641	0.92	0.359	-.0429484	.1178604
	timew1w3	0	(omitted)				
invmillsmms		.0054308	.0034559	1.57	0.116	-.0013426	.0122043
c.timew1w3#c.invmillsmms		.0001256	.0006615	0.19	0.849	-.0011709	.001422
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0349052	.0856302	-0.41	0.684	-.2027381	.1329278
c.timew1w3#c.zw1w3HCYTRAJ		.0100987	.0175949	0.57	0.566	-.0243876	.0445851

	<u>_cons</u>	6.064532	.3318192	18.28	0.000	5.414013	6.715052
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0139512	.	.
sd(_cons)	1.334602	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.212101	.	.

231 .
 232 . 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.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4iobs==1 & Sex==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,596
Group variable: HNDID		
Number of groups	=	823
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0474
Largest FMI	=	0.2519
DF adjustment: Large sample	DF:	min = 74.31 avg = 185,230.01 max = 3632661.71
Model F test: Equal FMI	F(41, 62844.3)	= 4.86 Prob > F = 0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0859242	.0527699	-1.63	0.104	-.1893713 .0175229
w1Agecent48	-.0007555	.0048653	-0.16	0.877	-.0102931 .0087821
c.timew1w3##c.w1Agecent48	-.0015627	.0012751	-1.23	0.220	-.0040621 .0009367
timew1w3	0	(omitted)			
Sex					
Women	0	(omitted)			
Sex##c.timew1w3					
Women	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-.3717086	.0872453	-4.26	0.000	-.5427071 -.2007101
Race##c.timew1w3					
AfrAm	.0254629	.0230943	1.10	0.270	-.0198051 .0707309
timew1w3	0	(omitted)			

PovStat Below		- .0719284	.0876366	-0.82	0.412	-.2436957	.0998389
PovStat#c.timew1w3 Below		- .011831	.0225232	-0.53	0.599	-.0559761	.0323141
timew1w3		0	(omitted)				
w1edubr 2		.0336252	.1783301	0.19	0.850	-.3163206	.3835709
3		.3057414	.1918982	1.59	0.111	-.0706321	.6821149
w1edubr#c.timew1w3 2		.0467557	.0438125	1.07	0.286	-.039132	.1326433
3		.040518	.0480289	0.84	0.399	-.05363	.1346661
timew1w3 w1WRATtotalcent42		0	(omitted)				
		.0311388	.0062577	4.98	0.000	.0188737	.043404
c.timew1w3#c.w1WRATtotalcent42		-.0003571	.0016459	-0.22	0.828	-.0035836	.0028694
timew1w3 1.w1smoke		0	(omitted)				
		-.0982178	.1022306	-0.96	0.339	-.3007774	.1043418
w1smoke#c.timew1w3 1		.0563676	.0263395	2.14	0.034	.0044367	.1082985
timew1w3 1.w1currdrugs		0	(omitted)				
		.4314283	.1322911	3.26	0.001	.1702474	.6926093
w1currdrugs#c.timew1w3 1		-.0773642	.0318185	-2.43	0.015	-.1397293	-.0149992
timew1w3 w1hei2010_total_scorecent43		0	(omitted)				
		.0004856	.0040535	0.12	0.905	-.0075673	.0085384
c.timew1w3#c.w1hei2010_total_scorecent43		.0018754	.0010603	1.77	0.079	-.0002179	.0039687
timew1w3 w1BMIcon30		0	(omitted)				
		-.0025082	.0056091	-0.45	0.655	-.0135069	.0084905
c.timew1w3#c.w1BMIcon30		.0002781	.0014357	0.19	0.846	-.0025362	.0030924
timew1w3		0	(omitted)				
w1SRH 2		.0271264	.1131914	0.24	0.811	-.1947248	.2489775
3		-.1071	.1235845	-0.87	0.386	-.3493216	.1351216
w1SRH#c.timew1w3 2		.0176127	.0296757	0.59	0.553	-.0405517	.075777
3		.0436223	.0321127	1.36	0.174	-.0193189	.1065636
timew1w3 w1CEScent15		0	(omitted)				
		-.0061318	.0037227	-1.65	0.100	-.0134296	.0011659
c.timew1w3#c.w1CEScent15		.0006613	.0009649	0.69	0.493	-.00123	.0025525
timew1w3		0	(omitted)				
w1dxHTN Yes		.0668238	.0968808	0.69	0.490	-.1232677	.2569154

w1dxHTN#c.timew1w3						
Yes		-.0384496	.0251717	-1.53	0.127	-.0877955
	timew1w3		0 (omitted)			
w1dxDiabetes						
preDiabetes		-.000031	.1181588	-0.00	1.000	-.231796
Diabetes		.0060606	.1424904	0.04	0.966	-.2778378
w1dxDiabetes#c.timew1w3						
preDiabetes		.0176292	.0308363	0.57	0.568	-.0428376
Diabetes		-.0401985	.035446	-1.13	0.258	-.1099284
	timew1w3		0 (omitted)			
w1CVhighChol						
Yes		-.0337607	.1085977	-0.31	0.756	-.2477065
w1CVhighChol#c.timew1w3						
Yes		.0125802	.0278478	0.45	0.651	-.0420292
	timew1w3		0 (omitted)			
1.w1cvdbr		-.0926355	.1112253	-0.83	0.405	-.3108603
w1cvdbr#c.timew1w3						
1		.0088611	.0298714	0.30	0.767	-.0498031
	timew1w3		0 (omitted)			
invmillsmms		.0004013	.0021547	0.19	0.852	-.0038219
c.timew1w3#c.invmillsmms						
		-.000145	.0005201	-0.28	0.780	-.0011645
	timew1w3		0 (omitted)			
zw1w3HCYTRAJ		-.0710792	.0525295	-1.35	0.176	-.1740353
c.timew1w3#c.zw1w3HCYTRAJ						
		.0031026	.0134933	0.23	0.818	-.023344
	_cons	8.838304	.2092623	42.24	0.000	8.427898
						9.248709

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1009719	.0434118	.0434739	.2345156
sd(_cons)	.6904202	.0800125	.5501313	.866484
corr(timew1w3,_cons)	-.2885618	.1881645	-.6039192	.1049126
sd(Residual)	.8860404	.0566665	.7816546	1.004366

```

233 .
234 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4jobs==1 & Sex==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 = 1,573
Number of groups = 818
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0463
Largest FMI = 0.2940
DF: min = 55.32
      avg = 925,621.31
      max = 1.45e+07
F( 41,67106.6) = 7.35
Prob > F = 0.0000

```

	LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0116398	.0138181	0.84	0.400	.0154434	.038723
w1Agecent48	.0113594	.0014274	7.96	0.000	.0085617	.0141571
c.timew1w3#c.w1Agecent48	.0000643	.0003341	0.19	0.847	-.0005905	.0007191
timew1w3	0	(omitted)				
Sex						
Women	0	(omitted)				
Sex#c.timew1w3						
Women	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	.1424633	.0257376	5.54	0.000	.0920183	.1929083
Race#c.timew1w3						
AfrAm	.0021478	.0059904	0.36	0.720	-.0095933	.0138888
timew1w3	0	(omitted)				
PovStat						
Below	.0604692	.0258022	2.34	0.019	.0098978	.1110406
PovStat#c.timew1w3						
Below	.0002664	.0058805	0.05	0.964	-.0112592	.011792
timew1w3	0	(omitted)				
w1edubr						
2	-.0629334	.0516084	-1.22	0.223	-.1640988	.0382319
3	-.0036738	.055783	-0.07	0.947	-.1130126	.105665
w1edubr#c.timew1w3						
2	-.0117854	.0113804	-1.04	0.300	-.0340912	.0105205

	3	- .0185869	.0124765	-1.49	0.136	-.0430406	.0058668
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		-.0073657	.0018588	-3.96	0.000	-.0110089	-.0037226
c.timew1w3#c.w1WRATTtotalcent42		-.0005807	.0004307	-1.35	0.178	-.001425	.0002635
	timew1w3	0	(omitted)				
1.w1smoke		.010168	.0276323	0.37	0.713	-.0440572	.0643932
w1smoke#c.timew1w3							
1		.0035254	.0065643	0.54	0.591	-.0093439	.0163946
	timew1w3	0	(omitted)				
1.w1currdrugs		.027009	.0384397	0.70	0.483	-.0489364	.1029544
w1currdrugs#c.timew1w3							
1		-.0047292	.0084787	-0.56	0.577	-.0213553	.0118968
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0003992	.0012082	0.33	0.742	-.0020217	.0028201
c.timew1w3#c.w1hei2010_total_scorecent43		.0001431	.0002811	0.51	0.611	-.0004125	.0006987
	timew1w3	0	(omitted)				
w1BMIconcept30		.0027416	.0016348	1.68	0.094	-.000463	.0059463
c.timew1w3#c.w1BMIconcept30		-.0006489	.0003703	-1.75	0.080	-.0013746	.0000768
	timew1w3	0	(omitted)				
w1SRH							
2		-.0846929	.0335143	-2.53	0.012	-.1503799	-.0190059
3		-.0433681	.036456	-1.19	0.234	-.114821	.0280848
w1SRH#c.timew1w3							
2		-.0025788	.0077431	-0.33	0.739	-.017755	.0125973
3		-.0060518	.0083731	-0.72	0.470	-.022463	.0103593
	timew1w3	0	(omitted)				
w1CEScent15							
timew1w3		.0022512	.0010938	2.06	0.040	.0001073	.0043951
c.timew1w3#c.w1CEScent15		-.0000331	.0002531	-0.13	0.896	-.0005291	.0004629
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.0084446	.0292729	-0.29	0.773	-.0660456	.0491564
w1dxHTN#c.timew1w3							
Yes		.0033315	.0066937	0.50	0.619	-.0097977	.0164608
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.013488	.0344041	0.39	0.695	-.0539676	.0809436
Diabetes		.0086025	.0385724	0.22	0.824	-.0671971	.0844021
w1dxDiabetes#c.timew1w3							
preDiabetes		.0135706	.007956	1.71	0.088	-.0020243	.0291655
Diabetes		.008738	.0088244	0.99	0.322	-.0085577	.0260337
	timew1w3	0	(omitted)				

w1CVhighChol Yes	- .0146817	.0318435	-0.46	0.645	- .0774422	.0480789
w1CVhighChol#c.timew1w3 Yes	.008169	.0077704	1.05	0.294	- .0071519	.0234898
timew1w3 1.w1cvdbr	0 .0286752	(omitted) .0358815	0.80	0.427	- .0428993	.1002497
w1cvdbr#c.timew1w3 1	.0007626	.0077021	0.10	0.921	- .0143503	.0158755
timew1w3 invmillsmms	0 -.0006417	(omitted) .0006294	-1.02	0.308	- .0018754	.0005919
c.timew1w3#c.invmillsmms	-.0001022	.0001338	-0.76	0.445	- .0003644	.00016
timew1w3 zw1w3HCYTRAJ	0 .0324415	(omitted) .015454	2.10	0.036	.0021515	.0627315
c.timew1w3#c.zw1w3HCYTRAJ	-.0073919	.0034925	-2.12	0.034	- .0142371	- .0005466
_cons	3.392245	.0614924	55.17	0.000	3.271702	3.512789

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0247628	.0068614	.0143862
sd(_cons)	.2348433	.009626	.2167147
sd(Residual)	.2295771	.0096728	.2113803
			.2493402

235 .

```
236 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4kobs==1 & Sex==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 1,517
Group variable: HNDID	Number of groups = 812
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = 0.0561
	Largest FMI = 0.2982
	DF: min = 53.83
	avg = 105,115.80
	max = 2057233.34
Model F test: Equal FMI	F(41, 45589.1) = 12.01
	Prob > F = 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0323399	.0230742	1.40	0.161	-.0129608 .0776407
w1Agecent48	.0125838	.0025344	4.97	0.000	.0076163 .0175512
c.timew1w3#c.w1Agecent48	.0011429	.000537	2.13	0.033	.0000903 .0021955
timew1w3	0	(omitted)			
Sex Women	0	(omitted)			
Sex#c.timew1w3 Women	0	(omitted)			
timew1w3	0	(omitted)			
Race AfrAm	.3429304	.0456899	7.51	0.000	.2533783 .4324824
Race#c.timew1w3 AfrAm	-.0017403	.0095952	-0.18	0.856	-.0205466 .0170659
timew1w3	0	(omitted)			
PovStat Below	.0841712	.0459516	1.83	0.067	-.0058951 .1742375
PovStat#c.timew1w3 Below	.0028718	.009545	0.30	0.764	-.0158367 .0215804
timew1w3	0	(omitted)			
w1edubr 2	.0049396	.0910938	0.05	0.957	-.1736135 .1834928
3	-.0415841	.0985345	-0.42	0.673	-.2347134 .1515451
w1edubr#c.timew1w3 2	-.0102126	.0185445	-0.55	0.582	-.0465639 .0261387
3	-.0165075	.0203325	-0.81	0.417	-.056369 .023354
timew1w3 w1WRATtotalcent42	0	(omitted)			
w1WRATtotalcent42	-.0254002	.003341	-7.60	0.000	-.0319487 -.0188516
c.timew1w3#c.w1WRATtotalcent42	-.0003601	.0007226	-0.50	0.618	-.0017765 .0010563
timew1w3 1.w1smoke	0	(omitted)			
1.w1smoke	-.0259939	.0550952	-0.47	0.639	-.136461 .0844732
w1smoke#c.timew1w3 1	.0094018	.0112948	0.83	0.406	-.0129127 .0317164
timew1w3 1.w1currdrugs	0	(omitted)			
1.w1currdrugs	-.0027505	.068325	-0.04	0.968	-.1379791 .1324781
w1currdrugs#c.timew1w3 1	-.0241732	.0142818	-1.69	0.092	-.0522902 .0039438
timew1w3 w1hei2010_total_scorecent43	0	(omitted)			
w1hei2010_total_scorecent43	.000472	.0018851	0.25	0.802	-.0032316 .0041757
c.timew1w3#c.w1hei2010_total_scorecent43	-.0000795	.0004495	-0.18	0.860	-.0009668 .0008077

	timew1w3	0	(omitted)				
w1BMIcon30		- .0022348	.0028652	-0.78	0.435	- .0078506	.003381
c.timew1w3#c.w1BMIcon30		- .000756	.0005923	-1.28	0.202	- .001917	.0004049
	timew1w3	0	(omitted)				
w1SRH							
2		-.1195279	.0599959	-1.99	0.046	- .2371393	- .0019164
3		-.1134322	.0654587	-1.73	0.083	- .2417684	.014904
w1SRH#c.timew1w3							
2		-.0020655	.012558	-0.16	0.869	- .0266809	.0225499
3		-.0079087	.0137964	-0.57	0.567	- .0349616	.0191442
	timew1w3	0	(omitted)				
w1CEScent15		.0069826	.002001	3.49	0.001	.0030543	.0109109
c.timew1w3#c.w1CEScent15		- .0001304	.0004081	-0.32	0.749	- .0009304	.0006697
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0485819	.0493663	0.98	0.325	- .0482108	.1453747
w1dxHTN#c.timew1w3							
Yes		-.0075866	.010528	-0.72	0.471	- .0282228	.0130496
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.1880159	.0598465	3.14	0.002	.0707104	.3053214
Diabetes		.1524608	.0683681	2.23	0.026	.0179934	.2869282
w1dxDiabetes#c.timew1w3							
preDiabetes		-.0254387	.0127303	-2.00	0.046	- .0503944	- .000483
Diabetes		.0017258	.0146321	0.12	0.906	- .0269885	.0304402
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.0397427	.0569478	0.70	0.486	- .0727423	.1522277
w1CVhighChol#c.timew1w3							
Yes		-.0181961	.0120837	-1.51	0.133	- .0419225	.0055303
	timew1w3	0	(omitted)				
1.w1cvdbr		-.1085594	.0570506	-1.90	0.057	- .2205183	.0033996
w1cvdbr#c.timew1w3							
1		.0100655	.0121498	0.83	0.407	- .0137572	.0338883
	timew1w3	0	(omitted)				
invmillsmms		-.0035316	.0011133	-3.17	0.002	- .0057137	- .0013496
c.timew1w3#c.invmillsmms		-.0005345	.0015769	-0.34	0.735	- .0036251	.0025561
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0392262	.0273471	-1.43	0.151	- .0928263	.0143739
c.timew1w3#c.zw1w3HCYTRAJ		.0075589	.0055058	1.37	0.170	- .003233	.0183508

	<u>_cons</u>	4.392616	.1095525	40.10	0.000	4.177809	4.607422
--	--------------	-----------------	-----------------	--------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0600018	.0199334	.0312859	.1150745
sd(_cons)	.4848119	.0316027	.4266586	.5508914
corr(timew1w3,_cons)	-.5195878	.0633412	-.632656	-.3848305
sd(Residual)	.3189157	.039633	.2499651	.4068858

```

237 .
238 .
239 . save, replace
      file finaldata_imputed_FINAL.dta saved

240 .
241 .
242 .
243 . *****
244 . *****TABLE 3: HOMOCYSTEINE TRAJECTORY VS. COGNITIVE CHANGE OVER TIME: MEN*****
245 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
246 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,087

Number of groups = 586
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI =
Largest FMI =
DF: min = 0.00
    avg =
    max =
F( 11, .) = 7.48
Prob > F = 0.0000

```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0367874	.0309142	1.19	0.234	-.0238033 .097378
w1Agecent48	-.041095	.0110945	-3.70	0.000	-.0628398 -.0193502
c.timew1w3#c.w1Agecent48	-.000636	.0021043	-0.30	0.762	-.0047604 .0034883
timew1w3			0 (omitted)		
Sex					
Men			0 (omitted)		
Sex#c.timew1w3					
Men			0 (omitted)		
timew1w3			0 (omitted)		

Race						
AfrAm	-.6308525	.1973182	-3.20	0.001	-1.017589	-.2441159
Race#c.timew1w3						
AfrAm	-.0422193	.0383795	-1.10	0.271	-.1174418	.0330032
timew1w3	0	(omitted)				
PovStat						
Below	-.6902991	.2082108	-3.32	0.001	-1.098385	-.2822134
PovStat#c.timew1w3						
Below	.0096068	.0393203	0.24	0.807	-.0674596	.0866732
timew1w3	0	(omitted)				
invmillsmms	-.0047784	.0112042	-0.43	0.670	-.0267382	.0171815
c.timew1w3#c.invmillsmms	-.0019366	.0019786	-0.98	0.328	-.0058147	.0019415
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.1285549	.0814521	-1.58	0.114	-.288198	.0310883
c.timew1w3#c.zw1w3HCYTRAJ	.0108879	.0155376	0.70	0.483	-.0195652	.041341
_cons	28.24318	.1569374	179.96	0.000	27.93559	28.55077

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.1711716	.	.
sd(_cons)	1.920218	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.303992	.	.

```

247 .
248 .
249 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Number of imputations = 5
Number of observations = 1,087

Number of groups = 586
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI = 0.0000
    Largest FMI = 0.0000
    DF: min = 4.40e+65
        avg = 4.40e+65
        max = .
    F( 11, 2.0e+68) = 8.16
    Prob > F = 0.0000

```

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1262637	.2331345	0.54	0.588	-.3306714 .5831989
w1Agecent48	-.3244038	.0765693	-4.24	0.000	-.4744768 -.1743307
c.timew1w3#c.w1Agecent48	-.0046452	.015764	-0.29	0.768	-.0355421 .0262518
timew1w3	0	(omitted)			
Sex					
Men	0	(omitted)			
Sex#c.timew1w3					
Men	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-5.455843	1.36188	-4.01	0.000	-8.125079 -2.786607
Race#c.timew1w3					
AfrAm	-.2667894	.288544	-0.92	0.355	-.8323253 .2987466
timew1w3	0	(omitted)			
PovStat					
Below	-5.214067	1.437592	-3.63	0.000	-8.031695 -2.396439
PovStat#c.timew1w3					
Below	-.148734	.2943397	-0.51	0.613	-.7256291 .4281612
timew1w3	0	(omitted)			
invmillsmms	-.0260951	.0773742	-0.34	0.736	-.1777457 .1255555
c.timew1w3#c.invmillsmms	-.014878	.014655	-1.02	0.310	-.0436014 .0138453
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.6394555	.5620175	-1.14	0.255	-1.74099 .4620787
c.timew1w3#c.zw1w3HCYTRAJ	.033001	.116941	0.28	0.778	-.1961991 .2622012
_cons	81.16473	1.082328	74.99	0.000	79.04341 83.28606

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.6510155	.1725742	.3872138	1.09454
sd(_cons)	12.23357	.644259	11.03383	13.56377
corr(timew1w3,_cons)	-.9999998	.0000484	-1	1
sd(Residual)	10.36037	.3377692	9.71906	11.04399

```

250 .
251 .
252 .
253 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4bobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =      5
Number of obs    = 1,006

Group variable: HNDID
Number of groups  =     578
Obs per group:
min =          1
avg =         1.7
max =          2
Average RVI      = 0.0000
Largest FMI      = 0.0000
DF adjustment: Large sample
DF: min =       .
avg =       .
max =       .

Model F test: Equal FMI
F( 11,      .) = 57.19
Prob > F = 0.0000

```

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.209673	.0932316	-12.97	0.000	-1.392403 -1.026942
w1Agecent48	-.1461775	.0308048	-4.75	0.000	-.2065538 -.0858012
c.timew1w3#c.w1Agecent48	-.0164498	.0061405	-2.68	0.007	-.028485 -.0044146
timew1w3	0	(omitted)			
Sex					
Men	0	(omitted)			
Sex#c.timew1w3					
Men	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-2.060742	.5474825	-3.76	0.000	-3.133788 -.9876963
Race#c.timew1w3					
AfrAm	.0324446	.1115369	0.29	0.771	-.1861637 .2510529
timew1w3	0	(omitted)			
PovStat					
Below	-1.343802	.5687435	-2.36	0.018	-2.458519 -.2290852
PovStat#c.timew1w3					
Below	-.1264398	.1106805	-1.14	0.253	-.3433696 .09049
timew1w3	0	(omitted)			
invmillsmms	-.0222783	.035766	-0.62	0.533	-.0923785 .0478218
c.timew1w3#c.invmillsmms	-.0082097	.0068149	-1.20	0.228	-.0215667 .0051473
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.0289781	.2256418	0.13	0.898	-.4132718 .471228

c.timew1w3#c.zw1w3HCYTRAJ	-.0308421	.0440584	-0.70	0.484	-.1171949	.0555108
_cons	25.20365	.4402523	57.25	0.000	24.34077	26.06653

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0637075	.7461149	6.84e-12	5.93e+08
sd(_cons)	4.672293	.2024902	4.291808	5.08651
sd(Residual)	3.73449	.1896666	3.380653	4.125361

254 .
 255 .
 256 .
 257 . mi estimate: mixed CVLfr1 c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4cobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	953

Group variable: HNDID

Number of groups	=	562
Obs per group:		
min	=	1
avg	=	1.7
max	=	2
Average RVI	=	0.0000
Largest FMI	=	0.0000

DF adjustment: Large sample

DF:	min	=	4.89e+57
	avg	=	3.82e+63
	max	=	.

Model F test: Equal FMI

F(11, 1.8e+66)	=	31.48
Prob > F	=	0.0000

CVLfr1	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.4023877	.0471934	-8.53	0.000	-.494885 -.3098904
w1Agecent48	-.0888448	.0142181	-6.25	0.000	-.1167118 -.0609778
c.timew1w3#c.w1Agecent48	-.0056712	.00312	-1.82	0.069	-.0117862 .0004438
timew1w3		0 (omitted)			
Sex					
Men		0 (omitted)			
Sex#c.timew1w3					
Men		0 (omitted)			
timew1w3		0 (omitted)			
Race					
AfrAm	-1.213078	.253192	-4.79	0.000	-1.709325 -.7168308
Race#c.timew1w3					
AfrAm	.0247068	.0566418	0.44	0.663	-.086309 .1357226
timew1w3		0 (omitted)			

PovStat Below	-.3284864	.2622856	-1.25	0.210	-.8425567	.1855839
PovStat#c.timew1w3 Below	-.0602575	.0561973	-1.07	0.284	-.1704021	.0498871
timew1w3 invmillsmms	0 -.0041245	(omitted) .0174442	-0.24	0.813	-.0383146	.0300655
c.timew1w3#c.invmillsmms	-.0031558	.0034195	-0.92	0.356	-.0098579	.0035464
timew1w3 zw1w3HCYTRAJ	0 .0990208	(omitted) .1053614	0.94	0.347	-.1074837	.3055253
c.timew1w3#c.zw1w3HCYTRAJ	-.0260512	.0224196	-1.16	0.245	-.0699928	.0178903
_cons	7.640889	.2034039	37.57	0.000	7.242225	8.039553

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0621751	.1993539	.000116	33.33107
sd(_cons)	1.966213	.1000969	1.779497	2.172521
sd(Residual)	1.839398	.095066	1.662198	2.035488

258 .
 259 .
 260 .
 261 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4dobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5	
Number of obs	=	1,129	
Group variable: HNDID	Number of groups	=	589
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
DF adjustment: Large sample	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	DF: min	=	2.02e+63
	avg	=	2.02e+63
	max	=	.
Model F test: Equal FMI	F(11, 6.2e+65)	=	24.57
	Prob > F	=	0.0000

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.3128648	.063311	4.94	0.000	.1887774 .4369521
w1Agecent48	.1521788	.022382	6.80	0.000	.1083108 .1960468
c.timew1w3#c.w1Agecent48	.0106907	.0043637	2.45	0.014	.002138 .0192434
timew1w3	0 (omitted)				
Sex					
Men	0 (omitted)				
Sex#c.timew1w3					
Men	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	.5352385	.3990597	1.34	0.180	-.2469041 1.317381
Race#c.timew1w3					
AfrAm	.1694688	.0781468	2.17	0.030	.016304 .3226336
timew1w3	0 (omitted)				
PovStat					
Below	.820119	.4190256	1.96	0.050	-.001156 1.641394
PovStat#c.timew1w3					
Below	.1127065	.0805578	1.40	0.162	-.0451838 .2705968
timew1w3	0 (omitted)				
invmillsmms	.0128532	.0235962	0.54	0.586	-.0333944 .0591009
c.timew1w3#c.invmillsmms	.000293	.0044655	0.07	0.948	-.0084591 .0090452
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	.159839	.1637355	0.98	0.329	-.1610766 .4807546
c.timew1w3#c.zw1w3HCYTRAJ	.0771832	.0314304	2.46	0.014	.0155807 .1387857
_cons	5.146863	.318691	16.15	0.000	4.522241 5.771486

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.7230869	.0746752	.5905878 .8853123
sd(_cons)	4.386253	.1874309	4.033858 4.769433
corr(timew1w3,_cons)	-.4169818	.0501064	-.5101328 -.3141622
sd(Residual)	1.617043	.3135297	1.105813 2.364622

```

262 .
263 .
264 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4eobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =      5
Number of obs    =  1,021

Group variable: HNDID
Number of groups =     580
Obs per group:
min =          1
avg =         1.8
max =          2
Average RVI      =  0.0000
Largest FMI      =  0.0000
DF: min = 1.28e+57
           avg = 1.28e+57
           max =
Model F test: Equal FMI
F( 11,      .) =   6.18
Prob > F        = 0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.022244	.033413	-0.67	0.506	-.0877324 .0432443
	w1Agecent48	-.0192033	.0100745	-1.91	0.057	-.0389489 .0005423
c.timew1w3#c.w1Agecent48		-.0045127	.0022361	-2.02	0.044	-.0088953 -.0001301
	timew1w3		0	(omitted)		
	Sex					
	Men		0	(omitted)		
	Sex#c.timew1w3					
	Men		0	(omitted)		
	timew1w3		0	(omitted)		
	Race					
	AfrAm	-.7626933	.1824571	-4.18	0.000	-1.120303 -.405084
Race#c.timew1w3						
	AfrAm	.0141305	.0410303	0.34	0.731	-.0662875 .0945484
	timew1w3		0	(omitted)		
	PovStat					
	Below	-.00068	.1901327	-0.00	0.997	-.3733333 .3719733
PovStat#c.timew1w3						
	Below	-.1168239	.0417536	-2.80	0.005	-.1986594 -.0349884
	timew1w3		0	(omitted)		
	invmillsmms	-.005487	.0118682	-0.46	0.644	-.0287481 .0177742
c.timew1w3#c.invmillsmms		.002786	.0024601	1.13	0.257	-.0020358 .0076078
	timew1w3		0	(omitted)		
	zw1w3HCYTRAJ	-.1310286	.0749307	-1.75	0.080	-.27789 .0158329
c.timew1w3#c.zw1w3HCYTRAJ		-.0214103	.0165176	-1.30	0.195	-.0537842 .0109636

_cons	7.104299	.1453557	48.88	0.000	6.819408	7.389191
-------	-----------------	-----------------	--------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0480106	.4364755	8.77e-10	2629073
sd(_cons)	1.404237	.1940306	1.071089	1.841006
corr(timew1w3,_cons)	.8101834	8.972089	-1	1
sd(Residual)	1.424508	.1697897	1.127739	1.799373

265 .

266 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4fobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,147

Group variable: HNDID

Number of groups	=	593
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(11, .)	=	5.21
Prob > F	=	0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0421338	.0681083	0.62	0.536	-.091356	.1756236
w1Agecent48	-.1036006	.0260717	-3.97	0.000	-.1547001	-.0525011
c.timew1w3#c.w1Agecent48	-.0057041	.0046051	-1.24	0.215	-.0147299	.0033218
timew1w3		0 (omitted)				
Sex						
Men		0 (omitted)				
Sex#c.timew1w3						
Men		0 (omitted)				
timew1w3		0 (omitted)				
Race						
AfrAm	-1.599362	.46467	-3.44	0.001	-2.510099	-.6886259
Race#c.timew1w3						
AfrAm	-.0069317	.0842102	-0.08	0.934	-.1719806	.1581172
timew1w3		0 (omitted)				
PovStat						

Below	-1.205221	.4880192	-2.47	0.014	-2.161721	-.2487206
PovStat#c.timew1w3						
Below	.0335764	.0852221	0.39	0.694	-.1334559	.2006087
timew1w3		0 (omitted)				
invmillsmms	-.0355807	.0332491	-1.07	0.285	-.1007477	.0295864
c.timew1w3#c.invmillsmms	.0108805	.0061074	1.78	0.075	-.0010898	.0228509
timew1w3		0 (omitted)				
zw1w3HCYTRAJ	-.164838	.1907724	-0.86	0.388	-.538745	.209069
c.timew1w3#c.zw1w3HCYTRAJ	-.0441375	.0332904	-1.33	0.185	-.1093856	.0211105
_cons	21.03093	.3683447	57.10	0.000	20.30899	21.75287

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0266115	.	.
sd(_cons)	4.460138	.	.
corr(timew1w3,_cons)	-.9999997	.	.
sd(Residual)	3.1404	.	.

267 .
268 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 1,124
Group variable: HNDID	Number of groups = 593
	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(11, .) = 6.27
	Prob > F = 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0174375	.0262946	0.66	0.507	-.0340989
w1Agecent48	-.0335759	.0103098	-3.26	0.001	-.0537827
c.timew1w3#c.w1Agecent48	-.0031584	.0017626	-1.79	0.073	-.0066129
timew1w3		0 (omitted)			
Sex					
Men		0 (omitted)			

Sex#c.timew1w3						
Men		0 (omitted)				
timew1w3		0 (omitted)				
Race						
AfrAm	-.6857281	.1837967	-3.73	0.000	-1.045963	-.3254931
Race#c.timew1w3						
AfrAm	-.0383654	.0323057	-1.19	0.235	-.1016835	.0249527
timew1w3		0 (omitted)				
PovStat						
Below	-.552927	.1932197	-2.86	0.004	-.9316306	-.1742234
PovStat#c.timew1w3						
Below	-.0505605	.0327317	-1.54	0.122	-.1147135	.0135925
timew1w3		0 (omitted)				
invmillsmms	-.011507	.0120709	-0.95	0.340	-.0351655	.0121516
c.timew1w3#c.invmillsmms	.0016306	.0021983	0.74	0.458	-.002678	.0059392
timew1w3		0 (omitted)				
zw1w3HCYTRAJ	-.0780699	.0753628	-1.04	0.300	-.2257783	.0696385
c.timew1w3#c.zw1w3HCYTRAJ	-.0153913	.0127486	-1.21	0.227	-.040378	.0095955
_cons	8.062223	.1460091	55.22	0.000	7.776051	8.348396

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0089666	.	.
sd(_cons)	1.808411	.	.
corr(timew1w3,_cons)	.9999999	.	.
sd(Residual)	1.19262	.	.

269 .

270 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,116

Group variable: HNDID

Number of groups	=	594
Obs per group:		

min =	1
avg =	1.9
max =	2

Average RVI	=	0.0000
Largest FMI	=	0.0000

DF adjustment: Large sample

DF:	min	=	.
	avg	=	.
	max	=	.

Model F test: Equal FMI

F(11,	.)	=	8.68
Prob > F	=			0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0143323	.0273498	0.52	0.600	-.0392723 .0679369
w1Agecent48	-.0333739	.010008	-3.33	0.001	-.0529891 -.0137586
c.timew1w3#c.w1Agecent48	-.0023372	.0018345	-1.27	0.203	-.0059328 .0012583
timew1w3	0 (omitted)				
Sex Men	0 (omitted)				
Sex#c.timew1w3 Men	0 (omitted)				
timew1w3	0 (omitted)				
Race AfrAm	-1.001888	.1791055	-5.59	0.000	-1.352928 -.6508476
Race#c.timew1w3 AfrAm	-.0413908	.0337748	-1.23	0.220	-.1075882 .0248065
timew1w3	0 (omitted)				
PovStat Below	-.5093778	.1886147	-2.70	0.007	-.8790557 -.1396998
PovStat#c.timew1w3 Below	-.0226023	.0342391	-0.66	0.509	-.0897097 .044505
timew1w3 invmillsmms	0 (omitted)				
	.0045893	.0118976	0.39	0.700	-.0187296 .0279083
c.timew1w3#c.invmillsmms	-.0044643	.0022602	-1.98	0.048	-.0088943 -.0000343
timew1w3 zw1w3HCYTRAJ	0 (omitted)				
	-.1601567	.0731502	-2.19	0.029	-.3035285 -.0167849
c.timew1w3#c.zw1w3HCYTRAJ	7.83e-06	.0132556	0.00	1.000	-.0259726 .0259883
_cons	6.401293	.1417396	45.16	0.000	6.123489 6.679097

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0036228	.0199678	7.37e-08	178.0766
sd(_cons)	1.697246	.076909	1.553007	1.854881
corr(timew1w3,_cons)	-.9999422	.0277629	-1	1
sd(Residual)	1.240304	.0385561	1.166992	1.318222

```

271 .
272 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4iobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,140
Number of groups = 591
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI =
Largest FMI =
DF: min = 0.00
    avg =
    max =
F( 11, 7.3e+65) = 3.59
Prob > F = 0.0000

```

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0173668	.021398	-0.81	0.417	-.059306 .0245725
w1Agecent48	-.0119499	.0056315	-2.12	0.034	-.0229875 -.0009123
c.timew1w3##c.w1Agecent48	-.0012512	.0014559	-0.86	0.390	-.0041047 .0016023
timew1w3	0	(omitted)			
Sex					
Men	0	(omitted)			
Sex#c.timew1w3					
Men	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-.3298737	.1002045	-3.29	0.001	-.526271 -.1334764
Race#c.timew1w3					
AfrAm	.0190749	.026412	0.72	0.470	-.0326917 .0708416
timew1w3	0	(omitted)			
PovStat					
Below	.1892405	.1057778	1.79	0.074	-.0180801 .3965612
PovStat#c.timew1w3					
Below	-.0064874	.0269104	-0.24	0.809	-.0592308 .046256
timew1w3	0	(omitted)			
invmillsmms	.0028453	.0071346	0.40	0.690	-.0111382 .0168289
c.timew1w3##c.invmillsmms	-.0012621	.0016359	-0.77	0.440	-.0044685 .0019442
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.0619227	.0412411	-1.50	0.133	-.1427539 .0189084
c.timew1w3##c.zw1w3HCYTRAJ	-.0126576	.0103826	-1.22	0.223	-.0330072 .0076919

<u>_cons</u>	9.014895	.0792352	113.77	0.000	8.859597	9.170193
--------------	-----------------	-----------------	---------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0056444	.	.
sd(_cons)	.628138	.	.
corr(timew1w3,_cons)	-.9999999	.	.
sd(Residual)	1.0051	.	.

273 .

274 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStatBelow
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4jobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	1,097
Group variable: HNDID	Number of groups	=	579
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
DF adjustment: Large sample	DF:	min	= 3.04e+63
		avg	= 3.04e+63
		max	= .
Model F test: Equal FMI	F(11, 4.3e+65)	=	15.14
	Prob > F	=	0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0068608	.0055758	1.23	0.219	-.0040675 .0177891
w1Agecent48	.0119864	.001819	6.59	0.000	.0084212 .0155515
c.timew1w3#c.w1Agecent48	.0009726	.0003818	2.55	0.011	.0002243 .0017209
timew1w3		0 (omitted)			
Sex					
Men		0 (omitted)			
Sex#c.timew1w3					
Men		0 (omitted)			
timew1w3		0 (omitted)			
Race					
AfrAm	.2232648	.0322197	6.93	0.000	.1601153 .2864143
Race#c.timew1w3					
AfrAm	-.0083977	.0068759	-1.22	0.222	-.0218741 .0050788
timew1w3		0 (omitted)			
PovStat					
Below	.084565	.0341119	2.48	0.013	.0177068 .1514231

PovStat#c.timew1w3						
Below	.0033443	.0070372	0.48	0.635	-.0104485	.017137
timew1w3	0 (omitted)					
invmillsmms	.0081886	.0021603	3.79	0.000	.0039546	.0124227
c.timew1w3#c.invmillsmms	-.0007443	.0004315	-1.73	0.085	-.00159	.0001013
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	.0313643	.0133247	2.35	0.019	.0052483	.0574802
c.timew1w3#c.zw1w3HCYTRAJ	.0028947	.0027291	1.06	0.289	-.0024542	.0082437
_cons	3.347403	.0255004	131.27	0.000	3.297423	3.397383

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0186098	.0119103	.0053085	.0652394
sd(_cons)	.2817859	.0128252	.2577376	.308078
sd(Residual)	.2445949	.012419	.2214261	.2701879

275 .
276 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4kobs==1 & Sex==2 || HNDID: timew1w3, cov(un)
Multiple-imputation estimates
Mixed-effects ML regression
Group variable: HNDID
DF adjustment: Large sample
Model F test:

	Imputations = 5
	Number of obs = 1,061
	Number of groups = 571
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
Average RVI	= 0.0000
Largest FMI	= 0.0000
DF: min	= 8.54e+60
avg	= 3.48e+62
max	= .
F(11, 4.4e+65)	= 19.42
Prob > F	= 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0013685	.0075927	0.18	0.857	-.013513 .01625
w1Agecent48	.0228045	.0028931	7.88	0.000	.0171342 .0284749
c.timew1w3#c.w1Agecent48	.0000329	.0005269	0.06	0.950	-.0009997 .0010655
timew1w3	0 (omitted)				
Sex					
Men	0 (omitted)				
Sex#c.timew1w3					
Men	0 (omitted)				

	timew1w3	0 (omitted)					
Race	AfrAm	.3708671	.0512279	7.24	0.000	.2704623	.471272
Race#c.timew1w3	AfrAm	.0037846	.0094733	0.40	0.690	-.0147828	.0223519
	timew1w3	0 (omitted)					
PovStat	Below	.2911394	.0541716	5.37	0.000	.1849649	.3973139
PovStat#c.timew1w3	Below	-.0032205	.0098419	-0.33	0.743	-.0225103	.0160693
	timew1w3	0 (omitted)					
invmillsmms		.0064327	.003352	1.92	0.055	-.0001371	.0130024
c.timew1w3#c.invmillsmms		-.0014509	.000602	-2.41	0.016	-.0026307	-.000271
	timew1w3	0 (omitted)					
zw1w3HCYTRAJ		.0674133	.0212903	3.17	0.002	.0256851	.1091416
c.timew1w3#c.zw1w3HCYTRAJ		.0067283	.0038468	1.75	0.080	-.0008112	.0142678
_cons		4.281074	.0406411	105.34	0.000	4.201419	4.360729

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0675269	.0131819	.046059 .0990009
sd(_cons)	.5367155	.0259529	.4881847 .5900707
corr(timew1w3,_cons)	-.3838041	.0700726	-.5121051 -.2387496
sd(Residual)	.2497859	.0367287	.1872434 .3332185

```

277 .
278 .
279 . save, replace
      file finaldata_imputed_FINAL.dta saved

280 .
281 .
282 .
283 //MODEL 2: MODEL 1 + OTHER FACTORS + BODY MASS INDEX///
284 .

```

285 . 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 ///
> if sample4aobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 1,087
Group variable: HNDID	Number of groups = 586
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = .
	Largest FMI = .
	DF: min = 0.00
	avg = .
	max = .
Model F test: Equal FMI	F(25, 48670.3) = 18.71
	Prob > F = 0.0000

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1607444	.0848042	1.90	0.058	-.0056047 .3270936
w1Agecent48	-.026972	.0093812	-2.88	0.004	-.0453591 -.0085849
c.timew1w3#c.w1Agecent48	-.0017359	.0020709	-0.84	0.402	-.005795 .0023231
timew1w3	0 (omitted)				
Sex					
Men	0 (omitted)				
Sex#c.timew1w3					
Men	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	-.0253972	.1713994	-0.15	0.882	-.361348 .3105536
Race#c.timew1w3					
AfrAm	-.0613248	.0389961	-1.57	0.116	-.1377558 .0151061
timew1w3	0 (omitted)				
PovStat					
Below	-.0789308	.1793215	-0.44	0.660	-.430397 .2725355
PovStat#c.timew1w3					
Below	-.0139669	.039723	-0.35	0.725	-.091823 .0638892
timew1w3	0 (omitted)				
w1edubr					
2	.3660515	.3529101	1.04	0.300	-.3257296 1.057833
3	.7793437	.3888734	2.00	0.045	.0169596 1.541728
w1edubr#c.timew1w3					
2	-.0576407	.0828729	-0.70	0.487	-.2201093 .1048279
3	-.1199892	.0897818	-1.34	0.181	-.2960062 .0560278

	timew1w3	0	(omitted)				
w1WRATtotalcent42		.1598827	.0112762	14.18	0.000	.1377783	.1819871
c.timew1w3#c.w1WRATtotalcent42		-.0084903	.0027408	-3.10	0.002	-.0138634	-.0031173
	timew1w3	0	(omitted)				
1.w1smoke		.1369663	.1976939	0.69	0.489	-.2530793	.5270119
w1smoke#c.timew1w3		-.0858535	.0440382	-1.95	0.052	-.1723174	.0006104
	timew1w3	0	(omitted)				
1.w1currdrugs		-.0766666	.2146024	-0.36	0.721	-.5007249	.347393
w1currdrugs#c.timew1w3		.013868	.0476283	0.29	0.771	-.0798711	.1076071
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0071236	.0080693	-0.88	0.379	-.0230447	.0087975
c.timew1w3#c.w1hei2010_total_scorecent43		.0018217	.0018436	0.99	0.323	-.0017926	.005436
	timew1w3	0	(omitted)				
w1BMICent30		.0106592	.0140972	0.76	0.450	-.0169711	.0382894
c.timew1w3#c.w1BMICent30		-.0039122	.0031324	-1.25	0.212	-.0100515	.0022271
	timew1w3	0	(omitted)				
invmillsmms		-.0081238	.0092471	-0.88	0.380	-.0262479	.0100002
c.timew1w3#c.invmillsmms		-.0017453	.0019124	-0.91	0.361	-.0054935	.002003
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0098751	.0674881	0.15	0.884	-.1223998	.14215
c.timew1w3#c.zw1w3HCYTRAJ		.0011666	.0150951	0.08	0.938	-.0284196	.0307529
	_cons	27.021	.3583819	75.40	0.000	26.31827	27.72372

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.1456806	.	.
sd(_cons)	1.405648	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.27014	.	.

```

286 .
287 .
288 . 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 ///
> if sample4aobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,087

Number of groups = 586
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI =
    Largest FMI =
    DF: min = 0.00
    avg =
    max =
F( 25,46744.0) = 16.56
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.8810836	.6440166	1.37	0.171	.3816982	2.143865
w1Agecent48	-.2276799	.0670468	-3.40	0.001	-.3590919	-.0962679
c.timew1w3#c.w1Agecent48	-.0112138	.0156875	-0.71	0.475	-.0419613	.0195337
timew1w3	0 (omitted)					
Sex						
Men	0 (omitted)					
Sex#c.timew1w3						
Men	0 (omitted)					
timew1w3	0 (omitted)					
Race						
AfrAm	-1.861351	1.221299	-1.52	0.127	-4.255092	.5323895
Race#c.timew1w3						
AfrAm	-.2321994	.2973117	-0.78	0.435	-.8149214	.3505227
timew1w3	0 (omitted)					
PovStat						
Below	-1.094439	1.281	-0.85	0.393	-3.605171	1.416293
PovStat#c.timew1w3						
Below	-.1807587	.3019776	-0.60	0.549	-.7726333	.4111158
timew1w3	0 (omitted)					
w1edubr						
2	3.357289	2.505245	1.34	0.180	-1.552988	8.267565
3	7.2918	2.757559	2.64	0.008	1.886731	12.69687
w1edubr#c.timew1w3						
2	-.5029115	.6300855	-0.80	0.425	-1.737964	.7321412

	3	-.9246148	.6805644	-1.36	0.174	-2.258616	.4093868
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		.9758663	.0804513	12.13	0.000	.8181664	1.133566
c.timew1w3#c.w1WRATTtotalcent42		-.0177407	.0211693	-0.84	0.402	-.0592451	.0237637
	timew1w3	0	(omitted)				
1.w1smoke		.5037651	1.455456	0.35	0.730	-2.382799	3.390329
	w1smoke#c.timew1w3	0	(omitted)				
1		-.5674349	.3414878	-1.66	0.098	-1.239151	.1042813
	timew1w3	0	(omitted)				
1.w1currdrugs		.3513705	1.527684	0.23	0.818	-2.665639	3.36838
	w1currdrugs#c.timew1w3	0	(omitted)				
1		.0242101	.3656463	0.07	0.947	-.6963872	.7448074
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0454619	.0587359	-0.77	0.440	-.1616282	.0707044
c.timew1w3#c.w1hei2010_total_scorecent43		.0150806	.0142184	1.06	0.289	-.012805	.0429662
	timew1w3	0	(omitted)				
w1BMIcon30		.0495826	.1009411	0.49	0.623	-.1482644	.2474295
c.timew1w3#c.w1BMIcon30		-.0240097	.0237955	-1.01	0.313	-.0706485	.0226292
	timew1w3	0	(omitted)				
invmillsmms		-.0442119	.0660996	-0.67	0.504	-.1737647	.0853409
c.timew1w3#c.invmillsmms		-.0150188	.0143722	-1.04	0.296	-.0431878	.0131501
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.2399179	.4817104	0.50	0.618	-.7042193	1.184055
c.timew1w3#c.zw1w3HCYTRAJ		-.0096439	.114985	-0.08	0.933	-.2350131	.2157253
	_cons	72.00673	2.544415	28.30	0.000	67.01878	76.99467

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.5106366	.	.
sd(_cons)	9.02	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	10.10492	.	.

```

289 .
290 .
291 .
292 . 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 ///
> if sample4bobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs   = 1,006

Group variable: HNDID                Number of groups =     578
                                         Obs per group:
                                         min =        1
                                         avg =      1.7
                                         max =        2
                                         Average RVI =    0.0394
                                         Largest FMI =  0.3929
DF adjustment: Large sample          DF: min =    31.62
                                         avg = 859,250.89
                                         max = 1.65e+07
Model F test: Equal FMI             F( 25,49202.4) =    28.87
                                         Prob > F = 0.0000

```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.11645	.2356316	-4.74	0.000	-1.578294 -.654605
w1Agecent48		-.1415099	.0294942	-4.80	0.000	-.1993181 -.0837016
c.timew1w3#c.w1Agecent48		-.0163342	.0062845	-2.60	0.009	-.0286516 -.0040169
timew1w3		0	(omitted)			
Sex						
Men		0	(omitted)			
Sex#c.timew1w3						
Men		0	(omitted)			
timew1w3		0	(omitted)			
Race						
AfrAm		-1.156704	.5421987	-2.13	0.033	-2.219529 -.0938787
Race#c.timew1w3						
AfrAm		.03399	.1178958	0.29	0.773	-.1970951 .2650751
timew1w3		0	(omitted)			
PovStat						
Below		-.002576	.5608597	-0.00	0.996	-1.101911 1.096759
PovStat#c.timew1w3						
Below		-.1974844	.1165528	-1.69	0.090	-.4259254 .0309565
timew1w3		0	(omitted)			
w1edubr						
2		.5768482	1.09222	0.53	0.597	-1.565706 2.719403
3		3.182977	1.19888	2.65	0.008	.8316636 5.534291
w1edubr#c.timew1w3						

		2	- .0235122	.2323007	-0.10	0.919	-.4788807	.4318563
		3	-.2764405	.2551523	-1.08	0.279	-.7765602	.2236792
	timew1w3		0	(omitted)				
	w1WRATTtotalcent42		.1985119	.034367	5.78	0.000	.1311504	.2658734
c.timew1w3#c.w1WRATTtotalcent42			-.0026115	.0071854	-0.36	0.716	-.0166951	.011472
	timew1w3		0	(omitted)				
	1.w1smoke		.2950494	.6489684	0.45	0.651	-1.002749	1.592848
w1smoke#c.timew1w3			.0549754	.1308657	0.42	0.674	-.2017428	.3116936
	timew1w3		0	(omitted)				
	1.w1currdrugs		-.9359721	.6147156	-1.52	0.128	-2.14293	.2709856
w1currdrugs#c.timew1w3			.0208397	.129976	0.16	0.873	-.2339154	.2755949
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			-.0021138	.0280148	-0.08	0.940	-.0592047	.0549772
c.timew1w3#c.w1hei2010_total_scorecent43			.001238	.0062111	0.20	0.842	-.0110772	.0135532
	timew1w3		0	(omitted)				
w1BMIcon30			.0399561	.0441539	0.90	0.366	-.046601	.1265131
c.timew1w3#c.w1BMIcon30			.0036057	.0093955	0.38	0.701	-.0148101	.0220216
	timew1w3		0	(omitted)				
invmillsmms			-.0215406	.0336372	-0.64	0.522	-.0874683	.0443871
c.timew1w3#c.invmillsmms			-.010495	.0067572	-1.55	0.120	-.0237389	.002749
	timew1w3		0	(omitted)				
zw1w3HCYTRAJ			.2197115	.2116074	1.04	0.299	-.1950319	.6344549
c.timew1w3#c.zw1w3HCYTRAJ			-.034826	.0445473	-0.78	0.434	-.1221372	.0524852
	_cons		22.81018	1.10017	20.73	0.000	20.65273	24.96762

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.282027	.1834572	.0788111	1.009238
sd(_cons)	4.145677	.1965934	3.777725	4.549469
sd(Residual)	3.60788	.1946133	3.245916	4.010208

```

293 .
294 .
295 .
296 . 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
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4cobs==1 & Sex==2 || 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 = 953
Number of groups = 562
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0583
Largest FMI = 0.2687
DF: min = 65.69
      avg = 206,832.61
      max = 1773236.89
F( 25, 23743.2) = 17.48
Prob > F = 0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.3200966	.1205788	-2.65	0.008	-.5564286 -.0837647
w1Agecent48		-.0898458	.0137616	-6.53	0.000	-.1168182 -.0628733
c.timew1w3#c.w1Agecent48		-.0064396	.0032017	-2.01	0.044	-.012715 -.0001642
timew1w3		0	(omitted)			
Sex						
Men		0	(omitted)			
Sex#c.timew1w3						
Men		0	(omitted)			
timew1w3		0	(omitted)			
Race						
AfrAm		-.7594265	.2527329	-3.00	0.003	-1.254808 -.2640454
Race#c.timew1w3						
AfrAm		.0233958	.0598454	0.39	0.696	-.0939033 .1406948
timew1w3		0	(omitted)			
PovStat						
Below		.1709113	.2648482	0.65	0.519	-.3483437 .6901662
PovStat#c.timew1w3						
Below		-.0742375	.0591741	-1.25	0.210	-.1902185 .0417435
timew1w3		0	(omitted)			
w1edubr						
2		.0307767	.5184374	0.06	0.953	-.9860927 1.047646
3		.6988156	.573005	1.22	0.223	-.4251069 1.822738
w1edubr#c.timew1w3						

		2	- .1173638	.119432	-0.98	0.326	-.3515083	.1167806
		3	-.078608	.1312784	-0.60	0.549	-.3359192	.1787033
	timew1w3		0	(omitted)				
	w1WRATTtotalcent42		.0866789	.0162444	5.34	0.000	.0548398	.1185179
c.timew1w3#c.w1WRATTtotalcent42			-.0022382	.0036348	-0.62	0.538	-.0093623	.0048859
	timew1w3		0	(omitted)				
	1.w1smoke		.0595435	.3016783	0.20	0.844	-.540939	.660026
w1smoke#c.timew1w3			.0423668	.0715018	0.59	0.555	-.0990791	.1838128
	timew1w3		0	(omitted)				
	1.w1currdrugs		-.8540088	.2994399	-2.85	0.005	-1.44396	-.2640578
w1currdrugs#c.timew1w3			.0450932	.0683728	0.66	0.510	-.0891808	.1793672
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			-.0069042	.0124859	-0.55	0.582	-.0318352	.0180269
c.timew1w3#c.w1hei2010_total_scorecent43			.0034193	.0032594	1.05	0.297	-.0030544	.0098929
	timew1w3		0	(omitted)				
w1BMIcon30			.0211734	.0206272	1.03	0.305	-.0192612	.0616079
c.timew1w3#c.w1BMIcon30			.0039897	.0047873	0.83	0.405	-.0053966	.013376
	timew1w3		0	(omitted)				
invmillsmms			-.0092104	.0165965	-0.55	0.579	-.041739	.0233182
c.timew1w3#c.invmillsmms			-.0037457	.0034061	-1.10	0.271	-.0104216	.0029302
	timew1w3		0	(omitted)				
zw1w3HCYTRAJ			.1631089	.1000099	1.63	0.103	-.0329073	.3591251
c.timew1w3#c.zw1w3HCYTRAJ			-.0229842	.0225915	-1.02	0.309	-.0672628	.0212944
	_cons		7.083261	.5205348	13.61	0.000	6.062703	8.103819

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1044889	.1107674	.0130829	.8345167
sd(_cons)	1.721702	.0995936	1.53716	1.928399
sd(Residual)	1.817615	.0912364	1.647309	2.005527

```

297 .
298 .
299 .
300 . 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 ///
> if sample4dobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,129
Number of groups = 589
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI = 0.0374
    Largest FMI = 0.3545
    DF: min = 38.61
        avg = 634,354.56
        max = 1.28e+07
    F( 25, 51228.3) = 15.36
    Prob > F = 0.0000

```

	BVRTot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.2870668	.1656027	1.73	0.083	-.0375197	.6116534
w1Agecent48	.1354447	.0219468	6.17	0.000	.092428	.1784615
c.timew1w3#c.w1Agecent48	.0133246	.0044493	2.99	0.003	.004604	.0220452
timew1w3	0 (omitted)					
Sex						
Men	0 (omitted)					
Sex#c.timew1w3						
Men	0 (omitted)					
timew1w3	0 (omitted)					
Race						
AfrAm	.0680071	.3997085	0.17	0.865	-.7154117	.851426
Race#c.timew1w3						
AfrAm	.1051202	.0822934	1.28	0.201	-.0561783	.2664186
timew1w3	0 (omitted)					
PovStat						
Below	-.1085649	.4207313	-0.26	0.796	-.9332152	.7160853
PovStat#c.timew1w3						
Below	.0981402	.0836809	1.17	0.241	-.0658719	.2621523
timew1w3	0 (omitted)					
w1edubr						
2	-.6715163	.8186514	-0.82	0.412	-2.276437	.9334045
3	-2.000888	.8968044	-2.23	0.026	-3.758938	-.2428391
w1edubr#c.timew1w3						

	2	.005378	.1646368	0.03	0.974	-.3173139	.3280698
	3	.1512094	.1803628	0.84	0.402	-.2023047	.5047234
	timew1w3	0	(omitted)				
w1WRATtotalcent42		-.126173	.0259684	-4.86	0.000	-.1770706	-.0752755
c.timew1w3#c.w1WRATtotalcent42		-.0089424	.0052685	-1.70	0.090	-.0192683	.0013836
	timew1w3	0	(omitted)				
1.w1smoke		.6096012	.4476136	1.36	0.175	-.27296	1.492162
w1smoke#c.timew1w3							
1		-.1056397	.0906631	-1.17	0.244	-.2833714	.072092
	timew1w3	0	(omitted)				
1.w1currdrugs		-.3782052	.5232805	-0.72	0.472	-1.423675	.6672641
w1currdrugs#c.timew1w3							
1		.1657617	.1017642	1.63	0.104	-.0344627	.3659861
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0040208	.0195381	-0.21	0.838	-.0435532	.0355117
c.timew1w3#c.w1hei2010_total_scorecent43		-.0036463	.0040031	-0.91	0.363	-.011507	.0042144
	timew1w3	0	(omitted)				
w1BMIcon30		.0303653	.033002	0.92	0.358	-.0343187	.0950493
c.timew1w3#c.w1BMIcon30							
	timew1w3	0	(omitted)				
invmillsmms		.0093519	.0227108	0.41	0.680	-.0351607	.0538646
c.timew1w3#c.invmillsmms							
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0356289	.1570844	0.23	0.821	-.272251	.3435087
c.timew1w3#c.zw1w3HCYTRAJ							
	_cons	6.79293	.8181368	8.30	0.000	5.189304	8.396557

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.6969813	.0782049	.5593825 .8684271
sd(_cons)	4.09138	.1912327	3.733223 4.483898
corr(timew1w3,_cons)	-.4476008	.0497805	-.5396835 -.3449349
sd(Residual)	1.663457	.3136841	1.149456 2.407303

```

301 .
302 .
303 . mi estimate: mixed Attention 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 ///
> if sample4eobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,021
Number of groups = 580
Obs per group:
    min = 1
    avg = 1.8
    max = 2
    Average RVI = 0.0294
    Largest FMI = 0.2495
    DF: min = 75.67
        avg = 581,422.10
        max = 3937967.68
    F( 25, 81697.7) = 6.78
    Prob > F = 0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1085017	.0915214	1.19	0.236	.0709276	.2879311
w1Agecent48	-.0095459	.0098136	-0.97	0.331	-.0287802	.0096884
c.timew1w3#c.w1Agecent48	-.0044767	.0023017	-1.94	0.052	-.0089878	.0000345
timew1w3	0	(omitted)				
Sex						
Men	0	(omitted)				
Sex#c.timew1w3						
Men	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	-.4802465	.18365	-2.62	0.009	-.8402365	-.1202566
Race#c.timew1w3						
AfrAm	.0180324	.0436368	0.41	0.679	-.0675043	.103569
timew1w3	0	(omitted)				
PovStat						
Below	.4024185	.1886479	2.13	0.033	.0326739	.7721632
PovStat#c.timew1w3						
Below	-.1260312	.0436933	-2.88	0.004	-.2116689	-.0403936
timew1w3	0	(omitted)				
w1edubr						
2	.6621928	.3773399	1.75	0.079	-.0774563	1.401842
3	1.022598	.4193329	2.44	0.015	.1999712	1.845224
w1edubr#c.timew1w3						
2	-.143227	.0909065	-1.58	0.115	-.3214461	.0349921

	3	- .1478877	.0982987	-1.50	0.133	-.3406001	.0448248
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		.0684483	.0117927	5.80	0.000	.0453344	.0915623
c.timew1w3#c.w1WRATTtotalcent42		.0018236	.0027874	0.65	0.513	-.0036397	.007287
	timew1w3	0	(omitted)				
1.w1smoke		-.3274969	.2019122	-1.62	0.106	-.7244231	.0694292
	w1smoke#c.timew1w3	1					
		-.0230276	.0500451	-0.46	0.646	-.1215452	.0754899
	timew1w3	0	(omitted)				
1.w1currdrugs		.161064	.2121755	0.76	0.448	-.2555528	.5776809
	w1currdrugs#c.timew1w3	1					
		.0486207	.0503942	0.96	0.335	-.0501818	.1474233
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0090787	.0089523	-1.01	0.314	-.02691	.0087526
c.timew1w3#c.w1hei2010_total_scorecent43		-.0002079	.0022053	-0.09	0.925	-.004557	.0041412
	timew1w3	0	(omitted)				
w1BMIcon30		-.004778	.0153796	-0.31	0.756	-.0349238	.0253678
c.timew1w3#c.w1BMIcon30		-.0022228	.0035486	-0.63	0.531	-.0091783	.0047326
	timew1w3	0	(omitted)				
invmillsmms		-.0046679	.0113093	-0.41	0.680	-.0268338	.017498
c.timew1w3#c.invmillsmms		.002608	.0024527	1.06	0.288	-.0021992	.0074152
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0686801	.0717861	-0.96	0.339	-.2093783	.0720182
c.timew1w3#c.zw1w3HCYTRAJ		-.0199986	.0167669	-1.19	0.233	-.0528611	.012864
	_cons	6.090083	.3810479	15.98	0.000	5.342961	6.837205

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1126833	.1634402	.0065651	1.934084
sd(_cons)	1.260617	.1868611	.9427781	1.685609
corr(timew1w3,_cons)	.2041307	.9807055	-.9466698	.9763473
sd(Residual)	1.381272	.151942	1.113386	1.713613

```

304 .
305 . 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 ///
> if sample4fobs==1 & Sex==2 || HNDID: timew1w3, cov(un)
convergence not achieved
model did not converge on m=3
r(498);

end of do-file

r(498);

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

307 . 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 ///
> if sample4fobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression
Imputations      =      5
Number of obs    = 1,147

Group variable: HNDID
Number of groups = 593
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( 25,13549.2) = 5.57
Prob > F = 0.0000

```

	FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1049266	.1850183	0.57	0.571	.2579414	.4677946
w1Agecent48	-.0960878	.0254397	-3.78	0.000	-.1459556	-.0462199
c.timew1w3##c.w1Agecent48	-.0049969	.0047555	-1.05	0.293	-.0143177	.0043239
timew1w3	0 (omitted)					
Sex						
Men	0 (omitted)					
Sex#c.timew1w3						
Men	0 (omitted)					
timew1w3	0 (omitted)					
Race						
AfrAm	-.8247851	.4611949	-1.79	0.074	-1.728714	.0791435
Race#c.timew1w3						
AfrAm	-.0107891	.0895456	-0.12	0.904	-.186304	.1647257
timew1w3	0 (omitted)					
PovStat						

	Below	- .1333057	.4843823	-0.28	0.783	-1.082714	.8161022
PovStat#c.timew1w3							
Below		.0178749	.090005	0.20	0.843	-.1585358	.1942856
timew1w3			0 (omitted)				
w1edubr							
2		.4211369	.9436836	0.45	0.655	-1.428784	2.271058
3		1.637391	1.038839	1.58	0.115	-.3992147	3.673996
w1edubr#c.timew1w3							
2		-.0435042	.1853528	-0.23	0.815	-.407507	.3204987
3		-.1096158	.203518	-0.54	0.590	-.5091878	.2899562
timew1w3		0 (omitted)					
w1WRATtotalcent42		.1647239	.0295373	5.58	0.000	.1068299	.2226178
c.timew1w3#c.w1WRATtotalcent42		.0012688	.0055832	0.23	0.820	-.0096749	.0122126
timew1w3		0 (omitted)					
1.w1smoke		-.3096268	.5093774	-0.61	0.544	-1.31428	.6950266
w1smoke#c.timew1w3							
1		-.0457197	.097179	-0.47	0.638	-.2362113	.144772
timew1w3		0 (omitted)					
1.w1currdrugs		-.1903989	.590239	-0.32	0.748	-1.370995	.9901968
w1currdrugs#c.timew1w3							
1		.093634	.1056551	0.89	0.376	-.1138426	.3011105
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		.0227056	.02264	1.00	0.323	-.0232828	.0686939
c.timew1w3#c.w1hei2010_total_scorecent43		-.0003626	.0046083	-0.08	0.937	-.0094748	.0087495
timew1w3		0 (omitted)					
w1BMIcon30		.0381138	.0382728	1.00	0.319	-.0369178	.1131454
c.timew1w3#c.w1BMIcon30		-.0014852	.0072238	-0.21	0.837	-.0156452	.0126749
timew1w3		0 (omitted)					
invmillsmms		-.0363314	.0317479	-1.14	0.252	-.0985563	.0258935
c.timew1w3#c.invmillsmms		.0097746	.0060616	1.61	0.107	-.0021059	.0216551
timew1w3		0 (omitted)					
zw1w3HCYTRAJ		.0061345	.1813329	0.03	0.973	-.3492728	.3615418
c.timew1w3#c.zw1w3HCYTRAJ		-.0416749	.0337981	-1.23	0.218	-.1079183	.0245684
_cons		19.53393	.9563044	20.43	0.000	17.65896	21.4089

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.53e-06	.	.	.
sd(_cons)	4.022074	.1595033	3.721294	4.347167
sd(Residual)	3.13848	.0946605	2.958324	3.329607

308 .
309 . 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.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

	Imputations =	5
	Number of obs =	1,124
	Number of groups =	593
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	.
	Largest FMI =	.
	DF: min =	0.00
	avg =	.
	max =	.
	F(25,13489.0) =	9.63
	Prob > F =	0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0324029	.0708157	0.46	0.647	-.1064062	.171212
w1Agecent48	-.0208701	.0096233	-2.17	0.030	-.039732	-.0020081
c.timew1w3#c.w1Agecent48	-.0034483	.0018171	-1.90	0.058	-.0070099	.0001132
timew1w3	0 (omitted)					
Sex Men	0 (omitted)					
Sex#c.timew1w3 Men	0 (omitted)					
timew1w3	0 (omitted)					
Race AfrAm	-.2816373	.1774642	-1.59	0.113	-.6295326	.066258
Race#c.timew1w3 AfrAm	-.0281128	.0341988	-0.82	0.411	-.0951491	.0389236
timew1w3	0 (omitted)					
PovStat Below	-.1580683	.1865944	-0.85	0.397	-.5239183	.2077818
PovStat#c.timew1w3 Below	-.0421527	.0343125	-1.23	0.219	-.1094044	.0250989

	timew1w3	0 (omitted)					
w1edubr							
2	-.3133145	.3600517	-0.87	0.384	-1.019034	.3924052	
3	.0893494	.3962759	0.23	0.822	-.6874712	.8661701	
w1edubr#c.timew1w3							
2	-.0229893	.0690921	-0.33	0.739	-.1584119	.1124333	
3	-.0112886	.0763852	-0.15	0.883	-.1610295	.1384524	
timew1w3	0 (omitted)						
w1WRATtotalcent42	.1079089	.0113054	9.54	0.000	.0857504	.1300675	
c.timew1w3#c.w1WRATtotalcent42	.0015653	.0021307	0.73	0.463	-.002611	.0057415	
timew1w3	0 (omitted)						
1.w1smoke	.040072	.202992	0.20	0.844	-.3635572	.4437013	
w1smoke#c.timew1w3							
1	-.0115291	.0385638	-0.30	0.765	-.0872749	.0642168	
timew1w3	0 (omitted)						
1.w1currdrugs	.4963062	.2545145	1.95	0.063	-.0297587	1.022371	
w1currdrugs#c.timew1w3							
1	-.0025501	.040558	-0.06	0.950	-.0821433	.0770431	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	.001671	.0080663	0.21	0.836	-.0143903	.0177323	
c.timew1w3#c.w1hei2010_total_scorecent43	-.0001566	.0018143	-0.09	0.931	-.0037623	.0034491	
timew1w3	0 (omitted)						
w1BMIconcent30	-.004812	.0148655	-0.32	0.746	-.0339871	.0243632	
c.timew1w3#c.w1BMIconcent30	.0016534	.0027346	0.60	0.545	-.0037066	.0070133	
timew1w3	0 (omitted)						
invmillsmms	-.0111188	.0111874	-0.99	0.320	-.0330457	.0108082	
c.timew1w3#c.invmillsmms	.0010637	.002173	0.49	0.624	-.0031954	.0053228	
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	.0280744	.069115	0.41	0.685	-.1073909	.1635397	
c.timew1w3#c.zw1w3HCYTRAJ	-.013505	.0129149	-1.05	0.296	-.0388179	.0118078	
_cons	7.611197	.3668643	20.75	0.000	6.89195	8.330443	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0019341	.	.
sd(_cons)	1.542858	.	.
corr(timew1w3,_cons)	.999454	.	.
sd(Residual)	1.194137	.	.

310 .

```
311 . 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.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 & Sex==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations	=	5
Number of obs	=	1,116
Number of groups	=	594
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	.
Largest FMI	=	.
DF: min	=	0.00
avg	=	.
max	=	.
F(25, 26525.1)	=	12.17
Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0519229	.0727887	0.71	0.476	-.090746 .1945918
w1Agecent48	-.0240665	.0092136	-2.61	0.009	-.0421263 -.0060068
c.timew1w3#c.w1Agecent48	-.0022405	.0018766	-1.19	0.233	-.0059187 .0014377
timew1w3	0 (omitted)				
Sex					
Men	0 (omitted)				
Sex#c.timew1w3					
Men	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	-.5428675	.1682079	-3.23	0.001	-.8725526 -.2131825
Race#c.timew1w3					
AfrAm	-.0447118	.0353372	-1.27	0.206	-.113973 .0245495
timew1w3	0 (omitted)				
PovStat					
Below	-.0389451	.1766707	-0.22	0.826	-.3852216 .3073313
PovStat#c.timew1w3					
Below	-.0260792	.0356605	-0.73	0.465	-.0959726 .0438142
timew1w3	0 (omitted)				
w1edubr					
2	-.1206067	.3435153	-0.35	0.726	-.7938854 .552672
3	.3919125	.3777278	1.04	0.299	-.3484319 1.132257
w1edubr#c.timew1w3					
2	-.0348208	.0709772	-0.49	0.624	-.1739339 .1042922
3	-.027493	.0782815	-0.35	0.725	-.1809247 .1259388

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1116239	.0109572	10.19	0.000	.090146	.1331017
c.timew1w3#c.w1WRATtotalcent42		-.0012663	.0022097	-0.57	0.567	-.0055972	.0030646
	timew1w3	0	(omitted)				
	1.w1smoke	-.0230507	.1811703	-0.13	0.899	-.3786737	.3325724
w1smoke#c.timew1w3		-.0379024	.0419995	-0.90	0.368	-.1209513	.0451465
	timew1w3	0	(omitted)				
	1.w1currdrugs	.0363271	.2119419	0.17	0.864	-.3840437	.4566979
w1currdrugs#c.timew1w3		.0494368	.0420509	1.18	0.240	-.0330946	.1319683
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0024976	.0085381	-0.29	0.772	-.0198218	.0148267
c.timew1w3#c.w1hei2010_total_scorecent43		-.0010093	.001748	-0.58	0.564	-.0044455	.0024268
	timew1w3	0	(omitted)				
	w1BMICent30	-.0004596	.0139307	-0.03	0.974	-.02777	.0268508
c.timew1w3#c.w1BMICent30		-.0007941	.0028746	-0.28	0.782	-.0064306	.0048424
	timew1w3	0	(omitted)				
	invmillsmms	.0041793	.0108126	0.39	0.699	-.017013	.0253716
c.timew1w3#c.invmillsmms		-.0047658	.002209	-2.16	0.031	-.0090954	-.0004362
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0569063	.065854	-0.86	0.388	-.1859783	.0721657
c.timew1w3#c.zw1w3HCYTRAJ		-.0004289	.013362	-0.03	0.974	-.0266178	.0257601
	_cons	5.810665	.349053	16.65	0.000	5.126493	6.494837

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0012022	.	.
sd(_cons)	1.392923	.	.
corr(timew1w3,_cons)	.9728117	.	.
sd(Residual)	1.234492	.	.

312 .

```
313 . 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 ///
> if sample4iobs==1 & Sex==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	1,140
Group variable: HNDID	Number of groups	=	591
	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(25, 47613.4)	=	3.11
	Prob > F	=	0.0000

	clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0305637	.0576737	-0.53	0.596	-.1436492 .0825219
	w1Agecent48	-.0085658	.0057045	-1.50	0.133	-.0197465 .0026148
	c.timew1w3##c.w1Agecent48	-.0018923	.001479	-1.28	0.201	-.0047911 .0010064
	timew1w3	0	(omitted)			
	Sex					
	Men	0	(omitted)			
	Sex##c.timew1w3					
	Men	0	(omitted)			
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.2562009	.104115	-2.46	0.014	-.4602649 -.0521369
	Race##c.timew1w3					
	AfrAm	.0243547	.0276182	0.88	0.378	-.0297764 .0784859
	timew1w3	0	(omitted)			
	PovStat					
	Below	.2802604	.1092876	2.56	0.010	.0660605 .4944604
	PovStat##c.timew1w3					
	Below	.0050136	.0279533	0.18	0.858	-.0497738 .0598011
	timew1w3	0	(omitted)			
	w1edubr					
	2	-.0639487	.2169137	-0.29	0.768	-.4891827 .3612852
	3	.0071773	.2413599	0.03	0.976	-.4662838 .4806384
	w1edubr##c.timew1w3					
	2	.0325193	.056308	0.58	0.564	-.0778526 .1428912
	3	.065374	.0621068	1.05	0.293	-.0563892 .1871372

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.0254015	.0068206	3.72	0.000	.0120314	.0387716
c.timew1w3#c.w1WRATtotalcent42		-.0021984	.0017572	-1.25	0.211	-.005643	.0012462
	timew1w3	0	(omitted)				
	1.w1smoke	.0465681	.1144806	0.41	0.684	-.1779218	.2710581
w1smoke#c.timew1w3		-.0427743	.0321084	-1.33	0.184	-.1060372	.0204886
	timew1w3	0	(omitted)				
	1.w1currdrugs	.1501489	.1271747	1.18	0.238	-.0998702	.400168
w1currdrugs#c.timew1w3		-.0454348	.0339698	-1.34	0.182	-.1123646	.021495
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0053648	.0051615	1.04	0.301	-.004876	.0156055
c.timew1w3#c.w1hei2010_total_scorecent43		-.0017579	.0014136	-1.24	0.216	-.0045515	.0010358
	timew1w3	0	(omitted)				
	w1BMICent30	-.0053501	.0085984	-0.62	0.534	-.0222044	.0115041
c.timew1w3#c.w1BMICent30		.0025071	.0022663	1.11	0.269	-.0019362	.0069504
	timew1w3	0	(omitted)				
	invmillsmms	.0033902	.0070203	0.48	0.629	-.0103694	.0171499
c.timew1w3#c.invmillsmms		-.0016933	.0016264	-1.04	0.298	-.004881	.0014944
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0383218	.0409735	-0.94	0.350	-.1186285	.0419849
c.timew1w3#c.zw1w3HCYTRAJ		-.0142583	.0104322	-1.37	0.172	-.034705	.0061885
	_cons	8.891101	.2211057	40.21	0.000	8.457474	9.324728

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0040728	.	.
sd(_cons)	.603197	.	.
corr(timew1w3,_cons)	-.999997	.	.
sd(Residual)	.9923533	.	.

314 .

```
315 . 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.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4jobs==1 & Sex==2 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	1,097
Group variable: HNDID	Number of groups	=	579
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	0.0490
	Largest FMI	=	0.3470
DF adjustment: Large sample	DF: min	=	40.24
	avg	=	3854392.89
	max	=	4.26e+07
Model F test: Equal FMI	F(25, 32118.7)	=	8.25
	Prob > F	=	0.0000

LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0077151	.0152207	0.51	0.612	-.0221229 .0375531
w1Agecent48	.0114796	.001837	6.25	0.000	.007879 .0150802
c.timew1w3#c.w1Agecent48	.0009846	.0003911	2.52	0.012	.000218 .0017513
timew1w3	0 (omitted)				
Sex					
Men	0 (omitted)				
Sex#c.timew1w3					
Men	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	.1926095	.0332423	5.79	0.000	.1274556 .2577634
Race#c.timew1w3					
AfrAm	-.009833	.0072297	-1.36	0.174	-.0240029 .004337
timew1w3	0 (omitted)				
PovStat					
Below	.0409119	.0351405	1.16	0.244	-.0279624 .1097862
PovStat#c.timew1w3					
Below	.0024546	.0073631	0.33	0.739	-.0119769 .016886
timew1w3	0 (omitted)				
w1edubr					
2	-.0587985	.0705541	-0.83	0.405	-.1971418 .0795448
3	-.1072198	.077404	-1.39	0.166	-.2590666 .0446271
w1edubr#c.timew1w3					
2	-.000633	.0150267	-0.04	0.966	-.0300951 .0288292
3	-.0006037	.0164874	-0.04	0.971	-.032939 .0317317

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	- .0078891	.0022029	-3.58	0.000	-.0122067	-.0035714
c.timew1w3#c.w1WRATtotalcent42		- .0003041	.0004676	-0.65	0.515	-.0012206	.0006123
	timew1w3	0	(omitted)				
	1.w1smoke	- .0298656	.0396014	-0.75	0.453	-.1086083	.0488771
	w1smoke#c.timew1w3						
	1	.003093	.0083511	0.37	0.711	-.0133271	.019513
	timew1w3	0	(omitted)				
	1.w1currdrugs	.0524944	.0404419	1.30	0.195	-.0271479	.1321368
	w1currdrugs#c.timew1w3						
	1	-.0015806	.0086906	-0.18	0.856	-.018635	.0154738
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	- .000524	.0017071	-0.31	0.760	-.0039735	.0029256
c.timew1w3#c.w1hei2010_total_scorecent43		.000091	.0003887	0.23	0.815	-.0006796	.0008616
	timew1w3	0	(omitted)				
	w1BMICent30	.0007501	.0027428	0.27	0.784	-.0046258	.006126
c.timew1w3#c.w1BMICent30		-.0002096	.0005872	-0.36	0.721	-.0013605	.0009413
	timew1w3	0	(omitted)				
	invmillsmms	.0081608	.0021262	3.84	0.000	.0039937	.012328
c.timew1w3#c.invmillsmms		-.0007032	.0004312	-1.63	0.103	-.0015483	.000142
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.0256633	.0131915	1.95	0.052	-.0001915	.0515181
c.timew1w3#c.zw1w3HCYTRAJ		.0023668	.0027571	0.86	0.391	-.003037	.0077705
	_cons	3.462496	.070692	48.98	0.000	3.323921	3.601071

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0169599	.0124443	.0040259	.0714478
sd(_cons)	.2690145	.0126435	.2453408	.2949727
sd(Residual)	.2451306	.0120551	.222606	.2699343

316 .

```
317 . 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 ///
> if sample4kobs==1 & Sex==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,061

Group variable: HNDID

Number of groups = 571
Obs per group:

min = 1
avg = 1.9
max = 2

Average RVI = 0.0479

Largest FMI = 0.3506

DF adjustment: Large sample

DF: min = 39.44
avg = 748,388.33
max = 8367348.17

Model F test: Equal FMI

F(25, 31886.0) = 15.46
Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		- .0063282	.0217743	-0.29	0.771	-.049011 .0363546
w1Agecent48		.0196161	.0027071	7.25	0.000	.0143103 .024922
c.timew1w3#c.w1Agecent48		.0002772	.0005389	0.51	0.607	-.0007791 .0013335
timew1w3			0 (omitted)			
Sex						
Men			0 (omitted)			
Sex#c.timew1w3						
Men			0 (omitted)			
timew1w3			0 (omitted)			
Race						
AfrAm		.286722	.0492362	5.82	0.000	.1902206 .3832234
Race#c.timew1w3						
AfrAm		.0020955	.009987	0.21	0.834	-.0174788 .0216698
timew1w3			0 (omitted)			
PovStat						
Below		.1536774	.0520659	2.95	0.003	.0516294 .2557255
PovStat#c.timew1w3						
Below		-.0047357	.010356	-0.46	0.647	-.0250332 .0155619
timew1w3			0 (omitted)			
w1edubr						
2		-.2807328	.1046933	-2.68	0.007	-.4860402 -.0754255
3		-.4259812	.1130267	-3.77	0.000	-.6475831 -.2043793
w1edubr#c.timew1w3						
2		-.0014551	.0214405	-0.07	0.946	-.0434846 .0405743
3		.0082034	.0231796	0.35	0.723	-.0372364 .0536432

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	- .0252229	.0032728	-7.71	0.000	-.0316376	-.0188083
c.timew1w3#c.w1WRATtotalcent42		.0002908	.0006688	0.43	0.664	-.0010201	.0016017
	timew1w3	0	(omitted)				
	1.w1smoke	.0092744	.0541537	0.17	0.864	-.0972168	.1157656
w1smoke#c.timew1w3		.0065911	.0111539	0.59	0.555	-.0152754	.0284577
	timew1w3	0	(omitted)				
	1.w1currdrugs	-.0427749	.0604175	-0.71	0.480	-.1621102	.0765604
w1currdrugs#c.timew1w3		.0182368	.0124129	1.47	0.143	-.0062053	.0426789
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.001442	.002457	0.59	0.561	-.0035258	.0064099
c.timew1w3#c.w1hei2010_total_scorecent43		-.0002138	.000568	-0.38	0.708	-.001355	.0009273
	timew1w3	0	(omitted)				
	w1BMICent30	-.0001752	.0040711	-0.04	0.966	-.0081554	.007805
c.timew1w3#c.w1BMICent30		.0002951	.000805	0.37	0.714	-.0012827	.001873
	timew1w3	0	(omitted)				
	invmillsmms	.0063837	.0031131	2.05	0.040	.0002822	.0124852
c.timew1w3#c.invmillsmms		-.0013423	.0005942	-2.26	0.024	-.0025069	-.0001778
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.0459267	.0196211	2.34	0.019	.00747	.0843835
c.timew1w3#c.zw1w3HCYTRAJ		.007484	.0038549	1.94	0.052	-.0000715	.0150396
	_cons	4.726276	.1047757	45.11	0.000	4.520879	4.931672

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0643927	.0141738	.0418287	.0991285	
sd(_cons)	.4720025	.0271526	.4216747	.528337	
corr(timew1w3,_cons)	-.4002916	.0734886	-.53385	-.2472465	
sd(Residual)	.2565969	.037202	.1931266	.3409265	

```

318 .
319 .
320 . save, replace
      file finaldata_imputed_FINAL.dta saved

321 .
322 .
323 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
324 .
325 . 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##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCVTRAJ ///
> if sample4aobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,087

Group variable: HNDID

Number of groups	=	586
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(41,76400.3)	=	12.21
Prob > F	=	0.0000

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1894431	.099725	1.90	0.058	-.0061029	.3849891
w1Agecent48	-.0311482	.0101062	-3.08	0.002	-.0509645	-.0113318
c.timew1w3#c.w1Agecent48	-.0015544	.0022326	-0.70	0.486	-.0059307	.002822
timew1w3	0	(omitted)				
Sex						
Men	0	(omitted)				
Sex#c.timew1w3						
Men	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	-.1055613	.1733711	-0.61	0.543	-.4453856	.234263
Race#c.timew1w3						
AfrAm	-.0470282	.0394947	-1.19	0.234	-.1244364	.03038
timew1w3	0	(omitted)				
PovStat						
Below	-.0089551	.181528	-0.05	0.961	-.3647472	.3468369
PovStat#c.timew1w3						
Below	-.0102434	.0406805	-0.25	0.801	-.0899759	.0694892

	timew1w3	0 (omitted)				
w1edubr						
2	.4015997	.3491322	1.15	0.250	-.2827647	1.085964
3	.7720053	.3849812	2.01	0.045	.0172802	1.52673
w1edubr#c.timew1w3						
2	-.0596201	.0825305	-0.72	0.470	-.2214131	.1021728
3	-.1185542	.089554	-1.32	0.186	-.2941209	.0570125
timew1w3	0 (omitted)					
w1WRATtotalcent42	.1525688	.0113766	13.41	0.000	.1302622	.1748753
c.timew1w3#c.w1WRATtotalcent42	-.0074706	.0027683	-2.70	0.007	-.0128977	-.0020435
timew1w3	0 (omitted)					
1.w1smoke	.1515955	.1974133	0.77	0.443	-.2377245	.5409155
w1smoke#c.timew1w3						
1	-.0950556	.0446308	-2.13	0.034	-.1827126	-.0073986
timew1w3	0 (omitted)					
1.w1currdrugs	.0165772	.2129144	0.08	0.938	-.4035606	.436715
w1currdrugs#c.timew1w3						
1	.0034375	.047963	0.07	0.943	-.0909123	.0977873
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	-.009656	.008164	-1.18	0.239	-.0257929	.0064809
c.timew1w3#c.w1hei2010_total_scorecent43	.0022308	.0018515	1.20	0.228	-.001399	.0058606
timew1w3	0 (omitted)					
w1BMIcon30	.0107205	.0148708	0.72	0.471	-.0184277	.0398687
c.timew1w3#c.w1BMIcon30	-.0046338	.0033762	-1.37	0.170	-.0112513	.0019837
timew1w3	0 (omitted)					
w1SRH						
2	.1570443	.2305535	0.68	0.496	-.2948353	.6089238
3	.1090068	.2432818	0.45	0.654	-.3678376	.5858511
w1SRH#c.timew1w3						
2	-.0089414	.0532016	-0.17	0.867	-.1132147	.0953319
3	-.0371489	.0560217	-0.66	0.507	-.1469514	.0726537
timew1w3	0 (omitted)					
w1CEScent15	-.0316786	.0093274	-3.40	0.001	-.0499615	-.0133957
c.timew1w3#c.w1CEScent15	.0036763	.0021184	1.74	0.083	-.0004757	.0078282
timew1w3	0 (omitted)					
w1dxHTN						
Yes	.0702594	.2006403	0.35	0.726	-.3242681	.4647868
w1dxHTN#c.timew1w3						
Yes	-.0001644	.0448242	-0.00	0.997	-.0880577	.0877288
timew1w3	0 (omitted)					
w1dxDiabetes						

	preDiabetes	.0021024	.2025692	0.01	0.992	-.3949437	.3991485
	Diabetes	-.0854016	.2766003	-0.31	0.758	-.6290484	.4582452
w1dxDiabetes#c.timew1w3							
	preDiabetes	.0355096	.0472579	0.75	0.452	-.0571147	.128134
	Diabetes	-.0378612	.0635157	-0.60	0.551	-.1624127	.0866903
	timew1w3	0	(omitted)				
w1CVhighChol							
	Yes	.1159387	.2011955	0.58	0.564	-.2784195	.5102969
w1CVhighChol#c.timew1w3							
	Yes	.0346166	.0496068	0.70	0.486	-.0628535	.1320867
	timew1w3	0	(omitted)				
1.w1cvdbr		.2800061	.2672427	1.05	0.296	-.2475043	.8075165
w1cvdbr#c.timew1w3							
	1	-.0943564	.060257	-1.57	0.118	-.2128276	.0241148
	timew1w3	0	(omitted)				
invmillsmms		-.0091673	.0091661	-1.00	0.317	-.0271325	.008798
c.timew1w3#c.invmillsmms		-.0016511	.0019307	-0.86	0.392	-.0054359	.0021338
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0190684	.0675439	0.28	0.778	-.1133162	.151453
c.timew1w3#c.zw1w3HCYTRAJ		-.0000505	.0152056	-0.00	0.997	-.0298532	.0297523
	_cons	26.7251	.4208401	63.50	0.000	25.90005	27.55014

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.1421496	.	.
sd(_cons)	1.378119	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.261467	.	.

326 .

327 .

328 . 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.w1BMIcon > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms /// > c.timew1w3##c.zw1w3HCYTRAJ /// > if sample4aobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,087

Group variable: HNDID

	Number of groups =	586
	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(41,78073.1) = 10.89
		Prob > F = 0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	1.179821	.7603755	1.55	0.121	-.3109695 2.670611
w1Agecent48	-.2625153	.0716273	-3.67	0.000	-.4029316 -.1220991
c.timew1w3#c.w1Agecent48	-.0112416	.016849	-0.67	0.505	-.0442661 .0217829
timew1w3	0 (omitted)				
Sex					
Men	0 (omitted)				
Sex#c.timew1w3					
Men	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	-2.324447	1.231305	-1.89	0.059	-4.737805 .0889106
Race#c.timew1w3					
AfrAm	-.1373849	.3011636	-0.46	0.648	-.7276578 .452888
timew1w3	0 (omitted)				
PovStat					
Below	-.5196932	1.293997	-0.40	0.688	-3.055904 2.016518
PovStat#c.timew1w3					
Below	-.1892409	.3093032	-0.61	0.541	-.795467 .4169851
timew1w3	0 (omitted)				
w1edubr					
2	3.608876	2.472672	1.46	0.144	-1.237519 8.455271
3	7.276243	2.720413	2.67	0.007	1.944183 12.6083
w1edubr#c.timew1w3					
2	-.5180643	.6281335	-0.82	0.410	-1.749285 .713156
3	-.9167661	.6789924	-1.35	0.177	-2.247667 .4141352
timew1w3	0 (omitted)				
w1WRATtotalcent42	.9240125	.0810195	11.40	0.000	.7651635 1.082861
c.timew1w3#c.w1WRATtotalcent42	-.0099698	.0213772	-0.47	0.641	-.0518824 .0319428
timew1w3	0 (omitted)				
1.w1smoke	.7523641	1.437042	0.52	0.602	-2.091255 3.595983

w1smoke#c.timew1w3							
1	-.642051	.3465191	-1.85	0.065	-1.324037	.0399348	
timew1w3	0	(omitted)					
1.w1currdrugs	1.063788	1.523466	0.70	0.486	-1.944183	4.071759	
w1currdrugs#c.timew1w3							
1	-.0583343	.3708877	-0.16	0.875	-.7895294	.6728609	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.064326	.0593152	-1.08	0.281	-.1818831	.053231	
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3	0	(omitted)					
w1BMIcon30	.0410345	.1060928	0.39	0.699	-.1669187	.2489878	
c.timew1w3#c.w1BMIcon30							
timew1w3	0	(omitted)					
w1SRH							
2	.8198335	1.644608	0.50	0.618	-2.403576	4.043243	
3	1.203942	1.738293	0.69	0.489	-2.20332	4.611204	
w1SRH#c.timew1w3							
2	-.1197049	.4054485	-0.30	0.768	-.91437	.6749603	
3	-.3677113	.4272362	-0.86	0.389	-1.205112	.4696897	
timew1w3	0	(omitted)					
w1CEScent15							
timew1w3	0	(omitted)					
w1CEScent15	-.2309614	.0666397	-3.47	0.001	-.3615894	-.1003333	
c.timew1w3#c.w1CEScent15							
timew1w3	0	(omitted)					
w1dxHTN							
Yes	.2312809	1.380365	0.17	0.867	-2.475099	2.937661	
w1dxHTN#c.timew1w3							
Yes	.1370616	.3430964	0.40	0.690	-.5358312	.8099545	
timew1w3	0	(omitted)					
w1dxDiabetes							
preDiabetes	1.230822	1.451247	0.85	0.396	-1.613896	4.07554	
Diabetes	.244113	1.968907	0.12	0.901	-3.62439	4.112616	
w1dxDiabetes#c.timew1w3							
preDiabetes	.092444	.3606244	0.26	0.798	-.6143695	.7992576	
Diabetes	-.3061767	.4836075	-0.63	0.527	-1.2544	.6420465	
timew1w3	0	(omitted)					
w1CVhighChol							
Yes	1.028863	1.473101	0.70	0.485	-1.86181	3.919535	
w1CVhighChol#c.timew1w3							
Yes	.2519167	.3897371	0.65	0.519	-.5168026	1.020636	
timew1w3	0	(omitted)					
1.w1cvdbr	1.882218	1.821566	1.03	0.302	-1.693385	5.457821	

w1cvdbr#c.timew1w3							
1	-.7349462	.4476344	-1.64	0.101	-1.613115	.1432223	
timew1w3	0	(omitted)					
invmillsmms	-.0538193	.065447	-0.82	0.411	-.1820941	.0744555	
c.timew1w3#c.invmillsmms	-.0141462	.0145535	-0.97	0.331	-.0426799	.0143874	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	.3371183	.4809313	0.70	0.483	-.6054915	1.279728	
c.timew1w3#c.zw1w3HCYTRAJ	-.0288482	.1158232	-0.25	0.803	-.2558588	.1981624	
_cons	69.26685	2.994917	23.13	0.000	63.39582	75.13789	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.4643843	.	.
sd(_cons)	8.781223	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	10.03037	.	.

329 .
 330 .
 331 .
 332 . 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
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4bobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,006

Group variable: HNDID

Number of groups	=	578
Obs per group:		
min	=	1
avg	=	1.7
max	=	2

Average RVI = 0.0502
 Largest FMI = 0.4451

DF adjustment: Large sample

DF:	min	=	24.75
	avg	=	511,509.69
	max	=	1.87e+07

Model F test: Equal FMI

F(41, 58354.6)	=	18.58
Prob > F	=	0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-1.22645	.2809277	-4.37	0.000	-1.7771 -.6757994
w1Agecent48		-.1401276	.031479	-4.45	0.000	-.2018314 -.0784237
c.timew1w3#c.w1Agecent48		-.0156357	.0067788	-2.31	0.021	-.0289218 -.0023495
	timew1w3	0	(omitted)			
	Sex					
Men		0	(omitted)			
	Sex#c.timew1w3					
Men		0	(omitted)			
	timew1w3	0	(omitted)			
	Race					
AfrAm		-1.51833	.5533319	-2.74	0.006	-2.603296 -.4333644
Race#c.timew1w3						
AfrAm		.0677081	.1206599	0.56	0.575	-.1688654 .3042816
	timew1w3	0	(omitted)			
	PovStat					
Below		.1880596	.5702439	0.33	0.742	-.929673 1.305792
PovStat#c.timew1w3						
Below		-.1332517	.1196774	-1.11	0.266	-.3678174 .1013139
	timew1w3	0	(omitted)			
	w1edubr					
2		.4638507	1.080962	0.43	0.668	-1.656813 2.584514
3		3.083138	1.188238	2.59	0.010	.7525134 5.413762
w1edubr#c.timew1w3						
2		-.0021468	.2325273	-0.01	0.993	-.4580473 .4537536
3		-.2718877	.2561186	-1.06	0.288	-.7740027 .2302273
	timew1w3	0	(omitted)			
w1WRATtotalcent42		.1812534	.0343346	5.28	0.000	.1139579 .248549
c.timew1w3#c.w1WRATtotalcent42		-.0014782	.0072523	-0.20	0.838	-.015693 .0127367
	timew1w3	0	(omitted)			
1.w1smoke		.4404566	.654936	0.67	0.504	-.8715759 1.752489
w1smoke#c.timew1w3						
1		.0165901	.1337449	0.12	0.901	-.2460216 .2792018
	timew1w3	0	(omitted)			
1.w1currdrugs		-.6940261	.6129551	-1.13	0.258	-1.897273 .5092212
w1currdrugs#c.timew1w3						
1		.0187483	.1304552	0.14	0.886	-.2369419 .2744385
	timew1w3	0	(omitted)			
w1hei2010_total_scorecent43		-.0094287	.0290369	-0.32	0.748	-.0692615 .050404
c.timew1w3#c.w1hei2010_total_scorecent43		.0012232	.0063957	0.19	0.849	-.0115198 .0139663

	timew1w3	0	(omitted)				
w1BMIcon30		.0406995	.0463081	0.88	0.380	-.0500879	.131487
c.timew1w3#c.w1BMIcon30		.0017727	.0100582	0.18	0.860	-.0179433	.0214887
	timew1w3	0	(omitted)				
w1SRH							
2		.9503109	.7064673	1.35	0.179	-.4343473	2.334969
3		.9118005	.7430885	1.23	0.220	-.5446709	2.368272
w1SRH#c.timew1w3							
2		.1607151	.1554818	1.03	0.301	-.1440275	.4654577
3		-.0040133	.1632788	-0.02	0.980	-.3240418	.3160153
	timew1w3	0	(omitted)				
w1CEScent15		-.0749418	.0283378	-2.64	0.008	-.1304871	-.0193964
c.timew1w3#c.w1CEScent15		-.0003293	.0061418	-0.05	0.957	-.0123672	.0117086
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.3740705	.5886233	-0.64	0.525	-1.527825	.7796841
w1dxHTN#c.timew1w3							
Yes		-.0143384	.1311603	-0.11	0.913	-.2714177	.2427409
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.0741841	.6243965	-0.12	0.905	-1.298124	1.149756
Diabetes		1.456128	.8467648	1.72	0.086	-.207448	3.119703
w1dxDiabetes#c.timew1w3							
preDiabetes		.2039286	.138367	1.47	0.141	-.0672795	.4751366
Diabetes		-.2122574	.1852051	-1.15	0.252	-.575259	.1507443
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0399745	.6641224	-0.06	0.952	-1.351177	1.271228
w1CVhighChol#c.timew1w3							
Yes		.0990944	.1542684	0.64	0.521	-.2048452	.4030341
	timew1w3	0	(omitted)				
1.w1cvdbr		.5996323	.8048971	0.74	0.457	-.9862387	2.185503
w1cvdbr#c.timew1w3							
1		-.2656319	.1971136	-1.35	0.181	-.6574418	.1261779
	timew1w3	0	(omitted)				
invmillsmms		-.0238621	.0332878	-0.72	0.473	-.089106	.0413819
c.timew1w3#c.invmillsmms		-.0102099	.0067149	-1.52	0.128	-.0233712	.0029513
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.261167	.2114494	1.24	0.217	-.1532687	.6756028
c.timew1w3#c.zw1w3HCYTRAJ		-.0286466	.0449179	-0.64	0.524	-.1166841	.0593909

_cons	21.89989	1.305352	16.78	0.000	19.33914	24.46064
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.292177	.1725339	.0918327	.9295967
sd(_cons)	4.069127	.1940448	3.706037	4.467789
sd(Residual)	3.552161	.1922219	3.194703	3.949616

333 .
 334 .
 335 .
 336 . 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
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4cobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	953

Group variable: HNDID

Number of groups	=	562
Obs per group:		
min	=	1
avg	=	1.7
max	=	2
Average RVI	=	0.0670
Largest FMI	=	0.3226

DF adjustment: Large sample

DF:	min	=	46.28
	avg	=	207,194.06
	max	=	4457966.85

Model F test: Equal FMI

F(41, 33886.8)	=	11.24
Prob > F	=	0.0000

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	- .4675805	.1440164	-3.25	0.001	-.7498525	-.1853085
w1Agecent48	- .0857467	.0147029	-5.83	0.000	-.1145651	-.0569284
c.timew1w3#c.w1Agecent48	- .0080485	.0034617	-2.32	0.020	-.0148335	-.0012635
timew1w3	0	(omitted)				
Sex						
Men	0	(omitted)				
Sex#c.timew1w3						
Men	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	- .8701099	.258425	-3.37	0.001	-1.376715	-.363505
Race#c.timew1w3						
AfrAm	.0215884	.0610961	0.35	0.724	-.098182	.1413588
timew1w3	0	(omitted)				

PovStat Below	.2828216	.2692952	1.05	0.294	-.245056	.8106992
PovStat#c.timew1w3 Below	-.0704143	.0608822	-1.16	0.247	-.1897419	.0489133
timew1w3	0 (omitted)					
w1edubr 2	.0142514	.5182539	0.03	0.978	-1.002659	1.031162
3	.6391828	.5714443	1.12	0.264	-.4818689	1.760235
w1edubr#c.timew1w3 2	-.1223305	.1190138	-1.03	0.304	-.355651	.11099
3	-.0692727	.1311475	-0.53	0.597	-.3263267	.1877813
timew1w3 w1WRATtotalcent42	0 (omitted)					
c.timew1w3#c.w1WRATtotalcent42	.0800931	.0163583	4.90	0.000	.048031	.1121552
timew1w3 1.w1smoke	0 (omitted)					
w1smoke#c.timew1w3 1	.0218045	.2980315	0.07	0.942	-.56874	.6123491
timew1w3 1.w1currdrugs	0 (omitted)					
w1currdrugs#c.timew1w3 1	-.8158979	.2974953	-2.74	0.006	-1.401172	-.2306243
timew1w3 w1hei2010_total_scorecent43	0 (omitted)					
c.timew1w3#c.w1hei2010_total_scorecent43	-.0104962	.0129227	-0.81	0.421	-.0365039	.0155116
timew1w3 w1BMIcon30	0 (omitted)					
c.timew1w3#c.w1BMIcon30	.003739	.0033192	1.13	0.264	-.002872	.0103499
timew1w3 w1SRH 2	0 (omitted)					
w1SRH#c.timew1w3 2	.0252672	.0215907	1.17	0.242	-.0170543	.0675887
3	-.0300399	.3506614	-0.09	0.932	-.717342	.6572622
timew1w3 w1CEScent15	0 (omitted)					
c.timew1w3#c.w1CEScent15	.1067569	.0801427	1.33	0.183	-.0503314	.2638452
3	.0965921	.0840713	1.15	0.251	-.0681881	.2613723
timew1w3 w1dxHTN Yes	0 (omitted)					
w1dxHTN Yes	-.2038995	.2777639	-0.73	0.463	-.7484186	.3406197

w1dxHTN#c.timew1w3 Yes		.0904967	.067135	1.35	0.178	-.0411124	.2221057
	timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes		-.0774343 .0748282	.2964456 .4086765	-0.26 0.18	0.794 0.855	-.6588514 -.7308744	.5039827 .8805309
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0816298 .0208498	.0698063 .0938824	1.17 0.22	0.242 0.824	-.0551956 -.1631724	.2184552 .2048721
	timew1w3	0	(omitted)				
w1CVhighChol Yes		-.1000771	.3336653	-0.30	0.765	-.7660478	.5658935
w1CVhighChol#c.timew1w3 Yes		-.0287813	.0746584	-0.39	0.700	-.1752193	.1176567
	timew1w3 1.w1cvdbr	0 -.0625748	(omitted) .3824098	-0.16	0.870	-.8146206	.689471
w1cvdbr#c.timew1w3 1		.0486936	.1000134	0.49	0.627	-.1496801	.2470673
	timew1w3 invmillsmms	0 -.008717	(omitted) .0164655	-0.53	0.597	-.0409888	.0235548
c.timew1w3#c.invmillsmms		-.0042273	.0033892	-1.25	0.212	-.0108699	.0024153
	timew1w3 zw1w3HCYTRAJ	0 .2009243	(omitted) .1005355	2.00	0.046	.0038778	.3979708
c.timew1w3#c.zw1w3HCYTRAJ		-.0285679	.0229184	-1.25	0.213	-.0734873	.0163514
	_cons	7.170681	.6234667	11.50	0.000	5.947463	8.393899

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.1089738	.1041898	.0167288	.7098713	
sd(_cons)	1.697658	.0991045	1.514116	1.90345	
sd(Residual)	1.798648	.0902697	1.630145	1.984567	

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337 .
338 .
339 .
340 . 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 ///
> if sample4dobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations =	5
	Number of obs =	1,129
Group variable: HNDID	Number of groups =	589
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0520
	Largest FMI =	0.3625
DF adjustment: Large sample	DF: min =	36.96
	avg =	103,285.97
	max =	2518260.74
Model F test: Equal FMI	F(41, 53611.1) =	11.16
	Prob > F =	0.0000

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.3949672	.1979197	2.00	0.046	.0070354	.782899
w1Agecent48	.1328242	.0229294	5.79	0.000	.0878723	.1777762
c.timew1w3#c.w1Agecent48	.0138681	.0047335	2.93	0.003	.0045904	.0231458
timew1w3	0	(omitted)				
Sex						
Men	0	(omitted)				
Sex#c.timew1w3						
Men	0	(omitted)				
timew1w3	0	(omitted)				
Race						
AfrAm	.2791864	.3964902	0.70	0.481	-.4980262	1.056399
Race#c.timew1w3						
AfrAm	.1302713	.0834813	1.56	0.119	-.0333937	.2939362
timew1w3	0	(omitted)				
PovStat						
Below	-.6610025	.4156675	-1.59	0.112	-1.475698	.1536933
PovStat#c.timew1w3						
Below	.1282576	.0852168	1.51	0.132	-.0387643	.2952795
timew1w3	0	(omitted)				
w1edubr						
2	-.803573	.7969479	-1.01	0.313	-2.366238	.7590918
3	-1.938347	.8652631	-2.24	0.025	-3.634358	-.2423362

w1edubr#c.timew1w3						
2	.0150581	.1642203	0.09	0.927	-.3068569	.3369731
3	.1266125	.1792023	0.71	0.480	-.2246308	.4778558
timew1w3	0 (omitted)					
w1WRATtotalcent42	-.1074746	.0255199	-4.21	0.000	-.1574955	-.0574537
c.timew1w3#c.w1WRATtotalcent42	-.0091018	.0052876	-1.72	0.085	-.0194654	.0012619
timew1w3	0 (omitted)					
1.w1smoke	.7452674	.4435063	1.68	0.095	-.1303562	1.620891
w1smoke#c.timew1w3						
1	-.127123	.0908936	-1.40	0.162	-.3053211	.0510752
timew1w3	0 (omitted)					
1.w1currdrugs	-.5915615	.5059369	-1.17	0.246	-1.599506	.4163831
w1currdrugs#c.timew1w3						
1	.1559108	.1021604	1.53	0.128	-.045209	.3570306
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	.0057993	.0193325	0.30	0.766	-.0333733	.044972
c.timew1w3#c.w1hei2010_total_scorecent43	-.0049286	.0040803	-1.21	0.228	-.0129543	.0030971
timew1w3	0 (omitted)					
w1BMIcontent30	.0239038	.0340217	0.70	0.482	-.0427793	.090587
c.timew1w3#c.w1BMIcontent30	-.0142856	.0070736	-2.02	0.043	-.0281496	-.0004216
timew1w3	0 (omitted)					
w1SRH						
2	-1.467253	.5226979	-2.81	0.005	-2.491727	-.4427801
3	-.5896973	.5534446	-1.07	0.287	-1.674438	.4950439
w1SRH#c.timew1w3						
2	-.1073132	.1100408	-0.98	0.329	-.3229905	.108364
3	-.0792889	.1166752	-0.68	0.497	-.3079713	.1493935
timew1w3	0 (omitted)					
w1CEScent15						
.0993513	.0211527	4.70	0.000	.0578904	.1408122	
c.timew1w3#c.w1CEScent15	-.004415	.0044687	-0.99	0.323	-.0131754	.0043454
timew1w3	0 (omitted)					
w1dxHTN						
Yes	-.1985988	.4387161	-0.45	0.651	-1.059255	.662057
w1dxHTN#c.timew1w3						
Yes	-.0094123	.0924576	-0.10	0.919	-.1906434	.1718188
timew1w3	0 (omitted)					
w1dxDiabetes						
preDiabetes	.0067139	.4717173	0.01	0.989	-.9196064	.9330342
Diabetes	1.116429	.6431425	1.74	0.084	-.1526389	2.385496
w1dxDiabetes#c.timew1w3						
preDiabetes	-.0642132	.0976006	-0.66	0.511	-.255513	.1270867
Diabetes	-.2265069	.1304168	-1.74	0.082	-.4821728	.029159

	timew1w3	0 (omitted)					
w1CVhighChol							
Yes	-.6033921	.4987254	-1.21	0.230	-1.596037	.3892527	
w1CVhighChol#c.timew1w3							
Yes	.1499423	.1025483	1.46	0.144	-.0512793	.3511639	
timew1w3		0 (omitted)					
1.w1cvdbr	1.076376	.6088578	1.77	0.080	-.1330055	2.285758	
w1cvdbr#c.timew1w3							
1	-.3321809	.1292642	-2.57	0.011	-.5865279	-.0778338	
timew1w3		0 (omitted)					
invmillsmms	.0096002	.0220466	0.44	0.663	-.0336112	.0528117	
c.timew1w3#c.invmillsmms							
	.0034695	.0044394	0.78	0.434	-.0052318	.0121708	
timew1w3		0 (omitted)					
zw1w3HCYTRAJ	-.0157917	.1539752	-0.10	0.918	-.3175805	.285997	
c.timew1w3#c.zw1w3HCYTRAJ							
	.0743564	.0314749	2.36	0.018	.0126662	.1360466	
_cons	7.888099	.9479079	8.32	0.000	6.030101	9.746096	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.6930119	.0801787	.5523509 .8694936
sd(_cons)	3.936017	.1943827	3.572832 4.336121
corr(timew1w3,_cons)	-.4506124	.0506936	-.5442363 -.3459024
sd(Residual)	1.61664	.3270514	1.087318 2.403643

341 .
 342 .
 343 . 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.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4eobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,021
Group variable: HNDID	Number of groups	= 580
	Obs per group:	
	min	= 1
	avg	= 1.8
	max	= 2
	Average RVI	= 0.0372
	Largest FMI	= 0.2478
DF adjustment: Large sample	DF:	min = 76.64
		avg = 1534487.57
		max = 4.85e+07
Model F test: Equal FMI	F(41, 9988.7)	= 4.85
	Prob > F	= 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.057926	.1093889	0.53	0.596	-.1565977 .2724498
w1Agecent48	-.010766	.0106498	-1.01	0.312	-.0316397 .0101077
c.timew1w3#c.w1Agecent48	-.0029927	.0025136	-1.19	0.234	-.0079193 .001934
timew1w3	0	(omitted)			
Sex Men	0	(omitted)			
Sex#c.timew1w3 Men	0	(omitted)			
timew1w3	0	(omitted)			
Race AfrAm	-.52105	.1850384	-2.82	0.005	-.8837308 -.1583692
Race#c.timew1w3 AfrAm	.0290513	.0440088	0.66	0.509	-.0572143 .115317
timew1w3	0	(omitted)			
PovStat Below	.4758564	.1943949	2.45	0.014	.0948424 .8568704
PovStat#c.timew1w3 Below	-.1015879	.0453443	-2.24	0.025	-.1904664 -.0127094
timew1w3	0	(omitted)			
w1edubr 2	.7287629	.3776455	1.93	0.054	-.0116276 1.469153
3	1.048212	.4214395	2.49	0.013	.2208757 1.875549
w1edubr#c.timew1w3 2	-.1378462	.0913618	-1.51	0.132	-.3170409 .0413484
3	-.150074	.099129	-1.51	0.130	-.3445238 .0443757
timew1w3	0	(omitted)			
w1WRATtotalcent42	.0628141	.0119319	5.26	0.000	.0394274 .0862008
c.timew1w3#c.w1WRATtotalcent42	.002013	.0028124	0.72	0.474	-.0034993 .0075253
timew1w3	0	(omitted)			
1.w1smoke	-.3616687	.202534	-1.79	0.075	-.7596451 .0363077
w1smoke#c.timew1w3 1	-.0290732	.0511496	-0.57	0.570	-.1299331 .0717868
timew1w3	0	(omitted)			
1.w1currdrugs	.1970663	.2118278	0.93	0.353	-.2187783 .6129108
w1currdrugs#c.timew1w3 1	.0419145	.0504622	0.83	0.406	-.05702 .140849
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	-.0110153	.0090228	-1.22	0.226	-.0289833 .0069526
c.timew1w3#c.w1hei2010_total_scorecent43	.000186	.0022029	0.08	0.933	-.0041527 .0045247

	timew1w3	0	(omitted)				
w1BMIcon30		- .0007849	.0164652	-0.05	0.962	- .033076	.0315062
c.timew1w3#c.w1BMIcon30		- .0005281	.0037928	-0.14	0.889	- .0079626	.0069063
	timew1w3	0	(omitted)				
w1SRH							
2		.1286892	.2435286	0.53	0.597	- .3486247	.6060031
3		-.0985806	.257748	-0.38	0.702	- .6037791	.406618
w1SRH#c.timew1w3							
2		.0756921	.0595203	1.27	0.203	- .0409667	.1923508
3		.0681958	.0632803	1.08	0.281	- .0558385	.19223
	timew1w3	0	(omitted)				
w1CEScent15		-.0189991	.0098772	-1.92	0.054	- .0383582	.00036
c.timew1w3#c.w1CEScent15		.0012578	.0023416	0.54	0.591	- .0033316	.0058472
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0033146	.2041308	0.02	0.987	- .3967829	.4034121
w1dxHTN#c.timew1w3							
Yes		-.0810583	.049852	-1.63	0.104	- .1787755	.0166588
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes							
Diabetes		-.164	.2150469	-0.76	0.446	- .5855157	.2575157
		-.4860238	.2823293	-1.72	0.085	-1.039466	.0674188
w1dxDiabetes#c.timew1w3							
preDiabetes							
Diabetes		.0695393	.0531717	1.31	0.191	- .0346856	.1737642
		-.0529822	.0692769	-0.76	0.444	- .1888327	.0828684
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.2438558	.2252156	1.08	0.280	- .1991708	.6868823
w1CVhighChol#c.timew1w3							
Yes		.0383663	.0574856	0.67	0.505	- .0748821	.1516146
	timew1w3	0	(omitted)				
1.w1cvdbr		.1679768	.2877778	0.58	0.560	- .4013209	.7372745
w1cvdbr#c.timew1w3							
1		-.026351	.0685511	-0.38	0.701	- .1611694	.1084674
	timew1w3	0	(omitted)				
invmillsmms		-.0052843	.0112376	-0.47	0.638	- .0273096	.016741
c.timew1w3#c.invmillsmms		.0027849	.002439	1.14	0.254	- .0019954	.0075653
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0690618	.0720465	-0.96	0.338	- .2102704	.0721469
c.timew1w3#c.zw1w3HCYTRAJ		-.0144636	.0168374	-0.86	0.390	- .0474644	.0185372

<u>_cons</u>	6.03046	.4485094	13.45	0.000	5.151111	6.909809
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0556128	.5588442	1.55e-10	1.99e+07
sd(_cons)	1.19875	.282563	.7552445	1.902697
corr(timew1w3,_cons)	.9088797	19.19492	-1	1
sd(Residual)	1.406925	.2167993	1.040172	1.90299

344 .

```
345 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4fobs==1 & Sex==2 || HNDID: timew1w3, cov(un)
—Break—
r(1);
```

end of do-file

—Break—
r(1);

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

```
347 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4fobs==1 & Sex==2 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regressionImputations = 5
Number of obs = 1,147

Group variable: HNDID

Number of groups = 593
Obs per group:min = 1
avg = 1.9
max = 2Average RVI = 0.0725
Largest FMI = 0.4225

DF adjustment: Large sample

DF: min = 27.43
avg = 1.46e+10
max = 6.56e+11

Model F test: Equal FMI

F(41,28999.3) = 3.68
Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1878064	.221284	0.85	0.396	-.2461959 .6218086
w1Agecent48	-.1052592	.0279231	-3.77	0.000	-.1600765 -.0504418
c.timew1w3#c.w1Agecent48	-.0034546	.005179	-0.67	0.505	-.0136066 .0066974
timew1w3	0	(omitted)			
Sex					
Men	0	(omitted)			
Sex#c.timew1w3					
Men	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-.8320741	.4713179	-1.77	0.077	-1.755864 .0917161
Race#c.timew1w3					
AfrAm	-.0082224	.0911116	-0.09	0.928	-.1868056 .1703609
timew1w3	0	(omitted)			
PovStat					
Below	-.0008507	.4966485	-0.00	0.999	-.9743227 .9726213
PovStat#c.timew1w3					
Below	.0038631	.0931671	0.04	0.967	-.1787438 .18647
timew1w3	0	(omitted)			
w1edubr					
2	.4775416	.9452106	0.51	0.613	-1.375531 2.330615
3	1.676899	1.041866	1.61	0.108	-.3658457 3.719643
w1edubr#c.timew1w3					
2	-.051431	.1852661	-0.28	0.781	-.4152038 .3123419
3	-.1042057	.2031319	-0.51	0.608	-.502868 .2944566
timew1w3	0	(omitted)			
w1WRATtotalcent42	.1584688	.0298653	5.31	0.000	.0999321 .2170056
c.timew1w3#c.w1WRATtotalcent42	.0024401	.0056767	0.43	0.667	-.0086871 .0135673
timew1w3	0	(omitted)			
1.w1smoke	-.303865	.518143	-0.59	0.558	-1.327 .7192697
w1smoke#c.timew1w3					
1	-.0531118	.09854	-0.54	0.590	-.2462739 .1400503
timew1w3	0	(omitted)			
1.w1currdrugs	-.0711147	.5807194	-0.12	0.903	-1.226212 1.083982
w1currdrugs#c.timew1w3					
1	.0689388	.107016	0.64	0.520	-.1411735 .2790512
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	.020336	.0235855	0.86	0.396	-.0280222 .0686942
c.timew1w3#c.w1hei2010_total_scorecent43	.0002945	.0046698	0.06	0.950	-.0089392 .0095282

	timew1w3	0	(omitted)				
w1BMIcon30		.0193143	.0407089	0.47	0.635	-.060506	.0991346
c.timew1w3#c.w1BMIcon30		-.0012966	.0078416	-0.17	0.869	-.0166736	.0140804
	timew1w3	0	(omitted)				
w1SRH							
2		-.0064027	.6176513	-0.01	0.992	-1.216978	1.204172
3		-.4528882	.653468	-0.69	0.488	-1.733686	.8279091
w1SRH#c.timew1w3							
2		-.0020625	.1199993	-0.02	0.986	-.2372579	.2331328
3		-.0384124	.1274785	-0.30	0.763	-.2882679	.211443
	timew1w3	0	(omitted)				
w1CEScent15		-.0468235	.0250657	-1.87	0.062	-.09596	.0023131
c.timew1w3#c.w1CEScent15		.005346	.0048026	1.11	0.266	-.0040685	.0147605
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.1416293	.5544564	-0.26	0.799	-1.237249	.9539904
w1dxHTN#c.timew1w3							
Yes		-.0497274	.1029925	-0.48	0.629	-.2517316	.1522769
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.5974687	.5427978	1.10	0.271	-.466428	1.661365
Diabetes		.4750056	.7337461	0.65	0.518	-.9673877	1.917399
w1dxDiabetes#c.timew1w3							
preDiabetes		-.0024262	.1087442	-0.02	0.982	-.2155802	.2107279
Diabetes		.034543	.140879	0.25	0.806	-.2416902	.3107761
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.5981199	.5381445	1.11	0.267	-.4592415	1.655481
w1CVhighChol#c.timew1w3							
Yes		-.0834529	.1157493	-0.72	0.471	-.3110066	.1441008
	timew1w3	0	(omitted)				
1.w1cvdbr		.0863429	.6554144	0.13	0.895	-1.200771	1.373457
w1cvdbr#c.timew1w3							
1		-.006033	.1318094	-0.05	0.963	-.2643917	.2523256
	timew1w3	0	(omitted)				
invmillsmms		-.0370441	.0316881	-1.17	0.242	-.0991518	.0250637
c.timew1w3#c.invmillsmms		.0097674	.006065	1.61	0.107	-.0021199	.0216547
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0166579	.1836542	0.09	0.928	-.3433041	.3766199
c.timew1w3#c.zw1w3HCYTRAJ		-.0407049	.0343914	-1.18	0.237	-.1081121	.0267022

_cons	19.15995	1.135594	16.87	0.000	16.93358	21.38631
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	2.68e-06	.0015754	0	.
sd(_cons)	3.995479	.1590414	3.695611	4.319677
sd(Residual)	3.129539	.09466	2.949397	3.320684

348 .
349 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Sex==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,124
Group variable: HNDID		
Number of groups	=	593
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(41, 29200.2)	= 6.41
	Prob > F	= 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.0201659	.0842861	-0.24	0.811	-.1854009	.1450692
w1Agecent48	-.0173795	.0103377	-1.68	0.093	-.0376413	.0028822
c.timew1w3#c.w1Agecent48	-.0025957	.0019878	-1.31	0.192	-.006492	.0013007
timew1w3		0 (omitted)				
Sex						
Men		0 (omitted)				
Sex#c.timew1w3						
Men		0 (omitted)				
timew1w3		0 (omitted)				
Race						
AfrAm	-.316214	.1804568	-1.75	0.080	-.6699922	.0375642
Race#c.timew1w3						
AfrAm	-.0222838	.0343065	-0.65	0.516	-.0895271	.0449596
timew1w3		0 (omitted)				
PovStat						

	Below	- .1270261	.1902308	-0.67	0.504	- .4999457	.2458934
PovStat#c.timew1w3	Below	- .0167999	.0354679	-0.47	0.636	- .0863184	.0527186
	timew1w3	0	(omitted)				
w1edubr							
2		-.3328268	.3609371	-0.92	0.356	-1.040315	.3746618
3		.0700827	.3959245	0.18	0.860	-.7060167	.8461821
w1edubr#c.timew1w3							
2		-.0208843	.0688716	-0.30	0.762	-.1558787	.1141101
3		-.0188064	.0765577	-0.25	0.806	-.1689236	.1313107
timew1w3		0	(omitted)				
w1WRATtotalcent42		.1067176	.0114559	9.32	0.000	.0842638	.1291714
c.timew1w3#c.w1WRATtotalcent42		.0015092	.0021522	0.70	0.483	-.0027093	.0057276
timew1w3		0	(omitted)				
1.w1smoke		.0121323	.2049103	0.06	0.953	-.3952279	.4194926
w1smoke#c.timew1w3							
1		-.0148441	.03962	-0.37	0.708	-.09281	.0631219
timew1w3		0	(omitted)				
1.w1currdrugs		.5050669	.2553871	1.98	0.060	-.0222763	1.03241
w1currdrugs#c.timew1w3							
1		.0012487	.0410375	0.03	0.976	-.0793361	.0818336
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0006269	.0081453	0.08	0.939	-.0156034	.0168572
c.timew1w3#c.w1hei2010_total_scorecent43		-.0003526	.0018202	-0.19	0.847	-.0039689	.0032636
timew1w3		0	(omitted)				
w1BMIcon30		-.0059135	.0157797	-0.37	0.708	-.036874	.025047
c.timew1w3#c.w1BMIcon30		.0032571	.002961	1.10	0.271	-.0025472	.0090614
timew1w3		0	(omitted)				
w1SRH							
2		.0549067	.237154	0.23	0.817	-.4099158	.5197292
3		-.1853757	.2503215	-0.74	0.459	-.6760525	.3053011
w1SRH#c.timew1w3							
2		.0548114	.0464631	1.18	0.238	-.0362548	.1458775
3		.0681246	.0493317	1.38	0.167	-.0285646	.1648138
timew1w3		0	(omitted)				
w1CEScent15		-.0113832	.009527	-1.19	0.232	-.0300574	.007291
c.timew1w3#c.w1CEScent15		-.0009559	.001826	-0.52	0.601	-.0045349	.002623
timew1w3		0	(omitted)				
w1dxHTN							
Yes		-.1597754	.2038461	-0.78	0.433	-.5599805	.2404298
w1dxHTN#c.timew1w3							

	Yes	- .0207585	.039083	-0.53	0.595	-.0973618	.0558449
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.1152484	.2079134	-0.55	0.579	-.5227862	.2922894
Diabetes		.102338	.2776178	0.37	0.712	-.4422246	.6469006
w1dxDiabetes#c.timew1w3							
preDiabetes		.0393895	.0410188	0.96	0.337	-.0410088	.1197877
Diabetes		-.0538057	.0563463	-0.95	0.340	-.1644055	.0567941
timew1w3		0	(omitted)				
w1CVhighChol							
Yes		.0007562	.2116567	0.00	0.997	-.4164702	.4179825
w1CVhighChol#c.timew1w3							
Yes		.0232491	.0453856	0.51	0.609	-.0663349	.1128332
timew1w3		0	(omitted)				
1.w1cvdbr		-.1109665	.2577888	-0.43	0.667	-.6177962	.3958632
w1cvdbr#c.timew1w3							
1		-.0771583	.0528766	-1.46	0.145	-.1809266	.0266099
timew1w3		0	(omitted)				
invmillsmms		-.0111291	.0111706	-1.00	0.319	-.0330232	.0107649
c.timew1w3#c.invmillsmms							
		.0012712	.0021677	0.59	0.558	-.0029774	.0055197
timew1w3		0	(omitted)				
zw1w3HCYTRAJ		.0364605	.0699612	0.52	0.602	-.1006648	.1735858
c.timew1w3#c.zw1w3HCYTRAJ							
		-.0095198	.0130256	-0.73	0.465	-.0350495	.01601
_cons		7.765297	.4367131	17.78	0.000	6.908887	8.621708

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0012963	.	.
sd(_cons)	1.540621	.	.
corr(timew1w3,_cons)	-.9999613	.	.
sd(Residual)	1.183088	.	.

```
351 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 & Sex==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations	=	5
Number of obs	=	1,116
Number of groups	=	594
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	.
Largest FMI	=	.
DF: min	=	0.00
avg	=	.
max	=	.
F(41, 23505.0)	=	7.74
Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0622186	.086896	0.72	0.474	-.1081061 .2325432
w1Agecent48	-.0270777	.0098907	-2.74	0.006	-.046466 -.0076894
c.timew1w3##c.w1Agecent48	-.0010956	.0020448	-0.54	0.592	-.0051035 .0029122
timew1w3	0 (omitted)				
Sex					
Men	0 (omitted)				
Sex#c.timew1w3					
Men	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	-.5571862	.1698958	-3.28	0.001	-.8901771 -.2241952
Race#c.timew1w3					
AfrAm	-.0388471	.0357486	-1.09	0.277	-.1089175 .0312233
timew1w3	0 (omitted)				
PovStat					
Below	.0427575	.1814039	0.24	0.814	-.3128487 .3983637
PovStat#c.timew1w3					
Below	-.0163891	.0370008	-0.44	0.658	-.0889128 .0561346
timew1w3	0 (omitted)				
w1edubr					
2	-.0901322	.3420676	-0.26	0.792	-.7605743 .5803099
3	.4239812	.3778316	1.12	0.262	-.3166117 1.164574
w1edubr#c.timew1w3					
2	-.0297063	.0707331	-0.42	0.675	-.1683408 .1089282
3	-.0260197	.078023	-0.33	0.739	-.1789441 .1269047

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1080657	.0110412	9.79	0.000	.0864226	.1297088
c.timew1w3#c.w1WRATtotalcent42		-.0012546	.002233	-0.56	0.574	-.0056312	.003122
	timew1w3	0	(omitted)				
	1.w1smoke	-.0344508	.1835511	-0.19	0.851	-.3949728	.3260712
w1smoke#c.timew1w3		-.0420731	.0423243	-0.99	0.322	-.1257285	.0415824
	timew1w3	0	(omitted)				
	1.w1currdrugs	.0743839	.2140425	0.35	0.729	-.3507797	.4995476
w1currdrugs#c.timew1w3		.0442226	.0423631	1.04	0.297	-.038927	.1273722
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0031128	.008377	-0.37	0.712	-.0200087	.0137831
c.timew1w3#c.w1hei2010_total_scorecent43		-.0011104	.0017847	-0.62	0.534	-.0046245	.0024037
	timew1w3	0	(omitted)				
	w1BMIcontent30	-.0043241	.0148917	-0.29	0.772	-.0335308	.0248827
c.timew1w3#c.w1BMIcontent30		.0006694	.0031455	0.21	0.832	-.0055046	.0068433
	timew1w3	0	(omitted)				
	w1SRH						
	2	.0372897	.2277664	0.16	0.870	-.4091648	.4837441
	3	-.1534625	.2458123	-0.62	0.533	-.6358663	.3289413
w1SRH#c.timew1w3							
	2	.0058283	.0482503	0.12	0.904	-.0887437	.1004003
	3	.0061653	.0516255	0.12	0.905	-.0950352	.1073658
	timew1w3	0	(omitted)				
	w1CEScent15	-.0204673	.0090564	-2.26	0.024	-.0382176	-.002717
c.timew1w3#c.w1CEScent15		.0000417	.0019049	0.02	0.983	-.0036923	.0037757
	timew1w3	0	(omitted)				
	w1dxHTN						
	Yes	.0450716	.1940157	0.23	0.816	-.33575	.4258932
w1dxHTN#c.timew1w3							
	Yes	-.0762953	.0407271	-1.87	0.061	-.1561311	.0035405
	timew1w3	0	(omitted)				
	w1dxDiabetes						
	preDiabetes	.2936858	.2012395	1.46	0.145	-.1009919	.6883635
	Diabetes	-.1554967	.2887711	-0.54	0.591	-.7280012	.4170078
w1dxDiabetes#c.timew1w3							
	preDiabetes	.0090223	.0423297	0.21	0.831	-.0739428	.0919873
	Diabetes	-.0221646	.0576126	-0.38	0.700	-.1351533	.090824
	timew1w3	0	(omitted)				

w1CVhighChol Yes	.0766317	.1960314	0.39	0.696	-.3077035	.4609669
w1CVhighChol#c.timew1w3 Yes	.0274271	.0513531	0.53	0.595	-.0755246	.1303789
timew1w3 1.w1cvdbr	0 (omitted) -.0626352	.3288057	-0.19	0.851	-.754748	.6294776
w1cvdbr#c.timew1w3 1	.0128014	.0632149	0.20	0.840	-.1142667	.1398695
timew1w3 invmillsmms	0 (omitted) .0036686	.0107588	0.34	0.733	-.0174184	.0247555
c.timew1w3#c.invmillsmms	-.0047599	.0022066	-2.16	0.031	-.0090848	-.000435
timew1w3 zw1w3HCYTRAJ	0 (omitted) -.0477452	.0663618	-0.72	0.472	-.1778132	.0823228
c.timew1w3#c.zw1w3HCYTRAJ	.0032034	.0134913	0.24	0.812	-.0232391	.0296459
_cons	5.678353	.4191876	13.55	0.000	4.856118	6.500587

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0008386	.	.
sd(_cons)	1.378558	.	.
corr(timew1w3,_cons)	.999973	.	.
sd(Residual)	1.225255	.	.

352 .
353 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4iobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,140

Group variable: HNDID

Number of groups	=	591
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(41,53561.3)	=	2.43
Prob > F	=	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0061743	.0691848	-0.09	0.929	-.1418782 .1295297
w1Agecent48	-.008165	.0060435	-1.35	0.177	-.0200101 .0036801
c.timew1w3#c.w1Agecent48	-.0009682	.0016106	-0.60	0.548	-.0041253 .0021889
timew1w3	0	(omitted)			
Sex					
Men	0	(omitted)			
Sex#c.timew1w3					
Men	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	-.3171988	.104923	-3.02	0.003	-.5228461 -.1115515
Race#c.timew1w3					
AfrAm	.0326521	.0279686	1.17	0.243	-.0221663 .0874705
timew1w3	0	(omitted)			
PovStat					
Below	.3228953	.1106154	2.92	0.004	.1060928 .5396978
PovStat#c.timew1w3					
Below	.0126002	.0288078	0.44	0.662	-.0438623 .0690627
timew1w3	0	(omitted)			
w1edubr					
2	-.07711	.2154491	-0.36	0.720	-.4995319 .3453118
3	-.009241	.2395215	-0.04	0.969	-.4791641 .4606821
w1edubr#c.timew1w3					
2	.0380024	.0563575	0.67	0.500	-.0724759 .1484807
3	.0659148	.0623075	1.06	0.290	-.0562647 .1880943
timew1w3	0	(omitted)			
w1WRATtotalcent42	.0234528	.0068515	3.42	0.001	.0100209 .0368847
c.timew1w3#c.w1WRATtotalcent42	-.001867	.001779	-1.05	0.294	-.0053544 .0016204
timew1w3	0	(omitted)			
1.w1smoke	.0247545	.1139737	0.22	0.828	-.1987094 .2482183
w1smoke#c.timew1w3					
1	-.0483707	.0321242	-1.51	0.133	-.1115895 .0148481
timew1w3	0	(omitted)			
1.w1currdrugs	.1832	.1281974	1.43	0.154	-.0691117 .4355118
w1currdrugs#c.timew1w3					
1	-.0529903	.0338581	-1.57	0.119	-.119594 .0136134
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	.0044794	.0052496	0.85	0.396	-.0059766 .0149353
c.timew1w3#c.w1hei2010_total_scorecent43	-.0017094	.0014161	-1.21	0.229	-.0045057 .0010869

	timew1w3	0	(omitted)				
w1BMIcon30		- .0079948	.0089958	-0.89	0.374	-.0256265	.0096369
c.timew1w3#c.w1BMIcon30		.0036958	.0024451	1.51	0.131	-.0010999	.0084915
	timew1w3	0	(omitted)				
w1SRH							
2		.2809039	.1391291	2.02	0.043	.0082144	.5535934
3		.0407114	.1476089	0.28	0.783	-.248608	.3300309
w1SRH#c.timew1w3							
2		-.0060408	.0373167	-0.16	0.871	-.0791803	.0670986
3		-.0111854	.0395116	-0.28	0.777	-.0886282	.0662573
	timew1w3	0	(omitted)				
w1CEScent15		-.0106736	.0056393	-1.89	0.058	-.021727	.0003797
c.timew1w3#c.w1CEScent15		.0006185	.001509	0.41	0.682	-.0023406	.0035775
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0560904	.1177367	0.48	0.634	-.1747104	.2868912
w1dxHTN#c.timew1w3							
Yes		-.0401182	.0316046	-1.27	0.204	-.1020736	.0218373
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.0905841	.1245233	-0.73	0.467	-.3347011	.1535329
Diabetes		.0978837	.1640733	0.60	0.551	-.2239689	.4197363
w1dxDiabetes#c.timew1w3							
preDiabetes		.0169047	.033387	0.51	0.613	-.0485345	.0823438
Diabetes		-.0655396	.0438106	-1.50	0.135	-.1514096	.0203305
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0553239	.1386047	-0.40	0.691	-.3310136	.2203659
w1CVhighChol#c.timew1w3							
Yes		.0042198	.0371964	0.11	0.910	-.0692329	.0776724
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0623543	.156696	-0.40	0.691	-.3699368	.2452282
w1cvdbr#c.timew1w3							
1		-.0231194	.0436714	-0.53	0.597	-.1090416	.0628029
	timew1w3	0	(omitted)				
invmillsmms		.0037058	.0069399	0.53	0.593	-.0098961	.0173077
c.timew1w3#c.invmillsmms		-.0016093	.001622	-0.99	0.321	-.0047884	.0015697
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.0376206	.0409987	-0.92	0.359	-.1179766	.0427354
c.timew1w3#c.zw1w3HCYTRAJ		-.0114414	.0105383	-1.09	0.278	-.0320963	.0092134

	<u>_cons</u>	8.785131	.2643566	33.23	0.000	8.266165	9.304098
--	--------------	-----------------	-----------------	--------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	9.71e-07	.	.	
sd(_cons)	.5810303	.0500981	.4906879	.6880059
sd(Residual)	.9855746	.0298654	.9287433	1.045883

354 .
 355 . 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
 > imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4jobs==1 & Sex==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,097
Group variable: HNDID		
Number of groups	=	579
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0699
Largest FMI	=	0.4584
DF adjustment: Large sample	DF:	min = 23.35 avg = 1137108.43 max = 2.73e+07
Model F test: Equal FMI	F(41, 31047.2)	= 5.55
	Prob > F	= 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0034425	.0179299	0.19	0.848	-.0317073 .0385923
w1Agecent48	.0115287	.0019619	5.88	0.000	.007683 .0153743
c.timew1w3#c.w1Agecent48	.0009448	.0004137	2.28	0.022	.0001341 .0017556
timew1w3	0	(omitted)			
Sex					
Men	0	(omitted)			
Sex#c.timew1w3					
Men	0	(omitted)			
timew1w3	0	(omitted)			
Race					
AfrAm	.2005064	.0341129	5.88	0.000	.1336433 .2673696
Race#c.timew1w3					
AfrAm	-.0090372	.0072848	-1.24	0.215	-.0233152 .0052408
timew1w3	0	(omitted)			
PovStat					

	Below	.0315373	.0360378	0.88	0.382	-.0390961	.1021707
PovStat#c.timew1w3	Below	-.0012779	.0075119	-0.17	0.865	-.016001	.0134453
	timew1w3	0 (omitted)					
w1edubr							
2		-.0682947	.0707224	-0.97	0.334	-.2069892	.0703998
3		-.1105857	.0771572	-1.43	0.152	-.261923	.0407515
w1edubr#c.timew1w3							
2		.0019822	.0146882	0.13	0.893	-.0268075	.0307719
3		.0026527	.0161752	0.16	0.870	-.0290581	.0343636
timew1w3		0 (omitted)					
w1WRATtotalcent42		-.0073995	.0022266	-3.32	0.001	-.0117635	-.0030354
c.timew1w3#c.w1WRATtotalcent42		-.0001945	.0004685	-0.42	0.678	-.0011128	.0007238
timew1w3		0 (omitted)					
1.w1smoke		-.0331602	.0396953	-0.84	0.406	-.1120015	.045681
w1smoke#c.timew1w3							
1		.0036377	.0081727	0.45	0.656	-.0124011	.0196765
timew1w3		0 (omitted)					
1.w1currdrugs		.0464418	.0410874	1.13	0.260	-.0345798	.1274633
w1currdrugs#c.timew1w3							
1		-.0032463	.0088067	-0.37	0.713	-.0205473	.0140548
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		-.000374	.0017319	-0.22	0.830	-.0038826	.0031346
c.timew1w3#c.w1hei2010_total_scorecent43		.000233	.000383	0.61	0.544	-.0005245	.0009905
timew1w3		0 (omitted)					
w1BMIcontent30		-.000434	.0029577	-0.15	0.883	-.0062318	.0053637
c.timew1w3#c.w1BMIcontent30		-.0000904	.0006288	-0.14	0.886	-.0013228	.001142
timew1w3		0 (omitted)					
w1SRH							
2		-.0857621	.0455879	-1.88	0.060	-.1751135	.0035893
3		-.0922581	.0481993	-1.91	0.056	-.1867281	.0022119
w1SRH#c.timew1w3							
2		.0077415	.0100348	0.77	0.440	-.0119267	.0274097
3		.0057394	.0106458	0.54	0.590	-.0151265	.0266052
timew1w3		0 (omitted)					
w1CEScent15		0.003307	.0018165	0.18	0.856	-.0032296	.003891
c.timew1w3#c.w1CEScent15		.0010965	.0003876	2.83	0.005	.0003368	.0018562
timew1w3		0 (omitted)					
w1dxHTN							
Yes		-.0094436	.040605	-0.23	0.816	-.089597	.0707098
w1dxHTN#c.timew1w3							

	Yes	.0051006	.0082339	0.62	0.536	-.0110385	.0212397
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.0204645	.0410052	0.50	0.618	-.0599609	.10089
Diabetes		.0491733	.0545505	0.90	0.368	-.0580838	.1564304
w1dxDiabetes#c.timew1w3							
preDiabetes		-.0103148	.0088526	-1.17	0.244	-.0276661	.0070365
Diabetes		-.0125122	.0116514	-1.07	0.283	-.0353494	.010325
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0354533	.0501129	-0.71	0.486	-.1390344	.0681278
w1CVhighChol#c.timew1w3							
Yes		.0045089	.008942	0.50	0.614	-.0130175	.0220353
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0232482	.0514143	-0.45	0.652	-.124541	.0780447
w1cvdbr#c.timew1w3							
1		.0111735	.0114746	0.97	0.331	-.0113967	.0337437
	timew1w3	0	(omitted)				
invmillsmms		.0081681	.0021187	3.86	0.000	.0040154	.0123207
c.timew1w3#c.invmillsmms							
c.timew1w3#c.invmillsmms		-.0006943	.0004268	-1.63	0.104	-.0015309	.0001422
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0249563	.0133363	1.87	0.061	-.0011825	.0510952
c.timew1w3#c.zw1w3HCYTRAJ							
c.timew1w3#c.zw1w3HCYTRAJ		.0015519	.0027562	0.56	0.573	-.0038503	.006954
	_cons	3.545776	.0842748	42.07	0.000	3.380517	3.711035

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0141094	.0147713	.0018129	.1098102
sd(_cons)	.268445	.0125637	.2449163	.2942342
sd(Residual)	.2429496	.0120155	.2205049	.2676788

356 .

```
357 . 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##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4kobs==1 & Sex==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,061

Group variable: HNDID Number of groups = 571
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0535
 Largest FMI = 0.3555
 DF adjustment: Large sample DF: min = 38.40
 avg = 892,940.50
 max = 3.12e+07
 Model F test: Equal FMI F(41,49592.3) = 10.61
 Prob > F = 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0282656	.02581	-1.10	0.273	-.0788594 .0223282
w1Agecent48	.0199253	.0028353	7.03	0.000	.0143683 .0254823
c.timew1w3#c.w1Agecent48	-.0000403	.000569	-0.07	0.944	-.0011555 .0010748
timew1w3	0 (omitted)				
Sex					
Men	0 (omitted)				
Sex#c.timew1w3					
Men	0 (omitted)				
timew1w3	0 (omitted)				
Race					
AfrAm	.3082286	.0496039	6.21	0.000	.2110066 .4054506
Race#c.timew1w3					
AfrAm	.0015432	.0102185	0.15	0.880	-.0184851 .0215715
timew1w3	0 (omitted)				
PovStat					
Below	.109875	.0525155	2.09	0.036	.0069466 .2128034
PovStat#c.timew1w3					
Below	-.0063982	.0106901	-0.60	0.550	-.0273513 .0145549
timew1w3	0 (omitted)				
w1edubr					
2	-.2892605	.1032049	-2.80	0.005	-.4916416 -.0868795
3	-.4301548	.1112567	-3.87	0.000	-.6482644 -.2120453
w1edubr#c.timew1w3					
2	.0022198	.0215906	0.10	0.918	-.0401185 .0445582
3	.0135131	.0232044	0.58	0.560	-.0319787 .0590048
timew1w3	0 (omitted)				
w1WRATtotalcent42	-.0236278	.0032802	-7.20	0.000	-.0300572 -.0171983
c.timew1w3#c.w1WRATtotalcent42	.0001652	.0006745	0.24	0.807	-.0011568 .0014871
timew1w3	0 (omitted)				
1.w1smoke	.0170573	.0537383	0.32	0.751	-.088546 .1226605

w1smoke#c.timew1w3							
1	.0095839	.0113947	0.84	0.400	-.0127698	.0319375	
timew1w3	0	(omitted)					
1.w1currdrugs	-.0646298	.0602321	-1.07	0.285	-.1836078	.0543483	
w1currdrugs#c.timew1w3							
1	.020323	.0127014	1.60	0.111	-.0047236	.0453695	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	.0018981	.0024649	0.77	0.446	-.0030902	.0068864	
c.timew1w3#c.w1hei2010_total_scorecent43	-.000144	.0005627	-0.26	0.799	-.0012703	.0009822	
timew1w3	0	(omitted)					
w1BMIcon30	.0007868	.0042739	0.18	0.854	-.00759	.0091635	
c.timew1w3#c.w1BMIcon30	.0000643	.0008815	0.07	0.942	-.0016637	.0017923	
timew1w3	0	(omitted)					
w1SRH							
2	-.1633661	.0664567	-2.46	0.014	-.293619	-.0331132	
3	-.0327246	.0702256	-0.47	0.641	-.1703647	.1049155	
w1SRH#c.timew1w3							
2	.0105943	.0141246	0.75	0.453	-.0170895	.0382781	
3	.0101147	.0150559	0.67	0.502	-.019395	.0396244	
timew1w3	0	(omitted)					
w1CEScent15	.0077754	.0026626	2.92	0.004	.0025565	.0129942	
c.timew1w3#c.w1CEScent15	.0001634	.0005633	0.29	0.772	-.0009412	.001268	
timew1w3	0	(omitted)					
w1dxHTN							
Yes	-.0061787	.055085	-0.11	0.911	-.1141707	.1018134	
w1dxHTN#c.timew1w3							
Yes	.0060156	.0114058	0.53	0.598	-.0163409	.028372	
timew1w3	0	(omitted)					
w1dxDiabetes							
preDiabetes	-.0399153	.0599612	-0.67	0.506	-.1575695	.0777388	
Diabetes	.0526556	.076733	0.69	0.493	-.0978252	.2031364	
w1dxDiabetes#c.timew1w3							
preDiabetes	-.000437	.0122965	-0.04	0.972	-.024539	.0236649	
Diabetes	.0000397	.016435	0.00	0.998	-.0321755	.0322548	
timew1w3	0	(omitted)					
w1CVhighChol							
Yes	-.0605505	.0589446	-1.03	0.305	-.1765543	.0554533	
w1CVhighChol#c.timew1w3							
Yes	.0146367	.0126785	1.15	0.249	-.0102436	.039517	
timew1w3	0	(omitted)					
1.w1cvdbr	.0226295	.0791763	0.29	0.776	-.1351953	.1804543	

w1cvdbr#c.timew1w3							
1	.0268045	.0152171	1.76	0.078	-.0030431	.0566522	
timew1w3	0 (omitted)						
invmillsmms	.006312	.0030856	2.05	0.041	.0002641	.0123599	
c.timew1w3#c.invmillsmms	-.001371	.0005911	-2.32	0.020	-.0025295	-.0002124	
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	.0422585	.0195697	2.16	0.031	.0039022	.0806148	
c.timew1w3#c.zw1w3HCYTRAJ	.0066856	.0038974	1.72	0.086	-.0009532	.0143244	
_cons	4.849002	.1219619	39.76	0.000	4.609923	5.088081	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0609853	.015441	.0371284	.1001713
sd(_cons)	.4570472	.0283891	.4046589	.5162178
corr(timew1w3,_cons)	-.4054908	.0768918	-.5445243	-.2447694
sd(Residual)	.2626726	.0378878	.1979874	.3484914

```

358 .
359 .
360 . save, replace
      file finaldata_imputed_FINAL.dta saved

361 .
      end of do-file

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

363 . ****TABLE 3: HOMOCYSTEINE TRAJECTORY VS. COGNITIVE CHANGE OVER TIME: INTERACTION BY
364 .
365 .
366 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
367 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0000
      Largest FMI = 0.0000
      DF: min = 1.26e+54
            avg = 5.16e+66
            max = .
      F( 15, 1.2e+65) = 14.13
      Prob > F = 0.0000

```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0099673	.0205506	-0.49	0.628	-.0502458 .0303112
w1Agecent48	-.0282646	.006007	-4.71	0.000	-.0400381 -.016491
c.timew1w3#c.w1Agecent48	-.0021931	.0011653	-1.88	0.060	-.0044771 .0000909
timew1w3	0	(omitted)			
Sex Men	-.3717814	.1134514	-3.28	0.001	-.5941421 -.1494207
Sex#c.timew1w3 Men	.0269476	.0220772	1.22	0.222	-.0163228 .0702181
timew1w3	0	(omitted)			
Race AfrAm	-.7810729	.1120038	-6.97	0.000	-1.000596 -.5615495
Race#c.timew1w3 AfrAm	.0025225	.0219573	0.11	0.909	-.040513 .045558
timew1w3	0	(omitted)			
PovStat Below	-.5466551	.1160224	-4.71	0.000	-.7740549 -.3192553
PovStat#c.timew1w3 Below	-.0146458	.0221677	-0.66	0.509	-.0580937 .0288022
timew1w3	0	(omitted)			
invmillsmms	.0091824	.0035971	2.55	0.011	.0021323 .0162325
c.timew1w3#c.invmillsmms	-.0018794	.0006371	-2.95	0.003	-.003128 -.0006307
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.0126352	.0942316	0.13	0.893	-.1720554 .1973257
c.timew1w3#c.zw1w3HCYTRAJ	-.0022332	.0177847	-0.13	0.900	-.0370906 .0326242
Sex#c.zw1w3HCYTRAJ Men	-.1300158	.1181053	-1.10	0.271	-.3614979 .1014663
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0110143	.0225229	0.49	0.625	-.0331298 .0551584
_cons	28.65101	.1030825	277.94	0.000	28.44897 28.85305

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.12009	.0134102	.0964839	.1494718
sd(_cons)	1.649433	.0501116	1.554083	1.750633
corr(timew1w3,_cons)	-1	.0000314	-1	1
sd(Residual)	1.200818	.0256353	1.15161	1.252128

```

368 .
369 .
370 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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: min =      0.00
          avg =      .
          max =      .

DF adjustment: Large sample

Model F test: Equal FMI
F( 15, 1.6e+65) =     15.71
Prob > F          = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	- .2003601	.1655314	-1.21	0.226	-.5247957	.1240755
w1Agecent48	-.2240001	.0440619	-5.08	0.000	-.3103598	-.1376405
c.timew1w3#c.w1Agecent48	-.018298	.009364	-1.95	0.051	-.036651	.0000551
timew1w3	0	(omitted)				
Sex						
Men	-2.11746	.8322938	-2.54	0.011	-3.748725	-.4861938
Sex#c.timew1w3						
Men	.1578803	.1773903	0.89	0.373	-.1897984	.505559
timew1w3	0	(omitted)				
Race						
AfrAm	-6.951833	.8215737	-8.46	0.000	-8.562088	-5.341578
Race#c.timew1w3						
AfrAm	.0772141	.1765425	0.44	0.662	-.2688028	.4232311
timew1w3	0	(omitted)				
PovStat						
Below	-4.198317	.8513874	-4.93	0.000	-5.867006	-2.529629
PovStat#c.timew1w3						
Below	-.2305285	.177872	-1.30	0.195	-.5791512	.1180942
timew1w3	0	(omitted)				
invmillsmms	.0525159	.0263992	1.99	0.047	.0007744	.1042574
c.timew1w3#c.invmillsmms	-.0097059	.0050757	-1.91	0.056	-.0196542	.0002424
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.0373673	.6916719	-0.05	0.957	-1.393019	1.318285
c.timew1w3#c.zw1w3HCYTRAJ	.0107077	.1424209	0.08	0.940	-.2684321	.2898475

Sex#c.zw1w3HCYTRAJ						
Men	-.5050914	.8665529	-0.58	0.560	-2.203504	1.193321
Sex#c.timew1w3#c.zw1w3HCYTRAJ						
Men	.0070967	.1807711	0.04	0.969	-.3472081	.3614015
_cons	83.78573	.7557763	110.86	0.000	82.30444	85.26703

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.5388599	.		
sd(_cons)	11.17726	.3261547	10.55594	11.83514
corr(timew1w3,_cons)	-1	1.13e-10	-1	-1
sd(Residual)	9.963317	.2068169	9.566099	10.37703

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 373 .
 374 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
 > c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
 > 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
DF adjustment: Large sample	Average RVI	= 0.0000
	Largest FMI	= 0.0000
	<u>DF:</u> min	= 1.38e+61
	avg	= 1.38e+61
	max	= .
Model F test: Equal FMI	F(15, 2.3e+64)	= 89.34
	Prob > F	= 0.0000

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-1.151201	.0706131	-16.30	0.000	-1.2896	-1.012802
w1Agecent48	-.1504541	.019483	-7.72	0.000	-.1886402	-.112268
c.timew1w3#c.w1Agecent48	-.008269	.003888	-2.13	0.033	-.0158893	-.0006487
timew1w3	0	(omitted)				
Sex						
Men	-2.486704	.3665547	-6.78	0.000	-3.205138	-1.76827
Sex#c.timew1w3						
Men	-.1428475	.0733712	-1.95	0.052	-.2866525	.0009574
timew1w3	0	(omitted)				
Race						

	AfrAm	-2.843073	.363505	-7.82	0.000	-3.555529	-2.130616
Race#c.timew1w3							
AfrAm		.0887935	.0734589	1.21	0.227	-.0551833	.2327703
timew1w3			0	(omitted)			
PovStat							
Below		-1.732275	.3708069	-4.67	0.000	-2.459043	-1.005506
PovStat#c.timew1w3							
Below		.0008887	.0722686	0.01	0.990	-.1407551	.1425325
timew1w3			0	(omitted)			
invmillsmms		.019452	.0111408	1.75	0.081	-.0023835	.0412876
c.timew1w3#c.invmillsmms		-.0003896	.0019922	-0.20	0.845	-.0042942	.0035151
timew1w3			0	(omitted)			
zw1w3HCYTRAJ		.8490014	.3020321	2.81	0.005	.2570294	1.440973
c.timew1w3#c.zw1w3HCYTRAJ		-.09005	.0594652	-1.51	0.130	-.2065998	.0264997
Sex#c.zw1w3HCYTRAJ							
Men		-.7604434	.381294	-1.99	0.046	-1.507766	-.0131209
Sex#c.timew1w3#c.zw1w3HCYTRAJ							
Men		.0571774	.0749265	0.76	0.445	-.0896759	.2040307
_cons		28.27895	.3384465	83.56	0.000	27.61561	28.94229

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.2711198	.1396468	.0987938	.7440345
sd(_cons)	4.927148	.1350438	4.669451	5.199068
sd(Residual)	3.7564	.1352491	3.500453	4.03106

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377 .

378 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
 > c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
 > if sample4cobs==1 || HNDID:

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 =	0.0000
	Largest FMI =	0.0000
DF adjustment:	Large sample	DF: min = . avg = . max = .
Model F test:	Equal FMI	F(15, .) = 55.14 Prob > F = 0.0000

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.3686526	.0345726	-10.66	0.000	-.4364137 -.3008915
w1Agecent48	-.0803058	.0091543	-8.77	0.000	-.0982479 -.0623637
c.timew1w3#c.w1Agecent48	-.0035622	.0019066	-1.87	0.062	-.0072991 .0001746
timew1w3	0 (omitted)				
Sex					
Men	-1.124493	.172008	-6.54	0.000	-1.461622 -.7873634
Sex#c.timew1w3					
Men	-.0430764	.0357274	-1.21	0.228	-.1131008 .0269479
timew1w3	0 (omitted)				
Race					
AfrAm	-1.567143	.1702533	-9.20	0.000	-1.900833 -1.233452
Race#c.timew1w3					
AfrAm	.0233689	.0358188	0.65	0.514	-.0468347 .0935725
timew1w3	0 (omitted)				
PovStat					
Below	-.5854348	.1734879	-3.37	0.001	-.925465 -.2454047
PovStat#c.timew1w3					
Below	-.0287142	.0351488	-0.82	0.414	-.0976047 .0401763
timew1w3	0 (omitted)				
invmillsmms	.0092095	.005161	1.78	0.074	-.0009059 .0193249
c.timew1w3#c.invmillsmms	-.0003771	.0009389	-0.40	0.688	-.0022174 .0014631
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	.521391	.1421321	3.67	0.000	.2428173 .7999647
c.timew1w3#c.zw1w3HCYTRAJ	-.0525149	.0296011	-1.77	0.076	-.110532 .0055022
Sex#c.zw1w3HCYTRAJ					
Men	-.4014991	.1800331	-2.23	0.026	-.7543574 -.0486407
Sex#c.timew1w3#c.zw1w3HCYTRAJ					
Men	.0288586	.0370121	0.78	0.436	-.0436839 .1014011
_cons	9.053671	.1587099	57.05	0.000	8.742606 9.364737

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Identity sd(_cons)	2.195435	.0644838	2.072618	2.32553
sd(Residual)	1.82417	.0420689	1.743553	1.908516

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 380 .
 381 .
 382 . mi estimate: mixed BVRTot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
 > c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
 > if sample4dobs==1 || HNDID: timew1w3, cov(un)

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 =	0.0000
	Largest FMI =	0.0000
DF adjustment: Large sample	DF: min =	1.57e+61
	avg =	1.57e+61
	max =	.
Model F test: Equal FMI	F(15, 3.4e+63) =	37.45
	Prob > F =	0.0000

BVRTot	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.2422165	.0478197	5.07	0.000	.1484916	.3359414
w1Agecent48	.1336763	.0137793	9.70	0.000	.1066694	.1606833
c.timew1w3#c.w1Agecent48	.0077123	.0027419	2.81	0.005	.0023382	.0130863
timew1w3	0 (omitted)					
Sex Men	-.9808327	.2604173	-3.77	0.000	-1.491241	-.4704241
Sex#c.timew1w3 Men	.0853532	.0517261	1.65	0.099	-.016028	.1867345
timew1w3	0 (omitted)					
Race AfrAm	1.090012	.2567273	4.25	0.000	.5868355	1.593188
Race#c.timew1w3 AfrAm	.1606185	.0512877	3.13	0.002	.0600964	.2611405
timew1w3	0 (omitted)					
PovStat Below	1.196593	.265396	4.51	0.000	.6764266	1.71676
PovStat#c.timew1w3						

	Below	.0830945	.0521362	1.59	0.111	-.0190906	.1852797
	timew1w3 invmillsmms	0 -.017647	(omitted) .0082898	-2.13	0.033	-.0338947	-.0013994
	c.timew1w3#c.invmillsmms	-.0002291	.0015495	-0.15	0.882	-.0032661	.0028079
	timew1w3 zw1w3HCYTRAJ	0 -.0893794	(omitted) .2150919	-0.42	0.678	-.5109518	.332193
	c.timew1w3#c.zw1w3HCYTRAJ	.021582	.0419804	0.51	0.607	-.0606981	.1038621
	Sex#c.zw1w3HCYTRAJ Men	.1947141	.2697966	0.72	0.470	-.3340774	.7235057
	Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0576134	.0526963	1.09	0.274	-.0456693	.1608962
	_cons	5.694827	.2361189	24.12	0.000	5.232042	6.157611

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.6848141	.0579334	.5801808 .8083176
sd(_cons)	4.273891	.1325237	4.021885 4.541688
corr(timew1w3,_cons)	-.4230438	.0353825	-.4898464 -.3513024
sd(Residual)	1.89384	.2045227	1.532565 2.34028

383 .
 384 .
 385 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
 > if sample4eobs==1 || HNDID: timew1w3, cov(un)

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
DF adjustment: Large sample	Average RVI = 0.0000
	Largest FMI = 0.0000
	DF: min = 2.82e+62
	avg = 4.67e+62
	max = .
Model F test: Equal FMI	F(15, 3.7e+64) = 12.10
	Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3 w1Agecent48	-.0501214 -.0235856	.0246318 .0063972	-2.03 -3.69	0.042 0.000	-.0983989 -.036124 -.0018439 -.0110472
c.timew1w3#c.w1Agecent48	-.0028024	.0013806	-2.03	0.042	-.0055084 -.0000964
timew1w3	0	(omitted)			
Sex Men	-.2162048	.1214609	-1.78	0.075	-.4542638 .0218543
Sex#c.timew1w3 Men	-.0028453	.0261788	-0.11	0.913	-.0541549 .0484642
timew1w3	0	(omitted)			
Race AfrAm	-.9503707	.1199518	-7.92	0.000	-1.185472 -.7152695
Race#c.timew1w3 AfrAm	.0275164	.0260233	1.06	0.290	-.0234884 .0785211
timew1w3	0	(omitted)			
PovStat Below	-.4120782	.1232468	-3.34	0.001	-.6536374 -.170519
PovStat#c.timew1w3 Below	-.0562723	.0260729	-2.16	0.031	-.1073742 -.0051703
timew1w3 invmillsmms	0 .0016729	(omitted) .0037178	0.45	0.653	-.0056138 .0089597
c.timew1w3#c.invmillsmms	-.0005407	.0007287	-0.74	0.458	-.001969 .0008876
timew1w3 zw1w3HCYTRAJ	0 .0570985	(omitted) .1008485	0.57	0.571	-.140561 .254758
c.timew1w3#c.zw1w3HCYTRAJ	-.010205	.0215961	-0.47	0.637	-.0525326 .0321226
Sex#c.zw1w3HCYTRAJ Men	-.1654585	.1267667	-1.31	0.192	-.4139167 .0829998
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	-.0144493	.0270913	-0.53	0.594	-.0675473 .0386486
_cons	7.569621	.1101447	68.72	0.000	7.353741 7.7855

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0830813	.1438653	.0027896	2.474354
sd(_cons)	1.524059	.1074552	1.327355	1.749914
corr(timew1w3,_cons)	.1227338	.6990534	-.8531781	.907722
sd(Residual)	1.39135	.1003228	1.207982	1.602551

386 .
 387 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
 > if sample4fobs==1 || HNDID: timew1w3, cov(un)

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
	Average RVI = 0.0000
	Largest FMI = 0.0000
DF adjustment: Large sample	DF: min = 4.49e+63
	avg = 4.95e+64
	max = .
Model F test: Equal FMI	F(15, 4.0e+65) = 11.66
	Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0611844	.049178	1.24	0.213	-.0352026 .1575715
w1Agecent48	-.0876561	.0153402	-5.71	0.000	-.1177224 -.0575899
c.timew1w3#c.w1Agecent48	-.0031151	.0027775	-1.12	0.262	-.0085589 .0023288
timew1w3	0 (omitted)				
Sex					
Men	1.072739	.2894378	3.71	0.000	.5054512 1.640027
Sex#c.timew1w3	.0005137	.0524804	0.01	0.992	-.1023459 .1033733
Men					
timew1w3	0 (omitted)				
Race					
AfrAm	-1.988465	.286382	-6.94	0.000	-2.549763 -1.427166
Race#c.timew1w3	-.0341413	.0524585	-0.65	0.515	-.1369581 .0686754
AfrAm					
timew1w3	0 (omitted)				
PovStat					
Below	-1.533446	.2961973	-5.18	0.000	-2.113982 -.9529097
PovStat#c.timew1w3	.0280169	.0526786	0.53	0.595	-.0752314 .1312651
Below					
timew1w3	0 (omitted)				
invmillsmms	.0111995	.0093992	1.19	0.233	-.0072226 .0296216
c.timew1w3#c.invmillsmms	-.0012594	.0015815	-0.80	0.426	-.004359 .0018402
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.2215853	.2395348	-0.93	0.355	-.6910649 .2478943
c.timew1w3#c.zw1w3HCYTRAJ	-.0155133	.042604	-0.36	0.716	-.0990157 .067989

Sex#c.zw1w3HCYTRAJ Men	.1035025	.300807	0.34	0.731	-.4860684	.6930733
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	-.0297323	.0534667	-0.56	0.578	-.1345251	.0750605
_cons	20.28021	.2623229	77.31	0.000	19.76606	20.79435

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.2596858	.1727673	.0704935	.9566371
sd(_cons)	4.330019	.1633255	4.021454	4.662261
corr(timew1w3,_cons)	-.1778052	.1242162	-.4062592	.0715696
sd(Residual)	2.923546	.1736967	2.602181	3.284599

388 .

389 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4gobs==1 || HNDID: timew1w3, cov(un)

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	
DF adjustment: Large sample	Average RVI	=	.	
	Largest FMI	=	.	
	DF:	min	=	0.00
		avg	=	.
		max	=	.
Model F test: Equal FMI	F(15, 1.8e+64)	=	8.08	
	Prob > F	=	0.0000	

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0244265	.0194372	1.26	0.209	-.0136698	.0625227
w1Agecent48	-.0175435	.0061648	-2.85	0.004	-.0296263	-.0054607
c.timew1w3#c.w1Agecent48	-.0034995	.0010927	-3.20	0.001	-.0056411	-.0013579
timew1w3	0	(omitted)				
Sex						
Men	.2403193	.1163794	2.06	0.039	.0122199	.4684187
Sex#c.timew1w3						
Men	-.0322975	.0207225	-1.56	0.119	-.0729129	.0083178
timew1w3	0	(omitted)				
Race						
AfrAm	-.7058235	.1149751	-6.14	0.000	-.9311706	-.4804765
Race#c.timew1w3						

AfrAm	- .0142935	.0206248	-0.69	0.488	- .0547175	.0261304
timew1w3	0	(omitted)				
PovStat Below	-.4805663	.1188749	-4.04	0.000	- .7135568	- .2475758
PovStat#c.timew1w3 Below	-.0226899	.0207056	-1.10	0.273	- .0632722	.0178924
timew1w3 invmillsmms	0	(omitted)	1.56	0.119	- .0015035	.0132268
c.timew1w3#c.invmillsmms	.0058616	.0037578				
timew1w3 zw1w3HCYTRAJ	-.0005134	.0006126	-0.84	0.402	- .0017141	.0006873
c.timew1w3#c.zw1w3HCYTRAJ	-.0957817	.0964429	-0.99	0.321	- .2848062	.0932429
Sex#c.zw1w3HCYTRAJ Men	-.007094	.0168573	-0.42	0.674	- .0401337	.0259457
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0281875	.1208295	0.23	0.816	- .208634	.265009
_cons	7.812753	.1057431	73.88	0.000	7.605501	8.020006

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0151139	.	.
sd(_cons)	1.73391	.	.
corr(timew1w3,_cons)	.9999905	.	.
sd(Residual)	1.189179	.	.

```

390 .
391 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4hobs==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Number of imputations = 5
Number of observations = 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( 15, .) = 12.58
Prob > F = 0.0000

```

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0054392	.0202311	0.27	0.788	-.034213 .0450913
w1Agecent48	-.0238923	.0061043	-3.91	0.000	-.0358566 -.0119281
c.timew1w3#c.w1Agecent48	-.0011874	.0011391	-1.04	0.297	-.0034199 .0010451
timew1w3	0	(omitted)			
Sex Men	-.0469119	.1154616	-0.41	0.685	-.2732124 .1793886
Sex#c.timew1w3 Men	-.0161939	.0216429	-0.75	0.454	-.0586132 .0262254
timew1w3	0	(omitted)			
Race AfrAm	-1.046777	.1139353	-9.19	0.000	-1.270086 -.8234681
Race#c.timew1w3 AfrAm	-.0126606	.0215243	-0.59	0.556	-.0548474 .0295263
timew1w3	0	(omitted)			
PovStat Below	-.5611017	.1178467	-4.76	0.000	-.792077 -.3301264
PovStat#c.timew1w3 Below	.0015469	.0215917	0.07	0.943	-.0407721 .0438659
timew1w3 invmillsmms	0	(omitted)			
	.0062268	.0037189	1.67	0.094	-.001062 .0135157
c.timew1w3#c.invmillsmms	-.0004866	.0006383	-0.76	0.446	-.0017376 .0007643
timew1w3 zw1w3HCYTRAJ	0	(omitted)			
	-.0415577	.0962077	-0.43	0.666	-.2301213 .1470059
c.timew1w3#c.zw1w3HCYTRAJ	.0115005	.0175855	0.65	0.513	-.0229664 .0459674
Sex#c.zw1w3HCYTRAJ Men	-.108679	.1201084	-0.90	0.366	-.3440871 .1267291
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	-.0121891	.0219677	-0.55	0.579	-.055245 .0308668
_cons	6.487872	.1046777	61.98	0.000	6.282708 6.693037

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0092685	.	.
sd(_cons)	1.665572	.	.
corr(timew1w3,_cons)	-.9999922	.	.
sd(Residual)	1.240352	.	.

392 .
 393 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
 > c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
 > if sample4iobs==1 || HNDID: timew1w3, cov(un)

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:

Average RVI = 0.0000
 Largest FMI = 0.0000
DF: min = 9.39e+63
 avg = 1.35e+67
 max = .

F(15, 4.2e+69) = 5.82
 Prob > F = 0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0197997	.0155851	-1.27	0.204	-.050346 .0107465
w1Agecent48	-.0062494	.0034726	-1.80	0.072	-.0130556 .0005569
c.timew1w3#c.w1Agecent48	-.0017985	.0008824	-2.04	0.042	-.0035279 -.0000691
timew1w3	0	(omitted)			
Sex					
Men	.1141056	.0656305	1.74	0.082	-.0145279 .242739
Sex#c.timew1w3	.0060914	.0166869	0.37	0.715	-.0266143 .0387971
Men					
timew1w3	0	(omitted)			
Race					
AfrAm	-.4053995	.0647475	-6.26	0.000	-.5323022 -.2784968
Race#c.timew1w3	.0178442	.0165804	1.08	0.282	-.0146528 .0503413
AfrAm					
timew1w3	0	(omitted)			
PovStat					
Below	-.0695141	.0672341	-1.03	0.301	-.2012906 .0622624
PovStat#c.timew1w3	-.0112824	.0167161	-0.67	0.500	-.0440453 .0214805
Below					
timew1w3	0	(omitted)			
invmillsmms	.0003259	.002143	0.15	0.879	-.0038744 .0045262
c.timew1w3#c.invmillsmms	-.0001435	.0004999	-0.29	0.774	-.0011233 .0008363
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.0621796	.0543254	-1.14	0.252	-.1686555 .0442963
c.timew1w3#c.zw1w3HCYTRAJ	-.0017532	.013542	-0.13	0.897	-.0282951 .0247887

Sex#c.zw1w3HCYTRAJ Men	.0115917	.0681916	0.17	0.865	-.1220613	.1452447
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	-.0104306	.0169191	-0.62	0.538	-.0435914	.0227302
_cons	9.024433	.0593581	152.03	0.000	8.908093	9.140773

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0723913	.0518844	.0177669	.2949581
sd(_cons)	.7156846	.0671673	.5954374	.8602155
corr(timew1w3,_cons)	-.2124656	.2259141	-.5911737	.243004
sd(Residual)	.948256	.0460665	.8621326	1.042983

394 .

395 . mi estimate: mixed LnTrailsAtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> 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
DF adjustment: Large sample	Average RVI	=	0.0000
	Largest FMI	=	0.0000
	DF:	min	= 1.29e+59
		avg	= 2.38e+66
		max	= .
Model F test: Equal FMI	F(15, 3.4e+69)	=	25.37
	Prob > F	=	0.0000

LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0011975	.0040601	0.29	0.768	-.0067602	.0091553
w1Agecent48	.0114424	.001056	10.84	0.000	.0093727	.0135122
c.timew1w3#c.w1Agecent48	.0006604	.0002315	2.85	0.004	.0002066	.0011142
timew1w3	0	(omitted)				
Sex						
Men	.0917814	.0199546	4.60	0.000	.0526711	.1308916
Sex#c.timew1w3						
Men	.0009002	.0043853	0.21	0.837	-.0076949	.0094952
timew1w3	0	(omitted)				
Race						
AfrAm	.1852792	.0196224	9.44	0.000	.14682	.2237383
Race#c.timew1w3						

AfrAm	- .0003506	.0043371	-0.08	0.936	- .0088511	.00815
timew1w3	0	(omitted)				
PovStat Below	.0889645	.0204192	4.36	0.000	.0489436	.1289854
PovStat#c.timew1w3 Below	.0045544	.0043881	1.04	0.299	- .0040461	.0131548
timew1w3 invmillsmms	0	(omitted)	.0002787	.0006376	0.44	0.662
c.timew1w3#c.invmillsmms	- .0001349	.0001285	-1.05	0.294	- .0003867	.0001169
timew1w3 zw1w3HCYTRAJ	0	(omitted)	.0343445	.0162788	2.11	0.035
c.timew1w3#c.zw1w3HCYTRAJ	- .0064913	.003495	-1.86	0.063	- .0133414	.0003588
Sex#c.zw1w3HCYTRAJ Men	- .004123	.0206074	-0.20	0.841	- .0445128	.0362667
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0089831	.0044139	2.04	0.042	.000332	.0176342
_cons	3.274552	.017941	182.52	0.000	3.239388	3.309716

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0246742	.0056843	.015709	.038756
sd(_cons)	.2649863	.0078692	.2500032	.2808673
sd(Residual)	.2360534	.0078292	.2211965	.2519081

396 .

397 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4kobs==1 || HNDID: timew1w3, cov(un)

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
DF adjustment: Large sample	Average RVI = 0.0000
	Largest FMI = 0.0000
	DF: min = 7.97e+63
	avg = 5.22e+64
	max = .
Model F test: Equal FMI	F(15, 1.5e+66) = 29.62
	Prob > F = 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0034677	.0060583	0.57	0.567	-.0084064 .0153418
w1Agecent48	.0183281	.0018415	9.95	0.000	.0147188 .0219374
c.timew1w3#c.w1Agecent48	.0005772	.0003495	1.65	0.099	-.0001079 .0012622
timew1w3	0	(omitted)			
Sex Men	.0595098	.0347801	1.71	0.087	-.008658 .1276775
Sex#c.timew1w3 Men	-.0036684	.0066172	-0.55	0.579	-.0166379 .0093011
timew1w3	0	(omitted)			
Race AfrAm	.3993082	.0342216	11.67	0.000	.332235 .4663814
Race#c.timew1w3 AfrAm	.00139	.0065391	0.21	0.832	-.0114263 .0142064
timew1w3	0	(omitted)			
PovStat Below	.2383456	.0355938	6.70	0.000	.168583 .3081082
PovStat#c.timew1w3 Below	.004435	.0066959	0.66	0.508	-.0086887 .0175587
timew1w3 invmillsmms	0	(omitted)			
invmillsmms	-.0025691	.0011096	-2.32	0.021	-.0047438 -.0003945
c.timew1w3#c.invmillsmms	-.0004686	.0004887	-0.96	0.338	-.0014265 .0004892
timew1w3 zw1w3HCYTRAJ	0	(omitted)			
zw1w3HCYTRAJ	-.0264004	.0283876	-0.93	0.352	-.082039 .0292383
c.timew1w3#c.zw1w3HCYTRAJ	.0061123	.0051999	1.18	0.240	-.0040794 .016304
Sex#c.zw1w3HCYTRAJ Men	.0891442	.0359882	2.48	0.013	.0186085 .1596798
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0009764	.0066313	0.15	0.883	-.0120207 .0139734
_cons	4.221897	.0313149	134.82	0.000	4.160521 4.283273

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0659586	.0117538	.0465144 .0935311
sd(_cons)	.5443535	.0201006	.506349 .5852105
corr(timew1w3,_cons)	-.4305367	.0468646	-.5177849 -.3344249
sd(Residual)	.2913916	.0278614	.2415958 .3514509

```

398 .
399 .
400 . save, replace
      file finaldata_imputed_FINAL.dta saved

401 .
402 .
403 . //MODEL 2: MODEL 1 + OTHER FACTORS + BODY MASS INDEX///
404 .
405 . 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##Sex ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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( 29,60504.0) = 35.17
Prob > F = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0882933	.0486327	1.82	0.070	-.0070468	.1836334
w1Agecent48	-.0176063	.0051609	-3.41	0.001	-.0277225	-.00749
c.timew1w3#c.w1Agecent48	-.0030711	.0011658	-2.63	0.008	-.0053563	-.0007859
timew1w3	0 (omitted)					
Sex						
Men	-.3449147	.0967994	-3.56	0.000	-.5346386	-.1551909
Sex#c.timew1w3						
Men	.0227082	.0220549	1.03	0.303	-.0205201	.0659364
timew1w3	0 (omitted)					
Race						
AfrAm	-.2265909	.0984241	-2.30	0.021	-.419508	-.0336739
Race#c.timew1w3						
AfrAm	-.0197928	.0226142	-0.88	0.381	-.064117	.0245314
timew1w3	0 (omitted)					
PovStat						
Below	-.0631905	.1006945	-0.63	0.530	-.2605482	.1341672
PovStat#c.timew1w3						
Below	-.0287484	.0225299	-1.28	0.202	-.0729061	.0154093
timew1w3	0 (omitted)					

w1edubr							
2	.505525	.2002304	2.52	0.012	.1130359	.898014	
3	.6854835	.2190934	3.13	0.002	.2559448	1.115022	
w1edubr#c.timew1w3							
2	-.0628027	.0461907	-1.36	0.174	-.1533483	.0277429	
3	-.0619485	.05024	-1.23	0.218	-.1604575	.0365605	
timew1w3	0 (omitted)						
w1WRATtotalcent42	.1466461	.0068578	21.38	0.000	.1332038	.1600885	
c.timew1w3#c.w1WRATtotalcent42	-.0078133	.0016968	-4.60	0.000	-.0111398	-.0044868	
timew1w3	0 (omitted)						
1.w1smoke	.0139649	.1084503	0.13	0.898	-.1991196	.2270494	
w1smoke#c.timew1w3							
1	-.050569	.0244481	-2.07	0.039	-.0984906	-.0026473	
timew1w3	0 (omitted)						
1.w1currdrugs	-.082784	.1403165	-0.59	0.557	-.3612616	.1956936	
w1currdrugs#c.timew1w3							
1	.0175734	.0303264	0.58	0.563	-.0420568	.0772035	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	-.0038914	.0048871	-0.80	0.430	-.0137017	.0059188	
c.timew1w3#c.w1hei2010_total_scorecent43	.0004847	.0011868	0.41	0.685	-.0018976	.0028671	
timew1w3	0 (omitted)						
w1BMIcon30	-.0054214	.0064872	-0.84	0.403	-.0181366	.0072937	
c.timew1w3#c.w1BMIcon30	-.0002876	.0014497	-0.20	0.843	-.003129	.0025538	
timew1w3	0 (omitted)						
invmillsmms	.0077049	.0029961	2.57	0.010	.0018327	.0135771	
c.timew1w3#c.invmillsmms	-.0018676	.0006188	-3.02	0.003	-.0030805	-.0006548	
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	-.0228599	.0786208	-0.29	0.771	-.1769539	.1312341	
c.timew1w3#c.zw1w3HCYTRAJ	.0034514	.0172606	0.20	0.842	-.0303787	.0372816	
Sex#c.zw1w3HCYTRAJ							
Men	.0224928	.0986776	0.23	0.820	-.1709119	.2158974	
Sex#c.timew1w3#c.zw1w3HCYTRAJ							
Men	-.0005342	.0219435	-0.02	0.981	-.0435427	.0424744	
_cons	27.47406	.2088935	131.52	0.000	27.0646	27.88352	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0950172	.	.
sd(_cons)	1.208982	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.185226	.	.

406 .
 407 .
 408 . 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##Sex ///
 > if sample4aobs==1 || HNDID: timew1w3, cov(un)

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(29,68572.3) = 31.92	
Prob > F = 0.0000	

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.3655658	.3929955	0.93	0.352	-.4047642 1.135896
w1Agecent48	-.1539507	.0391268	-3.93	0.000	-.2306467 -.0772547
c.timew1w3#c.w1Agecent48	-.024084	.0094486	-2.55	0.011	-.0426057 -.0055623
timew1w3	0 (omitted)				
Sex					
Men	-1.917193	.7334997	-2.61	0.009	-3.354831 -.4795557
Sex#c.timew1w3					
Men	.1169892	.1788231	0.65	0.513	-.2335137 .467492
timew1w3	0 (omitted)				
Race					
AfrAm	-3.34927	.7441037	-4.50	0.000	-4.807717 -1.890824
Race#c.timew1w3					
AfrAm	.0109043	.1831673	0.06	0.953	-.3481021 .3699106
timew1w3	0 (omitted)				
PovStat					
Below	-.6853389	.7635089	-0.90	0.369	-2.181792 .8111139

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.38853	.	.
sd(_cons)	8.279555	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	9.812515	.	.

409 .

410 .

411 .

412 . 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##Sex ///
 > 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 = 0.0400
 Largest FMI = 0.4204
 DF adjustment: Large sample
 DF: min = 27.70
 avg = 796,564.54
 max = 8751306.71
 Model F test: Equal FMI
 F(29, 58797.0) = 54.32
 Prob > F = 0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.163349	.1543317	-7.54	0.000	-1.465841	-.860856
w1Agecent48	-.1478972	.0186097	-7.95	0.000	-.184374	-.1114205
c.timew1w3#c.w1Agecent48	-.0066541	.0039802	-1.67	0.095	-.0144553	.0011471
timew1w3	0 (omitted)					
Sex						
Men	-2.195367	.3497236	-6.28	0.000	-2.880814	-1.509921
Sex#c.timew1w3						
Men	-.1783195	.0753623	-2.37	0.018	-.3260277	-.0306113
timew1w3	0 (omitted)					
Race						
AfrAm	-1.968341	.3572619	-5.51	0.000	-2.668627	-1.268056
Race#c.timew1w3						
AfrAm	.091297	.0775121	1.18	0.239	-.0606527	.2432467
timew1w3	0 (omitted)					
PovStat						
Below	-.3718405	.3618594	-1.03	0.304	-1.081078	.3373969

PovStat#c.timew1w3 Below		- .0477188	.0761207	-0.63	0.531	-.1969141	.1014765
	timew1w3		0 (omitted)				
w1edubr 2 3		-.3964644	.7070674	-0.56	0.575	-1.783087	.9901584
		1.885207	.7713177	2.44	0.015	.3727036	3.397711
w1edubr#c.timew1w3 2 3		.0944171	.1451676	0.65	0.515	-.1901325	.3789667
		-.0545974	.1596992	-0.34	0.732	-.3676157	.2584208
timew1w3 w1WRATtotalcent42		0 (omitted)					
		.2376589	.0243501	9.76	0.000	.1899326	.2853852
c.timew1w3#c.w1WRATtotalcent42		-.0048743	.0051625	-0.94	0.345	-.014993	.0052445
timew1w3 1.w1smoke		0 (omitted)					
		-.0476632	.3818135	-0.12	0.901	-.7984834	.703157
w1smoke#c.timew1w3 1		-.040765	.0888481	-0.46	0.647	-.2161387	.1346086
timew1w3 1.w1currdrugs		0 (omitted)					
		-.5401362	.4482611	-1.20	0.228	-1.419173	.3389002
w1currdrugs#c.timew1w3 1		.0956775	.1003585	0.95	0.341	-.1013846	.2927396
timew1w3 w1hei2010_total_scorecent43		0 (omitted)					
		.0277661	.0187474	1.48	0.150	-.0106548	.066187
c.timew1w3#c.w1hei2010_total_scorecent43		-.00295	.0039444	-0.75	0.456	-.0107798	.0048798
timew1w3 w1BMIcon30		0 (omitted)					
		-.0037232	.0232261	-0.16	0.873	-.0492463	.0417998
c.timew1w3#c.w1BMIcon30		-.0027502	.0049204	-0.56	0.576	-.012394	.0068937
timew1w3 invmillsmms		0 (omitted)					
		.0163012	.0103197	1.58	0.114	-.0039249	.0365274
c.timew1w3#c.invmillsmms		-.0003741	.0019996	-0.19	0.852	-.0042933	.0035451
timew1w3 zw1w3HCYTRAJ		0 (omitted)					
		.776755	.2817421	2.76	0.006	.2245488	1.328961
c.timew1w3#c.zw1w3HCYTRAJ		-.0806491	.0595665	-1.35	0.176	-.1973974	.0360992
Sex#c.zw1w3HCYTRAJ Men		-.4758244	.3558356	-1.34	0.181	-1.17325	.2216008
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men		.044235	.0751686	0.59	0.556	-.1030928	.1915629
_cons		26.62664	.7381462	36.07	0.000	25.17962	28.07366

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3716453	.0966487	.2232308	.6187328
sd(_cons)	4.388663	.1302794	4.140605	4.651581
sd(Residual)	3.651834	.1308069	3.404247	3.917428

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416 . 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##Sex ///
 > 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 =	0.0691
DF adjustment: Large sample	Largest FMI =	0.3377
	DF: min =	42.40
	avg =	612,918.74
	max =	6843915.66
Model F test: Equal FMI	F(29, 20789.9) =	33.80
	Prob > F =	0.0000

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.3474828	.0745705	-4.66	0.000	-.4936423 -.2013233
		-.0794586	.0089141	-8.91	0.000	-.0969301 -.061987
c.timew1w3#c.w1Agecent48		-.0035579	.0019626	-1.81	0.070	-.0074048 .000289
timew1w3		0 (omitted)				
Sex						
Men		-.9595339	.1679595	-5.71	0.000	-1.28873 -.6303382
Sex#c.timew1w3						
Men		-.0453072	.0367319	-1.23	0.217	-.1173017 .0266873
timew1w3		0 (omitted)				
Race						
AfrAm		-1.19665	.1712641	-6.99	0.000	-1.53237 -.8609306
Race#c.timew1w3						
AfrAm		.021277	.0375698	0.57	0.571	-.052364 .0949181
timew1w3		0 (omitted)				
PovStat						
Below		-.0856857	.1743085	-0.49	0.623	-.4273476 .2559762

PovStat#c.timew1w3						
Below	- .0335281	.0369893	-0.91	0.365	-.1060265	.0389703
timew1w3	0	(omitted)				
w1edubr						
2	-.1645733	.3393262	-0.49	0.628	-.829872	.5007254
3	.5371796	.3684144	1.46	0.145	-.1849896	1.259349
w1edubr#c.timew1w3						
2	-.0028203	.0701273	-0.04	0.968	-.1402816	.134641
3	.0068734	.0772709	0.09	0.929	-.1445801	.1583269
timew1w3	0	(omitted)				
w1WRATtotalcent42	.1003923	.0117915	8.51	0.000	.0772779	.1235067
c.timew1w3#c.w1WRATtotalcent42	-.0040518	.0024962	-1.62	0.105	-.0089443	.0008407
timew1w3	0	(omitted)				
1.w1smoke	-.0160094	.1977992	-0.08	0.936	-.4093589	.3773402
w1smoke#c.timew1w3						
1	-.0247233	.0457064	-0.54	0.590	-.1158319	.0663853
timew1w3	0	(omitted)				
1.w1currdrugs	-.2446712	.2304988	-1.06	0.290	-.6996456	.2103032
w1currdrugs#c.timew1w3						
1	-.0258259	.0518635	-0.50	0.619	-.128551	.0768993
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	.0090604	.0086502	1.05	0.301	-.0083916	.0265124
c.timew1w3#c.w1hei2010_total_scorecent43	-.0003529	.0019634	-0.18	0.858	-.0042602	.0035543
timew1w3	0	(omitted)				
w1BMIcon30	.0194423	.0111877	1.74	0.082	-.0024865	.041371
c.timew1w3#c.w1BMIcon30	-.001899	.0024229	-0.78	0.433	-.0066482	.0028502
timew1w3	0	(omitted)				
invmillsmms	.0072581	.0048944	1.48	0.138	-.0023347	.0168509
c.timew1w3#c.invmillsmms	-.0004499	.0009431	-0.48	0.633	-.0022983	.0013984
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	.4840388	.1355873	3.57	0.000	.2182917	.749786
c.timew1w3#c.zw1w3HCYTRAJ	-.0468742	.029617	-1.58	0.113	-.1049225	.0111741
Sex#c.zw1w3HCYTRAJ						
Men	-.272405	.171796	-1.59	0.113	-.609119	.0643091
Sex#c.timew1w3#c.zw1w3HCYTRAJ						
Men	.0206548	.0370909	0.56	0.578	-.0520422	.0933517
_cons	8.447007	.3551392	23.79	0.000	7.750846	9.143169

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0804635	.1020296	.0067019	.9660507
sd(_cons)	2.000346	.0636123	1.879474	2.128993
sd(Residual)	1.802691	.0614118	1.686256	1.927165

417 .
 418 .
 419 .
 420 . 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##Sex ///
 > if sample4dobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0354
 Largest FMI = 0.2988
 DF: min = 53.62
 avg = 1999471.42
 max = 3.30e+07
 F(29, 70646.3) = 29.27
 Prob > F = 0.0000

	BVRTot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4120283	.1127322	3.65	0.000	.1910757	.6329808
w1Agecent48	.1215027	.0134348	9.04	0.000	.0951696	.1478358
c.timew1w3#c.w1Agecent48	.0087773	.0028219	3.11	0.002	.0032462	.0143084
timew1w3	0 (omitted)					
Sex						
Men	-1.043777	.2531038	-4.12	0.000	-1.539858	-.5476951
Sex#c.timew1w3						
Men	.0569693	.0528741	1.08	0.281	-.0466626	.1606012
timew1w3	0 (omitted)					
Race						
AfrAm	.5025094	.2549787	1.97	0.049	.0027581	1.002261
Race#c.timew1w3						
AfrAm	.1373858	.0539255	2.55	0.011	.0316922	.2430794
timew1w3	0 (omitted)					
PovStat						
Below	.3515761	.2634871	1.33	0.182	-.1648525	.8680048

PovStat#c.timew1w3						
Below	.0515157	.0544704	0.95	0.344	-.0552443	.1582758
timew1w3	0 (omitted)					
w1edubr						
2	-.6596034	.5208492	-1.27	0.205	-1.680634	.3614277
3	-1.598584	.5706729	-2.80	0.005	-2.717505	-.4796624
w1edubr#c.timew1w3						
2	-.1551539	.1072515	-1.45	0.148	-.3653658	.0550581
3	-.1221691	.1169112	-1.04	0.296	-.351312	.1069739
timew1w3	0 (omitted)					
w1WRATtotalcent42	-.1602357	.0179538	-8.92	0.000	-.1954367	-.1250347
c.timew1w3#c.w1WRATtotalcent42	-.0039406	.0037144	-1.06	0.289	-.0112209	.0033396
timew1w3	0 (omitted)					
1.w1smoke	.4163674	.2799333	1.49	0.138	-.1340044	.9667392
w1smoke#c.timew1w3						
1	-.0414504	.0591789	-0.70	0.484	-.1574512	.0745504
timew1w3	0 (omitted)					
1.w1currdrugs	-.2750015	.3802387	-0.72	0.473	-1.037457	.4874542
w1currdrugs#c.timew1w3						
1	.1291031	.0727688	1.77	0.076	-.0137385	.2719447
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	-.0065276	.0114738	-0.57	0.570	-.0292483	.0161931
c.timew1w3#c.w1hei2010_total_scorecent43	-.0035857	.0026748	-1.34	0.182	-.008874	.0017026
timew1w3	0 (omitted)					
w1BMIcon30	.0105927	.0168559	0.63	0.530	-.0224449	.0436304
c.timew1w3#c.w1BMIcon30	-.0044475	.0035444	-1.25	0.210	-.0113944	.0024995
timew1w3	0 (omitted)					
invmillsmms	-.0162547	.0078565	-2.07	0.039	-.0316532	-.0008562
c.timew1w3#c.invmillsmms	.0000812	.0015458	0.05	0.958	-.0029484	.0031109
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	-.059231	.2040997	-0.29	0.772	-.4592593	.3407973
c.timew1w3#c.zw1w3HCYTRAJ	.0229857	.041989	0.55	0.584	-.0593114	.1052828
Sex#c.zw1w3HCYTRAJ						
Men	.0132519	.2564666	0.05	0.959	-.4894134	.5159172
Sex#c.timew1w3#c.zw1w3HCYTRAJ						
Men	.0540609	.0527921	1.02	0.306	-.0494098	.1575317
_cons	7.358022	.5454896	13.49	0.000	6.28863	8.427415

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.6630345	.0598878	.5554549	.7914498
sd(_cons)	3.954503	.1366079	3.695615	4.231526
corr(timew1w3,_cons)	-.4721979	.0341382	-.5363409	-.4026316
sd(Residual)	1.959415	.2006167	1.603145	2.394859

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421 .
422 .
423 . 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##Sex ///
> if sample4eobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0207
Largest FMI = 0.2024
DF: min = 112.71
avg = 1.39e+07
max = 3.49e+08
F(29, 197772.0) = 13.97
Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.0394546	.0575305	-0.69	0.493	-.152219	.0733097
w1Agecent48	-.0152809	.0062778	-2.43	0.015	-.0275853	-.0029765
c.timew1w3#c.w1Agecent48	-.002858	.001414	-2.02	0.043	-.0056294	-.0000865
timew1w3	0 (omitted)					
Sex						
Men	-.2896429	.1195249	-2.42	0.015	-.5239081	-.0553776
Sex#c.timew1w3						
Men	.0017401	.0268215	0.06	0.948	-.0508292	.0543093
timew1w3	0 (omitted)					
Race						
AfrAm	-.672218	.1210561	-5.55	0.000	-.9094839	-.4349521
Race#c.timew1w3						
AfrAm	.0416284	.0273816	1.52	0.128	-.0120386	.0952953
timew1w3	0 (omitted)					
PovStat						
Below	-.1173482	.1237669	-0.95	0.343	-.3599273	.1252309

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.12398	.0930843	.0284621	.5400518
sd(_cons)	1.422103	.1080208	1.225392	1.650392
corr(timew1w3,_cons)	-.091822	.2695409	-.554506	.4142261
sd(Residual)	1.351775	.0981424	1.172478	1.558489

424 .
425 . 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##Sex ///
> if sample4fobs==1 || HNDID: timew1w3, cov(un)

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	=	0.0525
Largest FMI	=	0.2942

DF adjustment: Large sample

DF:	min	=	55.22
	avg	=	8599404.56
	max	=	2.82e+08

Model F test: Equal FMI

F(29, 32638.4)	=	12.90
Prob > F	=	0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0239353	.1159653	-0.21	0.836	-.2513204 .2034499
w1Agecent48	-.0829474	.0149499	-5.55	0.000	-.1122498 -.053645
c.timew1w3#c.w1Agecent48	-.0023664	.0028607	-0.83	0.408	-.0079733 .0032406
timew1w3	0	(omitted)			
Sex					
Men	1.283691	.2813564	4.56	0.000	.7322397 1.835143
Sex#c.timew1w3					
Men	-.0048976	.0540168	-0.09	0.928	-.1107688 .1009736
timew1w3	0	(omitted)			
Race					
AfrAm	-1.329729	.2855937	-4.66	0.000	-1.889487 -.7699718
Race#c.timew1w3					
AfrAm	-.0279276	.055432	-0.50	0.614	-.1365758 .0807207
timew1w3	0	(omitted)			
PovStat					
Below	-.5791798	.294854	-1.96	0.050	-1.1571 -.0012597
PovStat#c.timew1w3					

	Below	.0211522	.0556067	0.38	0.704	-.0878361	.1301406
	timew1w3	0 (omitted)					
	w1edubr						
	2	-.3496801	.5783625	-0.60	0.545	-1.483307	.7839468
	3	.9272505	.6293281	1.47	0.141	-.3062766	2.160778
	w1edubr#c.timew1w3						
	2	.0933957	.1105964	0.84	0.399	-.1235277	.310319
	3	.0539574	.1215224	0.44	0.657	-.1844189	.2923336
	timew1w3	0 (omitted)					
	w1WRATtotalcent42	.1625526	.0195986	8.29	0.000	.1241396	.2009655
	c.timew1w3#c.w1WRATtotalcent42	.002251	.0037685	0.60	0.550	-.0051355	.0096374
	timew1w3	0 (omitted)					
	1.w1smoke	-.5251868	.3327035	-1.58	0.119	-1.189057	.1386835
	w1smoke#c.timew1w3						
	1	.0323164	.0623919	0.52	0.605	-.0902189	.1548517
	timew1w3	0 (omitted)					
	1.w1currdrugs	.288939	.3912703	0.74	0.462	-.4864671	1.064345
	w1currdrugs#c.timew1w3						
	1	-.0234913	.071892	-0.33	0.744	-.1644487	.117466
	timew1w3	0 (omitted)					
	w1hei2010_total_scorecent43	.0258245	.0131724	1.96	0.055	-.0005713	.0522202
	c.timew1w3#c.w1hei2010_total_scorecent43	-.0029313	.0025525	-1.15	0.251	-.007937	.0020744
	timew1w3	0 (omitted)					
	w1BMIcon30	.0173122	.0191063	0.91	0.365	-.0201542	.0547786
	c.timew1w3#c.w1BMIcon30	.002527	.0036006	0.70	0.483	-.0045304	.0095844
	timew1w3	0 (omitted)					
	invmillsmms	.0087601	.0089255	0.98	0.326	-.0087335	.0262537
	c.timew1w3#c.invmillsmms						
		-.0013833	.0015855	-0.87	0.383	-.0044908	.0017241
	timew1w3	0 (omitted)					
	zw1w3HCYTRAJ	-.231434	.2277965	-1.02	0.310	-.6779101	.2150421
	c.timew1w3#c.zw1w3HCYTRAJ	-.0214329	.0428263	-0.50	0.617	-.1053711	.0625053
	Sex#c.zw1w3HCYTRAJ						
	Men	.2923452	.2866456	1.02	0.308	-.2694725	.854163
	Sex#c.timew1w3#c.zw1w3HCYTRAJ						
	Men	-.0207524	.053894	-0.39	0.700	-.126383	.0848782
	_cons	19.3386	.6097215	31.72	0.000	18.14321	20.534

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.257952	.1753106	.0680823	.9773354
sd(_cons)	3.978313	.1685368	3.661328	4.322741
corr(timew1w3,_cons)	-.171925	.1392282	-.4258731	.1071326
sd(Residual)	2.924729	.1736308	2.603466	3.285635

426 .
427 . 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##Sex ///
> if sample4gobs==1 || HNDID: timew1w3, cov(un)

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	=	.
Largest FMI	=	.

DF adjustment: Large sample

DF:	min	=	0.00
	avg	=	.
	max	=	.

Model F test: Equal FMI

F(29, 20474.9)	=	16.77
Prob > F	=	0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0382924	.0451282	0.85	0.396	-.0501592	.1267441
w1Agecent48	-.0078933	.0057166	-1.38	0.167	-.0190979	.0033113
c.timew1w3#c.w1Agecent48	-.0034814	.0011293	-3.08	0.002	-.0056949	-.0012679
timew1w3	0	(omitted)				
Sex						
Men	.2056981	.1082308	1.90	0.057	-.0064347	.417831
Sex#c.timew1w3						
Men	-.0355599	.0212976	-1.67	0.095	-.0773027	.0061829
timew1w3	0	(omitted)				
Race						
AfrAm	-.2887904	.1104409	-2.61	0.009	-.5052928	-.072288
Race#c.timew1w3						
AfrAm	-.0111906	.0217248	-0.52	0.606	-.0537708	.0313896
timew1w3	0	(omitted)				
PovStat						
Below	-.1198241	.113275	-1.06	0.290	-.3418634	.1022153
PovStat#c.timew1w3						

	Below	- .0216567	.0218688	-0.99	0.322	-.0645195	.0212062
	timew1w3	0	(omitted)				
	w1edubr						
	2	-.0991764	.2227169	-0.45	0.656	-.5357046	.3373519
	3	.2035357	.2423978	0.84	0.401	-.2715879	.6786594
	w1edubr#c.timew1w3						
	2	.0010516	.0424951	0.02	0.980	-.0822374	.0843407
	3	-.0203819	.0466745	-0.44	0.662	-.1118651	.0711013
	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1132856	.0075839	14.94	0.000	.09842	.1281511
	c.timew1w3#c.w1WRATtotalcent42	.0001059	.0014879	0.07	0.943	-.0028104	.0030222
	timew1w3	0	(omitted)				
	1.w1smoke	.1750344	.1260619	1.39	0.169	-.0758185	.4258872
	w1smoke#c.timew1w3						
	1	-.0146432	.0245055	-0.60	0.550	-.062759	.0334727
	timew1w3	0	(omitted)				
	1.w1currdrugs	.3730156	.1764036	2.11	0.045	.0084081	.7376231
	w1currdrugs#c.timew1w3						
	1	-.0085084	.0297302	-0.29	0.775	-.0669952	.0499785
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0010475	.0047405	0.22	0.825	-.0083084	.0104034
	c.timew1w3#c.w1hei2010_total_scorecent43	.0001783	.0010745	0.17	0.868	-.001944	.0023006
	timew1w3	0	(omitted)				
	w1BMIcon30	-.0109952	.0074138	-1.48	0.138	-.0255425	.0035521
	c.timew1w3#c.w1BMIcon30	-.0014616	.0014247	-1.03	0.305	-.0042543	.0013312
	timew1w3	0	(omitted)				
	invmillsmms	.0056172	.0034103	1.65	0.100	-.0010669	.0123013
	c.timew1w3#c.invmillsmms						
		-.000539	.0006152	-0.88	0.381	-.0017448	.0006669
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.1174751	.0875121	-1.34	0.179	-.2889961	.0540458
	c.timew1w3#c.zw1w3HCYTRAJ	-.0049132	.0169698	-0.29	0.772	-.0381737	.0283473
	Sex#c.zw1w3HCYTRAJ						
	Men	.1513284	.109886	1.38	0.168	-.0640447	.3667015
	Sex#c.timew1w3#c.zw1w3HCYTRAJ						
	Men	-.0142308	.0212711	-0.67	0.503	-.0559216	.02746
	_cons	7.186894	.2335816	30.77	0.000	6.729051	7.644737

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0176448	.	.
sd(_cons)	1.475531	.	.
corr(timew1w3,_cons)	.9999964	.	.
sd(Residual)	1.191259	.	.

```

428 .
429 . 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.w1BMICent
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4hobs==1 || HNDID: timew1w3, cov(un)
Hessian is not negative semidefinite
an error occurred when mi estimate executed mixed on m=1
r(430);

end of do-file

r(430);

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

431 . 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.w1BMICent
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> 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( 29,35408.8) = 23.88
Prob > F = 0.0000

```

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0303432	.0472322	-0.64	0.521	-.1229331 .0622467
w1Agecent48	-.0165301	.00556	-2.97	0.003	-.0274284 -.0056317
c.timew1w3#c.w1Agecent48	-.0008787	.0011688	-0.75	0.452	-.0031696 .0014121
timew1w3	0 (omitted)				
Sex					
Men	-.025667	.1049209	-0.24	0.807	-.2313128 .1799788
Sex#c.timew1w3					
Men	-.0250214	.02215	-1.13	0.259	-.068435 .0183923

	timew1w3	0	(omitted)				
	Race AfrAm	-.562305	.1058952	-5.31	0.000	-.7698588	-.3547513
	Race#c.timew1w3 AfrAm	-.0212732	.0225916	-0.94	0.346	-.0655528	.0230064
	timew1w3	0	(omitted)				
	PovStat Below	-.1213893	.1094441	-1.11	0.267	-.3359079	.0931293
	PovStat#c.timew1w3 Below	-.0011691	.0226421	-0.05	0.959	-.0455468	.0432087
	timew1w3	0	(omitted)				
	w1edubr 2	-.2182771	.2155604	-1.01	0.311	-.6407764	.2042221
	3	.1326689	.2350627	0.56	0.572	-.3280716	.5934094
	w1edubr#c.timew1w3 2	.0552917	.0441289	1.25	0.210	-.0311999	.1417832
	3	.0259652	.0483594	0.54	0.591	-.0688183	.1207487
	timew1w3 w1WRATtotalcent42	0	(omitted)				
		.1235854	.0073269	16.87	0.000	.1092249	.137946
	c.timew1w3#c.w1WRATtotalcent42	-.0018197	.0015549	-1.17	0.242	-.0048674	.001228
	timew1w3 1.w1smoke	0	(omitted)				
		-.0531683	.1255172	-0.42	0.673	-.3034268	.1970901
	w1smoke#c.timew1w3 1	.0031436	.0279237	0.11	0.911	-.0525144	.0588017
	timew1w3 1.w1currrdrugs	0	(omitted)				
		.1215751	.1440107	0.84	0.400	-.1624295	.4055797
	w1currrdrugs#c.timew1w3 1	.020418	.0300771	0.68	0.497	-.0386088	.0794448
	timew1w3 w1hei2010_total_scorecent43	0	(omitted)				
		-.0007101	.00513	-0.14	0.890	-.0110197	.0095994
	c.timew1w3#c.w1hei2010_total_scorecent43	.0011347	.0011795	0.96	0.340	-.0012233	.0034928
	timew1w3 w1BMIconcent30	0	(omitted)				
		-.0060375	.007105	-0.85	0.396	-.0199691	.0078941
	c.timew1w3#c.w1BMIconcent30	-.0025776	.0014843	-1.74	0.083	-.0054874	.0003323
	timew1w3 invmillsmms	0	(omitted)				
		.0052769	.0032956	1.60	0.109	-.0011823	.0117362
	c.timew1w3#c.invmillsmms	-.0004233	.0006375	-0.66	0.507	-.0016728	.0008263
	timew1w3 zw1w3HCYTRAJ	0	(omitted)				
		-.06094	.0854287	-0.71	0.476	-.2283774	.1064975
	c.timew1w3#c.zw1w3HCYTRAJ	.014588	.0175765	0.83	0.407	-.0198612	.0490373

Sex#c.zw1w3HCYTRAJ Men	.0206357	.106873	0.19	0.847	-.1888322	.2301037
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	-.0179989	.0220335	-0.82	0.414	-.0611838	.025186
_cons	6.000276	.2283147	26.28	0.000	5.55266	6.447892

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	8.58e-07
sd(_cons)	1.347454	.0391207	1.27292	1.426353	
sd(Residual)	1.237635	.0247638	1.190038	1.287135	

432 .
433 . 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.w1BMIcon
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4iobs==1 || HNDID: timew1w3, cov(un)

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	=	0.0324
	Largest FMI	=	0.1729
	DF: min	=	152.14
	avg	=	7.22e+07
	max	=	2.41e+09
Model F test: Equal FMI	F(29,82724.2)	=	7.51
	Prob > F	=	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.061602	.0365587	-1.69	0.092	-.1332677 .0100638
w1Agecent48	-.0028615	.0034563	-0.83	0.408	-.0096358 .0039127
c.timew1w3#c.w1Agecent48	-.0021883	.0009028	-2.42	0.015	-.0039577 -.0004188
timew1w3	0 (omitted)				
Sex					
Men	.098242	.0652422	1.51	0.132	-.0296304 .2261145
Sex#c.timew1w3					
Men	.0108781	.017072	0.64	0.524	-.0225824 .0443385
timew1w3	0 (omitted)				
Race					
AfrAm	-.3102286	.0659791	-4.70	0.000	-.4395453 -.1809119
Race#c.timew1w3					

	AfrAm	.0166964	.0173598	0.96	0.336	-.0173282	.0507211
	timew1w3	0 (omitted)					
	PovStat Below	.0552314	.0683537	0.81	0.419	-.07874	.1892028
	PovStat#c.timew1w3 Below	-.0051395	.0174979	-0.29	0.769	-.0394349	.0291558
	timew1w3	0 (omitted)					
	w1edubr 2 3	-.0230279 .1669901	.1374575 .1491687	-0.17 1.12	0.867 0.263	-.292514 -.125429	.2464582 .4594092
	w1edubr#c.timew1w3 2 3	.0434943 .0574456	.0346763 .0379736	1.25 1.51	0.210 0.130	-.024479 -.0169918	.1114675 .1318829
	timew1w3 w1WRATtotalcent42	0 (omitted) .0291145		6.32	0.000	.0200799	.0381492
	c.timew1w3#c.w1WRATtotalcent42	-.0012143	.0012034	-1.01	0.313	-.0035736	.001145
	timew1w3 1.w1smoke	0 (omitted) -.0293432		-0.39	0.699	-.1786649	.1199785
	w1smoke#c.timew1w3 1	.0095101	.0200431	0.47	0.636	-.0299587	.0489788
	timew1w3 1.w1currdrugs	0 (omitted) .3014708		3.22	0.002	.1167633	.4861783
	w1currdrugs#c.timew1w3 1	-.0599668	.0228105	-2.63	0.009	-.1047034	-.0152302
	timew1w3 w1hei2010_total_scorecent43	0 (omitted) .0024573		0.81	0.416	-.0034779	.0083924
	c.timew1w3#c.w1hei2010_total_scorecent43	.0004917	.0008356	0.59	0.557	-.0011543	.0021377
	timew1w3 w1BMIcon30	0 (omitted) -.003051		-0.70	0.487	-.0116504	.0055484
	c.timew1w3#c.w1BMIcon30	-.000106	.001136	-0.09	0.926	-.0023325	.0021205
	timew1w3 invmillsmms	0 (omitted) .0004811		0.23	0.817	-.0036044	.0045666
	c.timew1w3#c.invmillsmms	-.0002298	.0004991	-0.46	0.645	-.0012081	.0007485
	timew1w3 zw1w3HCYTRAJ	0 (omitted) -.0665899		-1.26	0.208	-.1702164	.0370366
	c.timew1w3#c.zw1w3HCYTRAJ	-.0015858	.0135363	-0.12	0.907	-.0281164	.0249449
	Sex#c.zw1w3HCYTRAJ Men	.0474305	.0665177	0.71	0.476	-.0829418	.1778028
	Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	-.0126275	.0169613	-0.74	0.457	-.0458711	.020616

	<u>_cons</u>	8.810395	.143276	61.49	0.000	8.529511	9.091278
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0601953	.0619633	.0080049	.4526545
sd(_cons)	.6448031	.0731981	.5161768	.8054818
corr(timew1w3,_cons)	-.1628945	.3304396	-.6802952	.4628607
sd(Residual)	.9545201	.0455352	.8693179	1.048073

434 .
435 . 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.w1BMIcon
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> 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	=	0.0314
Largest FMI	=	0.3102
DF adjustment: Large sample	DF:	min = 49.92 avg = 3.70e+07 max = 1.04e+09
Model F test: Equal FMI	F(29, 91616.2)	= 16.33 Prob > F = 0.0000

	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0123575	.0096431	1.28	0.200	-.0065457 .0312608
w1Agecent48	.0110935	.0010634	10.43	0.000	.0090092 .0131778
c.timew1w3#c.w1Agecent48	.0005969	.0002373	2.51	0.012	.0001317 .001062
timew1w3	0 (omitted)				
Sex					
Men	.0914266	.0200789	4.55	0.000	.0520728 .1307805
Sex#c.timew1w3					
Men	.0006228	.0044842	0.14	0.890	-.0081661 .0094118
timew1w3	0 (omitted)				
Race					
AfrAm	.1536502	.0202614	7.58	0.000	.1139385 .193362
Race#c.timew1w3					
AfrAm	-.001929	.004532	-0.43	0.670	-.0108115 .0069535
timew1w3	0 (omitted)				
PovStat					

	Below	.0606112	.020978	2.89	0.004	.0194951	.1017273
PovStat#c.timew1w3							
Below		.0013863	.0045816	0.30	0.762	-.0075935	.010366
timew1w3		0 (omitted)					
w1edubr							
2		-.0601582	.042564	-1.41	0.158	-.1436185	.0233022
3		-.0471479	.0462828	-1.02	0.308	-.1379127	.0436169
w1edubr#c.timew1w3							
2		-.0079301	.0091589	-0.87	0.387	-.0258859	.0100258
3		-.0124939	.0100224	-1.25	0.213	-.0321436	.0071559
timew1w3		0 (omitted)					
w1WRATtotalcent42		-.008111	.0014311	-5.67	0.000	-.010916	-.005306
c.timew1w3#c.w1WRATtotalcent42		-.0004439	.0003166	-1.40	0.161	-.0010645	.0001768
timew1w3		0 (omitted)					
1.w1smoke		.0046134	.0232579	0.20	0.843	-.0413384	.0505653
w1smoke#c.timew1w3							
1		.0029013	.0050672	0.57	0.567	-.0070354	.0128381
timew1w3		0 (omitted)					
1.w1currdrugs		.0509172	.0272708	1.87	0.063	-.0027271	.1045616
w1currdrugs#c.timew1w3							
1		-.0038037	.0060624	-0.63	0.531	-.0156991	.0080917
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		.0000152	.0009965	0.02	0.988	-.0019865	.0020168
c.timew1w3#c.w1hei2010_total_scorecent43		.000096	.0002276	0.42	0.674	-.0003542	.0005462
timew1w3		0 (omitted)					
w1BMIcon30		.0024089	.001344	1.79	0.073	-.0002255	.0050432
c.timew1w3#c.w1BMIcon30		-.0002297	.0002952	-0.78	0.436	-.0008083	.0003488
timew1w3		0 (omitted)					
invmillsmms		.0003737	.0006278	0.60	0.552	-.0008568	.0016043
c.timew1w3#c.invmillsmms		-.0001303	.0001282	-1.02	0.309	-.0003815	.0001209
timew1w3		0 (omitted)					
zw1w3HCYTRAJ		.0351639	.0160546	2.19	0.029	.0036975	.0666302
c.timew1w3#c.zw1w3HCYTRAJ		-.0061534	.003494	-1.76	0.078	-.0130015	.0006948
Sex#c.zw1w3HCYTRAJ							
Men		-.0088695	.0203527	-0.44	0.663	-.04876	.031021
Sex#c.timew1w3#c.zw1w3HCYTRAJ							
Men		.0078881	.0044246	1.78	0.075	-.0007839	.0165601
_cons		3.35174	.0443893	75.51	0.000	3.264707	3.438774

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0221843	.0060609	.0129865	.0378966
sd(_cons)	.2547057	.0077834	.2398985	.2704269
sd(Residual)	.2376179	.0076379	.2231096	.2530695

436 .
437 . 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
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4kobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0466
Largest FMI = 0.2638
DF: min = 68.03
avg = 3340603.96
max = 5.29e+07

F(29, 40619.5) = 26.42
Prob > F = 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.010848	.0147702	0.73	0.463	-.0181073	.0398033
w1Agecent48	.0163802	.0017694	9.26	0.000	.0129122	.0198482
c.timew1w3#c.w1Agecent48	.0006085	.0003577	1.70	0.089	-.0000926	.0013096
timew1w3	0 (omitted)					
Sex Men	.0595309	.033305	1.79	0.074	-.0057457	.1248075
Sex#c.timew1w3 Men	-.0051468	.0067308	-0.76	0.444	-.018339	.0080453
timew1w3	0 (omitted)					
Race AfrAm	.3023199	.0336663	8.98	0.000	.2363347	.3683051
Race#c.timew1w3 AfrAm	-.0000599	.0068603	-0.01	0.993	-.0135058	.013386
timew1w3	0 (omitted)					
PovStat Below	.1313192	.0348856	3.76	0.000	.062944	.1996945
PovStat#c.timew1w3 Below	.0003619	.0069861	0.05	0.959	-.0133308	.0140546

	timew1w3	0 (omitted)					
w1edubr							
2	-.1114128	.0697277	-1.60	0.110	-.2480831	.0252574	
3	-.2127835	.0752142	-2.83	0.005	-.3602016	-.0653654	
w1edubr#c.timew1w3							
2	-.007439	.0140293	-0.53	0.596	-.0349378	.0200597	
3	-.0075645	.0152189	-0.50	0.619	-.0373957	.0222666	
timew1w3	0 (omitted)						
w1WRATtotalcent42	-.0262677	.0023997	-10.95	0.000	-.0309713	-.021564	
c.timew1w3#c.w1WRATtotalcent42	-.0001075	.0004994	-0.22	0.830	-.0010863	.0008714	
timew1w3	0 (omitted)						
1.w1smoke	.0079654	.0386977	0.21	0.837	-.0686519	.0845827	
w1smoke#c.timew1w3							
1	.0080621	.0080145	1.01	0.315	-.0077156	.0238398	
timew1w3	0 (omitted)						
1.w1currdrugs	-.0052601	.0467402	-0.11	0.911	-.0977757	.0872555	
w1currdrugs#c.timew1w3							
1	-.0024879	.0094621	-0.26	0.793	-.0211107	.0161349	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	.0005675	.0015206	0.37	0.710	-.0024451	.00358	
c.timew1w3#c.w1hei2010_total_scorecent43	-.0001649	.0003613	-0.46	0.649	-.0008859	.000556	
timew1w3	0 (omitted)						
w1BMIconcent30	.0023236	.0022403	1.04	0.300	-.0020681	.0067152	
c.timew1w3#c.w1BMIconcent30	-.0006391	.0004488	-1.42	0.154	-.0015188	.0002406	
timew1w3	0 (omitted)						
invmillsmms	-.0023653	.0010409	-2.27	0.023	-.0044053	-.0003252	
c.timew1w3#c.invmillsmms	-.0002389	.0004686	-0.51	0.610	-.0011573	.0006794	
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	-.0195362	.0266361	-0.73	0.463	-.071742	.0326696	
c.timew1w3#c.zw1w3HCYTRAJ	.0060395	.0051791	1.17	0.244	-.0041114	.0161903	
Sex#c.zw1w3HCYTRAJ							
Men	.0623337	.0338342	1.84	0.065	-.0039802	.1286476	
Sex#c.timew1w3#c.zw1w3HCYTRAJ							
Men	.0006864	.0066094	0.10	0.917	-.0122678	.0136406	
_cons	4.485068	.0728026	61.61	0.000	4.34237	4.627766	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0589184	.0134241	.0376974	.0920855
sd(_cons)	.4891933	.0216771	.4484997	.5335791
corr(timew1w3,_cons)	-.4746224	.0488978	-.5647118	-.3733548
sd(Residual)	.3053829	.0276426	.2557383	.3646648

```

438 .
439 .
440 . save, replace
      file finaldata_imputed_FINAL.dta saved

441 .
442 .
443 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
444 .
445 . 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##Sex    ///
> > 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 = 0.0417
Largest FMI = 0.3156
DF: min = 48.29
      avg = 3.42e+13
      max = 1.68e+15
F( 45,94272.1) = 24.03
Prob > F = 0.0000

```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0946233	.0569878	1.66	0.097	-.0170916	.2063382
w1Agecent48	-.0199233	.0052612	-3.79	0.000	-.0302381	-.0096086
c.timew1w3#c.w1Agecent48	-.0031083	.0012845	-2.42	0.016	-.0056265	-.0005901
timew1w3	0 (omitted)					
Sex						
Men	-.3721661	.0920921	-4.04	0.000	-.5526722	-.1916601
Sex#c.timew1w3						
Men	.0231283	.0226484	1.02	0.307	-.0212701	.0675267
timew1w3	0 (omitted)					
Race						
AfrAm	-.2520571	.0937192	-2.69	0.007	-.4357845	-.0683296

Race#c.timew1w3						
AfrAm	- .0162783	.0233035	-0.70	0.485	-.0619559	.0293993
timew1w3	0 (omitted)					
PovStat						
Below	-.0155361	.0948132	-0.16	0.870	-.2013684	.1702963
PovStat#c.timew1w3						
Below	-.0324789	.0228933	-1.42	0.156	-.077349	.0123912
timew1w3	0 (omitted)					
w1edubr						
2	.5106464	.1855558	2.75	0.006	.1469265	.8743663
3	.6803946	.2031687	3.35	0.001	.2821096	1.07868
w1edubr#c.timew1w3						
2	-.0623837	.046817	-1.33	0.183	-.1541615	.0293941
3	-.059853	.050619	-1.18	0.237	-.1590943	.0393883
timew1w3	0 (omitted)					
w1WRATTtotalcent42	.1443922	.0064288	22.46	0.000	.1317898	.1569946
c.timew1w3#c.w1WRATTtotalcent42						
timew1w3	0 (omitted)					
1.w1smoke	.0320361	.1017283	0.31	0.753	-.1679372	.2320094
w1smoke#c.timew1w3						
1	-.0528298	.0247615	-2.13	0.033	-.1013635	-.0042961
timew1w3	0 (omitted)					
1.w1currdrugs	-.0374699	.1323677	-0.28	0.778	-.3007679	.2258281
w1currdrugs#c.timew1w3						
1	.0146926	.0310965	0.47	0.637	-.0465333	.0759185
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	-.0045655	.0045769	-1.00	0.323	-.0137654	.0046344
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3	0 (omitted)					
w1BMIcon30	-.0058178	.0065465	-0.89	0.374	-.0186521	.0070165
c.timew1w3#c.w1BMIcon30						
timew1w3	0 (omitted)					
w1SRH						
2	.1695362	.1213016	1.40	0.162	-.0682106	.4072831
3	.0914652	.1303851	0.70	0.483	-.1640864	.3470169
w1SRH#c.timew1w3						
2	-.0068444	.0302592	-0.23	0.821	-.0661515	.0524626
3	-.0101772	.0324652	-0.31	0.754	-.0738092	.0534549
timew1w3	0 (omitted)					
w1CEScent15	-.0080569	.0042673	-1.89	0.059	-.0164211	.0003072
c.timew1w3#c.w1CEScent15						
timew1w3	0 (omitted)					
c.timew1w3#c.w1CEScent15	.0006135	.0010648	0.58	0.564	-.0014736	.0027007

	timew1w3	0 (omitted)				
w1dxHTN						
Yes	.0262247	.1006656	0.26	0.794	-.1710835	.2235328
w1dxHTN#c.timew1w3						
Yes	-.007649	.0253592	-0.30	0.763	-.0573644	.0420664
timew1w3	0 (omitted)					
w1dxDiabetes						
preDiabetes	-.0065703	.1179881	-0.06	0.956	-.2379068	.2247661
Diabetes	-.0590502	.1481298	-0.40	0.691	-.3517231	.2336226
w1dxDiabetes#c.timew1w3						
preDiabetes	.0292439	.029044	1.01	0.314	-.0276827	.0861704
Diabetes	-.0518924	.0359675	-1.44	0.149	-.1224729	.0186881
timew1w3	0 (omitted)					
w1CVhighChol						
Yes	.1856984	.1106287	1.68	0.094	-.0314464	.4028433
w1CVhighChol#c.timew1w3						
Yes	.0080466	.0280557	0.29	0.774	-.0469739	.0630672
timew1w3	0 (omitted)					
1.w1cvdbr	-.0250911	.1305112	-0.19	0.848	-.2825406	.2323583
w1cvdbr#c.timew1w3						
1	-.0022402	.0320915	-0.07	0.944	-.0653048	.0608243
timew1w3	0 (omitted)					
invmillsmms	.0079858	.0027802	2.87	0.004	.0025366	.013435
c.timew1w3#c.invmillsmms						
	-.0018936	.000612	-3.09	0.002	-.0030931	-.0006942
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	-.0306593	.0733392	-0.42	0.676	-.1744019	.1130833
c.timew1w3#c.zw1w3HCYTRAJ						
	.0071846	.0173371	0.41	0.679	-.0267956	.0411649
Sex#c.zw1w3HCYTRAJ						
Men	.0320905	.0917409	0.35	0.726	-.1477189	.2118999
Sex#c.timew1w3#c.zw1w3HCYTRAJ						
Men	-.0028947	.0220604	-0.13	0.896	-.0461327	.0403433
_cons	27.31451	.2237172	122.09	0.000	26.876	27.75301

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	5.55e-07	.0002376	0		.
sd(_cons)	.9940061	.043015	.9131586	1.082012	
sd(Residual)	1.212003	.0265892	1.160991	1.265256	

```

446 .
447 .
448 . 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##Sex ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            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( 45, 98193.5) =    21.18
                                         Prob > F      = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4683751	.4564399	1.03	0.305	.4263229	1.363073
w1Agecent48	-.174803	.0425477	-4.11	0.000	-.2581996	-.0914064
c.timew1w3##c.w1Agecent48	-.023439	.010341	-2.27	0.023	-.0437093	-.0031686
timew1w3	0	(omitted)				
Sex						
Men	-2.24531	.7507135	-2.99	0.003	-3.716732	-.7738874
Sex##c.timew1w3						
Men	.1354908	.1834003	0.74	0.460	-.2240521	.4950337
timew1w3	0	(omitted)				
Race						
AfrAm	-3.552253	.7598647	-4.67	0.000	-5.041657	-2.06285
Race##c.timew1w3						
AfrAm	.0380447	.1876675	0.20	0.839	-.3297938	.4058831
timew1w3	0	(omitted)				
PovStat						
Below	-.3110943	.7735085	-0.40	0.688	-1.827155	1.204967
PovStat##c.timew1w3						
Below	-.2785013	.1849969	-1.51	0.132	-.6410889	.0840863
timew1w3	0	(omitted)				
w1edubr						
2	3.730323	1.509735	2.47	0.013	.7711728	6.689474
3	5.737391	1.649732	3.48	0.001	2.503752	8.971031
w1edubr##c.timew1w3						

		2	-.4677524	.3743958	-1.25	0.212	-1.201617	.2661125
		3	-.3490868	.4055284	-0.86	0.389	-1.144023	.4458499
	timew1w3		0	(omitted)				
	w1WRATtotalcent42		.942105	.0523007	18.01	0.000	.8395876	1.044622
c.timew1w3#c.w1WRATtotalcent42			-.0329148	.013967	-2.36	0.018	-.0602972	-.0055325
	timew1w3		0	(omitted)				
	1.w1smoke		-.318101	.8167127	-0.39	0.697	-1.920604	1.284402
	w1smoke#c.timew1w3							
	1		-.2852579	.1985693	-1.44	0.151	-.674447	.1039312
	timew1w3		0	(omitted)				
	1.w1currdrugs		.3227711	1.058267	0.30	0.761	-1.772015	2.417557
	w1currdrugs#c.timew1w3							
	1		.0448825	.2561	0.18	0.861	-.4608779	.5506429
	timew1w3		0	(omitted)				
	w1hei2010_total_scorecent43		-.028412	.0357542	-0.79	0.429	-.0994495	.0426255
c.timew1w3#c.w1hei2010_total_scorecent43			.0070952	.0099502	0.71	0.480	-.0130289	.0272193
	timew1w3		0	(omitted)				
	w1BMIcon30		-.04981	.0531115	-0.94	0.348	-.1539165	.0542966
c.timew1w3#c.w1BMIcon30			.0001537	.0126373	0.01	0.990	-.024615	.0249224
	timew1w3		0	(omitted)				
	w1SRH							
	2		1.296408	.9905339	1.31	0.191	-.6450059	3.237823
	3		1.50208	1.068338	1.41	0.160	-.5919204	3.596081
	w1SRH#c.timew1w3							
	2		-.0997716	.2439496	-0.41	0.683	-.577904	.3783608
	3		-.1701909	.2620756	-0.65	0.516	-.6838629	.3434812
	timew1w3		0	(omitted)				
	w1CEScent15		-.0625997	.0347576	-1.80	0.072	-.1307246	.0055251
c.timew1w3#c.w1CEScent15			.0057213	.0085664	0.67	0.504	-.0110697	.0225123
	timew1w3		0	(omitted)				
	w1dxHTN							
	Yes		.4286119	.8240129	0.52	0.603	-1.18654	2.043763
	w1dxHTN#c.timew1w3							
	Yes		-.0880112	.2039135	-0.43	0.666	-.4877304	.311708
	timew1w3		0	(omitted)				
	w1dxDiabetes							
	preDiabetes		.5652517	.967982	0.58	0.559	-1.333072	2.463575
	Diabetes		.0701359	1.187536	0.06	0.953	-2.269432	2.409704
	w1dxDiabetes#c.timew1w3							
	preDiabetes		.2290439	.2338982	0.98	0.327	-.2293936	.6874814
	Diabetes		-.4192292	.2899022	-1.45	0.148	-.9881049	.1496465

	timew1w3	0 (omitted)					
w1CVhighChol							
Yes	1.259139	.9120488	1.38	0.168	-.5319303	3.050207	
w1CVhighChol#c.timew1w3							
Yes	.1009007	.2327766	0.43	0.665	-.356649	.5584504	
timew1w3		0 (omitted)					
1.w1cvdbr	-.5303474	1.076558	-0.49	0.623	-2.656128	1.595433	
w1cvdbr#c.timew1w3							
1	-.0125811	.2639775	-0.05	0.962	-.5325946	.5074324	
timew1w3		0 (omitted)					
invmillsmms	.0449337	.0226804	1.98	0.048	.000481	.0893865	
c.timew1w3#c.invmillsmms							
	-.0102573	.0049907	-2.06	0.040	-.0200389	-.0004757	
timew1w3		0 (omitted)					
zw1w3HCYTRAJ	-.3084989	.5991989	-0.51	0.607	-1.482916	.8659185	
c.timew1w3#c.zw1w3HCYTRAJ							
	.0590944	.1406616	0.42	0.674	-.2165995	.3347884	
Sex#c.zw1w3HCYTRAJ							
Men	.5867993	.7491973	0.78	0.433	-.8816109	2.055209	
Sex#c.timew1w3#c.zw1w3HCYTRAJ							
Men	-.0643296	.1785202	-0.36	0.719	-.414228	.2855687	
_cons	73.71607	1.837851	40.11	0.000	70.11319	77.31895	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.3985857	.	.
sd(_cons)	8.226196	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	9.794581	.	.

449 .
450 .
451 .
452 . 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##Sex ///
> 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 =	0.0382
	Largest FMI =	0.3804
DF adjustment:	Large sample	DF: min = 33.68
		avg = 255,125.09
		max = 5867531.78
Model F test:	Equal FMI	F(45, 110491.9) = 37.25
		Prob > F = 0.0000

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.05781	.178954	-5.91	0.000	-1.40856 -.7070613
w1Agecent48	-.1523546	.0201412	-7.56	0.000	-.1918338 -.1128753
c.timew1w3#c.w1Agecent48	-.0083595	.0043671	-1.91	0.056	-.0169191 .0002001
timew1w3	0 (omitted)				
Sex					
Men	-2.350913	.3540475	-6.64	0.000	-3.044834 -1.656992
Sex#c.timew1w3					
Men	-.2277086	.0767994	-2.96	0.003	-.3782346 -.0771826
timew1w3	0 (omitted)				
Race					
AfrAm	-2.268523	.3629827	-6.25	0.000	-2.980101 -1.556945
Race#c.timew1w3					
AfrAm	.1032071	.0791528	1.30	0.192	-.0519774 .2583916
timew1w3	0 (omitted)				
PovStat					
Below	-.1359661	.3642109	-0.37	0.709	-.8498204 .5778882
PovStat#c.timew1w3					
Below	-.0311675	.0768697	-0.41	0.685	-.181834 .119499
timew1w3	0 (omitted)				
w1edubr					
2	-.5088557	.7013024	-0.73	0.468	-1.884319 .8666074
3	1.682397	.7641594	2.20	0.028	.1840293 3.180764
w1edubr#c.timew1w3					
2	.1013224	.1456661	0.70	0.487	-.1842716 .3869165
3	-.0607339	.1602222	-0.38	0.705	-.3748193 .2533515
timew1w3	0 (omitted)				
w1WRATtotalcent42	.2230202	.0243345	9.16	0.000	.1753239 .2707166
c.timew1w3#c.w1WRATtotalcent42	-.0063085	.0051749	-1.22	0.223	-.0164515 .0038345
timew1w3	0 (omitted)				
1.w1smoke	.1394428	.3848382	0.36	0.717	-.6181433 .8970289

w1smoke#c.timew1w3						
1	- .0281992	.0892985	-0.32	0.753	-.204471	.1480727
timew1w3	0	(omitted)				
1.w1currdrugs	-.279558	.4499502	-0.62	0.534	-1.162102	.6029858
w1currdrugs#c.timew1w3						
1	.1161157	.1010397	1.15	0.251	-.0823093	.3145408
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	.0247237	.0181706	1.36	0.183	-.0122164	.0616637
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3	0	(omitted)				
w1BMIcon30	.0012553	.0248496	0.05	0.960	-.0474512	.0499618
c.timew1w3#c.w1BMIcon30						
timew1w3	0	(omitted)				
w1SRH						
2	.9260301	.4645412	1.99	0.046	.0154958	1.836564
3	.8432857	.5007836	1.68	0.092	-.138344	1.824915
w1SRH#c.timew1w3						
2	-.1467366	.1000057	-1.47	0.142	-.3427463	.0492731
3	-.136263	.1071588	-1.27	0.204	-.3462921	.073766
timew1w3	0	(omitted)				
w1CEScent15						
timew1w3	0	(omitted)				
w1CEScent15	-.0664426	.0160795	-4.13	0.000	-.0979579	-.0349273
c.timew1w3#c.w1CEScent15						
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.0981781	.3846637	0.26	0.799	-.6558864	.8522425
w1dxHTN#c.timew1w3						
Yes	-.0274813	.0846006	-0.32	0.745	-.1933065	.1383438
timew1w3	0	(omitted)				
w1dxDiabetes						
preDiabetes						
Diabetes	-.3988783	.4468916	-0.89	0.372	-1.274907	.4771507
	.6371918	.53421	1.19	0.233	-.4108552	1.685239
w1dxDiabetes#c.timew1w3						
preDiabetes						
Diabetes	.150058	.0992773	1.51	0.131	-.0445953	.3447112
	-.2909703	.120616	-2.41	0.016	-.5277327	-.054208
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.2791239	.4178941	-0.67	0.504	-1.099062	.5408141
w1CVhighChol#c.timew1w3						
Yes	.1752883	.0962281	1.82	0.069	-.0135117	.3640883
timew1w3	0	(omitted)				
1.w1cvdbr	.5239918	.4673437	1.12	0.262	-.3929942	1.440978

w1cvdbr#c.timew1w3							
1	- .1569792	.1067366	-1.47	0.142	-.366626	.0526676	
timew1w3 invmillsmms	0 (omitted)						
c.timew1w3#c.invmillsmms	.0181761	.0102212	1.78	0.075	-.0018571	.0382093	
	-.0003427	.0019938	-0.17	0.864	-.0042506	.0035651	
timew1w3 zw1w3HCYTRAJ	0 (omitted)						
zw1w3HCYTRAJ	.7849735	.2800682	2.80	0.005	.236047	1.3339	
c.timew1w3#c.zw1w3HCYTRAJ	-.074701	.0596804	-1.25	0.211	-.1916737	.0422716	
Sex#c.zw1w3HCYTRAJ Men	-.4767915	.352984	-1.35	0.177	-1.168629	.2150457	
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0502181	.0749939	0.67	0.503	-.0967674	.1972037	
_cons	25.96596	.8421871	30.83	0.000	24.31518	27.61674	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3452814	.1025671	.1928882	.6180745
sd(_cons)	4.287857	.1292574	4.041855	4.548832
sd(Residual)	3.653082	.1301891	3.406618	3.917378

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455 .
456 . 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
> > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> > c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> > if sample4cobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,313
Group variable: HNDID	Number of groups = 1,365
	Obs per group:
	min = 1
	avg = 1.7
	max = 2
DF adjustment: Large sample	Average RVI = 0.0579
	Largest FMI = 0.3359
	DF: min = 42.84
	avg = 325,903.73
	max = 6069922.72
Model F test: Equal FMI	F(45,49491.6) = 23.20
	Prob > F = 0.0000

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.398798	.0870972	-4.58	0.000	-.5695065 -.2280895
w1Agecent48		-.0802636	.0096991	-8.28	0.000	-.0992746 -.0612526
c.timew1w3#c.w1Agecent48		-.0045726	.0021519	-2.12	0.034	-.0087905 -.0003548
	timew1w3	0	(omitted)			
	Sex					
Men		-1.004199	.1705136	-5.89	0.000	-1.338401 -.6699963
	Sex#c.timew1w3					
Men		-.0596692	.0374906	-1.59	0.111	-.133151 .0138125
	timew1w3	0	(omitted)			
	Race					
AfrAm		-1.316648	.1738848	-7.57	0.000	-1.657511 -.9757858
	Race#c.timew1w3					
AfrAm		.0227764	.038432	0.59	0.553	-.0525576 .0981103
	timew1w3	0	(omitted)			
	PovStat					
Below		-.0020245	.1754851	-0.01	0.991	-.3459803 .3419312
	PovStat#c.timew1w3					
Below		-.0262152	.0375868	-0.70	0.486	-.0998871 .0474568
	timew1w3	0	(omitted)			
	w1edubr					
2		-.1679398	.3391837	-0.50	0.621	-.8331394 .4972598
3		.495535	.3687113	1.34	0.179	-.2273374 1.218407
	w1edubr#c.timew1w3					
2		-.0084085	.0702893	-0.12	0.905	-.1461966 .1293795
3		-.0014004	.0774604	-0.02	0.986	-.1532312 .1504303
	timew1w3	0	(omitted)			
	w1WRATtotalcent42					
		.0943346	.0118146	7.98	0.000	.071175 .1174943
c.timew1w3#c.w1WRATtotalcent42		-.0044481	.0025168	-1.77	0.077	-.0093809 .0004847
	timew1w3	0	(omitted)			
1.w1smoke		.0355579	.1985549	0.18	0.858	-.3593623 .430478
	w1smoke#c.timew1w3					
1		-.0137906	.0461118	-0.30	0.766	-.1057275 .0781464
	timew1w3	0	(omitted)			
1.w1currdrugs		-.1528281	.2295072	-0.67	0.506	-.6053503 .2996942
	w1currdrugs#c.timew1w3					
1		-.0175917	.052207	-0.34	0.737	-.1209676 .0857841
	timew1w3	0	(omitted)			
w1hei2010_total_scorecent43		.0078552	.0086335	0.91	0.368	-.0095578 .0252681
c.timew1w3#c.w1hei2010_total_scorecent43		-.0005483	.0019544	-0.28	0.780	-.0044316 .003335

	timew1w3	0	(omitted)				
w1BMIcon30		.0256678	.0119829	2.14	0.032	.0021805	.0491551
c.timew1w3#c.w1BMIcon30		-.0024007	.0025793	-0.93	0.352	-.0074561	.0026547
	timew1w3	0	(omitted)				
w1SRH							
2		.2661971	.2234226	1.19	0.233	-.1717131	.7041073
3		.0762068	.2415278	0.32	0.752	-.3972289	.5496424
w1SRH#c.timew1w3							
2		.0134474	.0491607	0.27	0.784	-.0829061	.1098008
3		.0531433	.0526708	1.01	0.313	-.0500897	.1563762
	timew1w3	0	(omitted)				
w1CEScent15		-.0300356	.0077875	-3.86	0.000	-.0452989	-.0147723
c.timew1w3#c.w1CEScent15		-.0001937	.0017306	-0.11	0.911	-.0035865	.0031991
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0184298	.1851314	0.10	0.921	-.3444895	.3813491
w1dxHTN#c.timew1w3							
Yes		.0231925	.041218	0.56	0.574	-.0575947	.1039796
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.243811	.2154804	-1.13	0.258	-.6663337	.1787117
Diabetes		-.2322097	.2659239	-0.87	0.383	-.7553571	.2909378
w1dxDiabetes#c.timew1w3							
preDiabetes		.065602	.0477925	1.37	0.170	-.0280829	.1592869
Diabetes		-.0163494	.0583886	-0.28	0.780	-.1309128	.0982141
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0811038	.2074153	-0.39	0.696	-.4889599	.3267523
w1CVhighChol#c.timew1w3							
Yes		.062035	.0478933	1.30	0.196	-.0320881	.1561582
	timew1w3	0	(omitted)				
1.w1cvdbr		.2983475	.2309429	1.29	0.197	-.1553586	.7520537
w1cvdbr#c.timew1w3							
1		-.0520201	.0515644	-1.01	0.313	-.1531527	.0491125
	timew1w3	0	(omitted)				
invmillsmms		.0081736	.0048647	1.68	0.093	-.0013609	.0177082
c.timew1w3#c.invmillsmms		-.0004517	.0009441	-0.48	0.632	-.0023022	.0013987
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.5026113	.1352717	3.72	0.000	.2374827	.7677399
c.timew1w3#c.zw1w3HCYTRAJ		-.0471931	.0297453	-1.59	0.113	-.105493	.0111067

Sex#c.zw1w3HCYTRAJ Men	-.279874	.1712414	-1.63	0.102	-.6155013	.0557533
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0211902	.0371554	0.57	0.568	-.0516331	.0940135
_cons	8.369396	.4092379	20.45	0.000	7.567137	9.171655

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0777229	.1013506	.0060335	1.001214
sd(_cons)	1.969528	.063347	1.849202	2.097683
sd(Residual)	1.798317	.0610216	1.682607	1.921984

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460 . 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##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
 > if sample4dobs==1 || HNDID: timew1w3, cov(un)

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	

DF adjustment: Large sample

Average RVI	=	0.0360
Largest FMI	=	0.2881
DF: min	=	57.48
avg	=	595,786.20
max	=	7641783.70

Model F test: Equal FMI

F(45,119511.4)	=	20.54
Prob > F	=	0.0000

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.494004	.1319793	3.74	0.000	.2353091
w1Agecent48	.111001	.0144189	7.70	0.000	.0827401
c.timew1w3#c.w1Agecent48	.0102755	.0030657	3.35	0.001	.0042667
timew1w3		0 (omitted)			
Sex					
Men	-.916876	.2560716	-3.58	0.000	-1.418791
Sex#c.timew1w3					
Men	.0526805	.0539456	0.98	0.329	-.0530555
timew1w3		0 (omitted)			
Race					

	AfrAm	.6311569	.2571477	2.45	0.014	.1271547	1.135159
Race#c.timew1w3							
AfrAm		.1480852	.0548252	2.70	0.007	.0406289	.2555415
timew1w3		0	(omitted)				
PovStat							
Below		.0893667	.2639602	0.34	0.735	-.427986	.6067194
PovStat#c.timew1w3							
Below		.0573026	.0550872	1.04	0.298	-.0506664	.1652716
timew1w3		0	(omitted)				
w1edubr							
2		-.5992773	.5159604	-1.16	0.245	-1.610753	.4121981
3		-1.397227	.5674366	-2.46	0.014	-2.509893	-.2845616
w1edubr#c.timew1w3							
2		-.1655018	.1070527	-1.55	0.122	-.3753251	.0443214
3		-.1397933	.1169959	-1.19	0.232	-.3691024	.0895159
timew1w3		0	(omitted)				
w1WRATtotalcent42		-.1489156	.0179127	-8.31	0.000	-.1840376	-.1137936
c.timew1w3#c.w1WRATtotalcent42		-.0037505	.0037258	-1.01	0.314	-.0110531	.0035521
timew1w3		0	(omitted)				
1.w1smoke		.2941482	.2805588	1.05	0.295	-.2576117	.8459081
w1smoke#c.timew1w3							
1		-.043128	.0596863	-0.72	0.470	-.1601286	.0738727
timew1w3		0	(omitted)				
1.w1currdrugs		-.4232217	.3770017	-1.12	0.266	-1.178017	.3315737
w1currdrugs#c.timew1w3							
1		.1193777	.0740282	1.61	0.108	-.0261031	.2648586
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		-.0032363	.0115066	-0.28	0.779	-.0260484	.0195758
c.timew1w3#c.w1hei2010_total_scorecent43		-.0037332	.0027317	-1.37	0.175	-.0091529	.0016865
timew1w3		0	(omitted)				
w1BMIcontent30		-.0100066	.0179694	-0.56	0.578	-.0452262	.0252129
c.timew1w3#c.w1BMIcontent30		-.0033542	.00381	-0.88	0.379	-.0108217	.0041133
timew1w3		0	(omitted)				
w1SRH							
2		-.8298331	.339599	-2.44	0.015	-1.495437	-.1642291
3		-.8045195	.3657972	-2.20	0.028	-1.521473	-.0875662
w1SRH#c.timew1w3							
2		-.061308	.0720333	-0.85	0.395	-.2024908	.0798748
3		-.0158801	.0777834	-0.20	0.838	-.1683403	.1365801
timew1w3		0	(omitted)				
w1CEScent15		.0448014	.0120847	3.71	0.000	.0211078	.0684949

c.timew1w3#c.w1CEScent15		- .0003752	.0025574	-0.15	0.883	-.0053883	.0046379
	timew1w3		0 (omitted)				
w1dxHTN							
Yes		.3702331	.2858672	1.30	0.196	-.1911106	.9315768
w1dxHTN#c.timew1w3							
Yes		-.0416439	.0600613	-0.69	0.488	-.1593635	.0760758
	timew1w3		0 (omitted)				
w1dxDiabetes							
preDiabetes		.3189884	.3296152	0.97	0.333	-.327768	.9657448
Diabetes		.2437222	.391637	0.62	0.534	-.5260382	1.013483
w1dxDiabetes#c.timew1w3							
preDiabetes		-.0314692	.0695569	-0.45	0.651	-.1677989	.1048604
Diabetes		.0275436	.0822661	0.33	0.738	-.1336977	.1887849
	timew1w3		0 (omitted)				
w1CVhighChol							
Yes		-.0006829	.312284	-0.00	0.998	-.6157279	.6143621
w1CVhighChol#c.timew1w3							
Yes		-.0075052	.0671604	-0.11	0.911	-.1392085	.1241981
	timew1w3		0 (omitted)				
1.w1cvdbr		.4626596	.3383622	1.37	0.172	-.2009014	1.126221
w1cvdbr#c.timew1w3							
1		-.1615804	.0750568	-2.15	0.031	-.3087691	-.0143916
	timew1w3		0 (omitted)				
invmillsmms		-.0175766	.0077746	-2.26	0.024	-.0328146	-.0023386
c.timew1w3#c.invmillsmms							
		.0000571	.0015423	0.04	0.970	-.0029658	.0030799
	timew1w3		0 (omitted)				
zw1w3HCYTRAJ		-.1205365	.2031212	-0.59	0.553	-.5186475	.2775746
c.timew1w3#c.zw1w3HCYTRAJ							
		.0210535	.0421937	0.50	0.618	-.0616451	.1037521
	Sex#c.zw1w3HCYTRAJ						
Men		.0212837	.254369	0.08	0.933	-.4772707	.5198381
Sex#c.timew1w3#c.zw1w3HCYTRAJ							
Men		.0595824	.0528531	1.13	0.260	-.0440085	.1631734
	_cons	7.676418	.6264299	12.25	0.000	6.448418	8.904417

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.6538957	.0608738	.5448305	.7847937
sd(_cons)	3.884489	.1380633	3.62309	4.164748
corr(timew1w3,_cons)	-.4757382	.0344029	-.5403253	-.4055782
sd(Residual)	1.973098	.2009199	1.616095	2.408964

```

461 .
462 .
463 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4eobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0356
Largest FMI = 0.2988
DF: min = 53.61
avg = 1821662.53
max = 2.67e+07
F( 45, 120363.5) = 9.70
Prob > F = 0.0000

```

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0322501	.0666101	-0.48	0.628	-.1628068 .0983066
w1Agecent48	-.0148719	.0068788	-2.16	0.031	-.0283547 -.001389
c.timew1w3#c.w1Agecent48	-.0027814	.0015592	-1.78	0.074	-.0058374 .0002746
timew1w3	0 (omitted)				
Sex					
Men	-.2839023	.1212486	-2.34	0.019	-.5215453 -.0462592
Sex#c.timew1w3					
Men	-.0061384	.0272356	-0.23	0.822	-.0595192 .0472424
timew1w3	0 (omitted)				
Race					
AfrAm	-.722772	.1230283	-5.87	0.000	-.9639068 -.4816372
Race#c.timew1w3					
AfrAm	.0476679	.0278028	1.71	0.086	-.0068246 .1021603
timew1w3	0 (omitted)				
PovStat					
Below	-.0361928	.1258501	-0.29	0.774	-.2828549 .2104693

PovStat#c.timew1w3 Below		- .0462846	.0279922	-1.65	0.098	-.1011489	.0085798
	timew1w3		0 (omitted)				
w1edubr 2 3		.3665323	.246193	1.49	0.137	-.1160376	.8491023
		.4686628	.2684533	1.75	0.081	-.0575792	.9949048
w1edubr#c.timew1w3 2 3		- .0050813	.054882	-0.09	0.926	-.1126625	.1024998
		-.0288931	.0594885	-0.49	0.627	-.1454943	.0877081
timew1w3 w1WRATtotalcent42		0 (omitted)					
		.0722747	.0084589	8.54	0.000	.0556954	.088854
c.timew1w3#c.w1WRATtotalcent42		.0031537	.0019211	1.64	0.101	-.0006116	.006919
timew1w3 1.w1smoke		0 (omitted)					
		-.1492147	.139146	-1.07	0.285	-.424261	.1258316
w1smoke#c.timew1w3 1		-.0191614	.0304509	-0.63	0.529	-.0788744	.0405516
timew1w3 1.w1currdrugs		0 (omitted)					
		.3389067	.155187	2.18	0.029	.0346583	.6431552
w1currdrugs#c.timew1w3 1		-.0278157	.035773	-0.78	0.437	-.0979432	.0423118
timew1w3 w1hei2010_total_scorecent43		0 (omitted)					
		-.0052039	.0054984	-0.95	0.345	-.0160603	.0056524
c.timew1w3#c.w1hei2010_total_scorecent43		.000277	.001242	0.22	0.824	-.0021574	.0027114
timew1w3 w1BMIcon30		0 (omitted)					
		-.0190127	.0086343	-2.20	0.028	-.0359365	-.0020888
c.timew1w3#c.w1BMIcon30		.0004967	.0019206	0.26	0.796	-.0032676	.004261
timew1w3		0 (omitted)					
w1SRH 2 3		.4230039	.1618424	2.61	0.009	.1057888	.7402191
		.3367483	.1742321	1.93	0.053	-.0047627	.6782592
w1SRH#c.timew1w3 2 3		-.0273248	.0367114	-0.74	0.457	-.099278	.0446284
		-.0025985	.0395688	-0.07	0.948	-.080157	.0749599
timew1w3 w1CEScent15		0 (omitted)					
		-.0072828	.005638	-1.29	0.196	-.0183335	.0037679
c.timew1w3#c.w1CEScent15		-.0004835	.0012685	-0.38	0.703	-.0029697	.0020027
timew1w3		0 (omitted)					
w1dxHTN Yes		.0460295	.1361867	0.34	0.735	-.2210977	.3131566
w1dxHTN#c.timew1w3 Yes		-.0380237	.0307959	-1.23	0.217	-.098387	.0223397

	timew1w3	0 (omitted)				
w1dxDiabetes						
preDiabetes		-.230971	.1532951	-1.51	0.132	-.5314251
Diabetes		-.3335716	.1899256	-1.76	0.080	-.7069238
w1dxDiabetes#c.timew1w3						
preDiabetes		.0678135	.035387	1.92	0.055	-.0015438
Diabetes		-.0245083	.0418729	-0.59	0.558	-.1065872
timew1w3	0 (omitted)					
w1CVhighChol						
Yes		.1412359	.1551566	0.91	0.364	-.1657021
w1CVhighChol#c.timew1w3						
Yes		.0249317	.0344474	0.72	0.469	-.0426372
timew1w3	0 (omitted)					
1.w1cvdbr		.0304425	.1864029	0.16	0.871	-.3433356
w1cvdbr#c.timew1w3						
1		.0215713	.0405689	0.53	0.596	-.0586222
timew1w3	0 (omitted)					
invmillsmms		.0022363	.0035365	0.63	0.527	-.004695
c.timew1w3#c.invmillsmms						
		-.0007241	.0007304	-0.99	0.321	-.0021557
timew1w3	0 (omitted)					
zw1w3HCYTRAJ		.0647282	.0970278	0.67	0.505	-.1254429
c.timew1w3#c.zw1w3HCYTRAJ						
		-.0091538	.021773	-0.42	0.674	-.051828
Sex#c.zw1w3HCYTRAJ						
Men		-.111247	.1220398	-0.91	0.362	-.3504408
Sex#c.timew1w3#c.zw1w3HCYTRAJ						
Men		-.0124018	.0273324	-0.45	0.650	-.0659724
_cons	6.607102	.2961973	22.31	0.000	6.026558	7.187646

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.1143482	.1028322	.0196223	.6663586	
sd(_cons)	1.397865	.1105384	1.197168	1.632208	
corr(timew1w3,_cons)	-.0733461	.3133485	-.5985942	.496008	
sd(Residual)	1.356033	.099336	1.174669	1.565399	

464 .

```
465 . 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##Sex ///
> if sample4fobs==1 || HNDID: timew1w3, cov(un)
```

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 = 0.0539
Largest FMI = 0.3138
DF: min = 48.83
avg = 1419109.74
max = 6.61e+07

F(45, 54638.3) = 8.68
Prob > F = 0.0000

	FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		- .0178603	.13432	-0.13	0.894	-.2811954 .2454748
w1Agecent48		-.0942843	.0164519	-5.73	0.000	-.1265406 -.062028
c.timew1w3##c.w1Agecent48		-.0022437	.0031487	-0.71	0.476	-.0084152 .0039279
timew1w3		0	(omitted)			
Sex						
Men		1.180509	.2871399	4.11	0.000	.6177102 1.743308
Sex##c.timew1w3						
Men		.0013787	.0549393	0.03	0.980	-.1063009 .1090584
timew1w3		0	(omitted)			
Race						
AfrAm		-1.470966	.2921466	-5.04	0.000	-2.043601 -.8983309
Race##c.timew1w3						
AfrAm		-.0131246	.0566264	-0.23	0.817	-.1241168 .0978675
timew1w3		0	(omitted)			
PovStat						
Below		-.4938711	.2986522	-1.65	0.098	-1.079232 .0914902
PovStat##c.timew1w3						
Below		.0185962	.056471	0.33	0.742	-.0920869 .1292793
timew1w3		0	(omitted)			
w1edubr						
2		-.3754543	.5787377	-0.65	0.517	-1.509862 .7589538
3		.8509604	.6302035	1.35	0.177	-.3842895 2.08621
w1edubr##c.timew1w3						
2		.0936104	.1109147	0.84	0.399	-.1239657 .3111864

	3	.0647136	.1222347	0.53	0.597	-.1751071	.3045343
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		.1554081	.0197253	7.88	0.000	.1167467	.1940695
c.timew1w3#c.w1WRATTtotalcent42		.0027906	.0038049	0.73	0.463	-.0046672	.0102484
	timew1w3	0	(omitted)				
1.w1smoke		-.4264094	.3332813	-1.28	0.205	-1.090657	.2378384
	w1smoke#c.timew1w3						
1		.0221818	.0628969	0.35	0.724	-.1013243	.1456879
	timew1w3	0	(omitted)				
1.w1currdrugs		.420641	.3921901	1.07	0.286	-.3560514	1.197333
	w1currdrugs#c.timew1w3						
1		-.0308773	.0727598	-0.42	0.671	-.1735485	.1117939
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0234835	.0133601	1.76	0.085	-.003367	.050334
c.timew1w3#c.w1hei2010_total_scorecent43		-.002776	.0025707	-1.08	0.280	-.0078177	.0022658
	timew1w3	0	(omitted)				
w1BMIcontent30		.0149112	.0206507	0.72	0.470	-.0255958	.0554183
c.timew1w3#c.w1BMIcontent30		.001355	.0038857	0.35	0.727	-.0062612	.0089713
	timew1w3	0	(omitted)				
w1SRH							
2		.051658	.3812758	0.14	0.892	-.6956561	.7989722
3		.2228897	.4100726	0.54	0.587	-.5808794	1.026659
	w1SRH#c.timew1w3						
2		.0221849	.0736486	0.30	0.763	-.1221665	.1665363
3		-.04432	.0787277	-0.56	0.573	-.1986246	.1099847
	timew1w3	0	(omitted)				
w1CEScent15							
timew1w3	0	(omitted)					
w1CEScent15		-.0352808	.0133347	-2.65	0.008	-.0614188	-.0091428
c.timew1w3#c.w1CEScent15		.0022126	.0025569	0.87	0.387	-.0027989	.0072241
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.3981955	.3201498	1.24	0.214	-.2302732	1.026664
	w1dxHTN#c.timew1w3						
Yes		-.0577692	.0626184	-0.92	0.356	-.1805567	.0650184
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.0912736	.3654526	-0.25	0.803	-.8078263	.6252792
Diabetes		-.008529	.4209119	-0.02	0.984	-.8335929	.816535
	w1dxDiabetes#c.timew1w3						
preDiabetes		.0186528	.0723504	0.26	0.797	-.123198	.1605035
Diabetes		.0778039	.086208	0.90	0.367	-.0913236	.2469315
	timew1w3	0	(omitted)				

w1CVhighChol Yes	.140011	.3690159	0.38	0.706	-.5960656	.8760876
w1CVhighChol#c.timew1w3 Yes	.0453329	.0740743	0.61	0.541	-.1009512	.1916169
timew1w3 1.w1cvdbr	0 .2265907	(omitted) .374367	0.61	0.545	-.508	.9611815
w1cvdbr#c.timew1w3 1	-.031263	.0767529	-0.41	0.684	-.1818203	.1192942
timew1w3 invmillsmms	0 .0098187	(omitted) .0089196	1.10	0.271	-.0076634	.0273007
c.timew1w3#c.invmillsmms	-.0014902	.0015876	-0.94	0.348	-.0046018	.0016213
timew1w3 zw1w3HCYTRAJ	0 -.2422493	(omitted) .2283833	-1.06	0.289	-.6898731	.2053745
c.timew1w3#c.zw1w3HCYTRAJ	-.0255873	.043109	-0.59	0.553	-.1100798	.0589052
Sex#c.zw1w3HCYTRAJ Men	.2982548	.2866985	1.04	0.298	-.2636659	.8601755
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	-.0172446	.0540093	-0.32	0.750	-.1231012	.088612
_cons	19.05504	.7000721	27.22	0.000	17.68276	20.42731

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.2686239	.1675646	.0790974	.9122778
sd(_cons)	3.970047	.1675511	3.654866	4.312407
corr(timew1w3,_cons)	-.1697483	.1368842	-.419971	.1044595
sd(Residual)	2.905734	.1734675	2.584872	3.266426

```

466 .
467 . 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##Sex ///
> if sample4gobs==1 || HNDID: timew1w3, cov(un)

```

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 =	.
	Largest FMI =	.
DF adjustment:	Large sample	DF: min = 0.00
		avg = .
		max = .
Model F test:	Equal FMI	F(45,39787.0) = 11.04
		Prob > F = 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0121865	.0524491	0.23	0.816	-.0906124 .1149854
w1Agecent48	-.0063131	.0063027	-1.00	0.317	-.0186677 .0060415
c.timew1w3#c.w1Agecent48	-.0037067	.0012498	-2.97	0.003	-.0061563 -.0012571
timew1w3	0 (omitted)				
Sex					
Men	.2033797	.1107822	1.84	0.066	-.0137596 .4205191
Sex#c.timew1w3					
Men	-.0394922	.0217692	-1.81	0.070	-.0821603 .003176
timew1w3	0 (omitted)				
Race					
AfrAm	-.3072312	.1130629	-2.72	0.007	-.528904 -.0855584
Race#c.timew1w3					
AfrAm	-.0113576	.0221111	-0.51	0.607	-.0546946 .0319793
timew1w3	0 (omitted)				
PovStat					
Below	-.1043583	.1145776	-0.91	0.362	-.3289348 .1202181
PovStat#c.timew1w3					
Below	-.0187251	.0221915	-0.84	0.399	-.06222 .0247699
timew1w3	0 (omitted)				
w1edubr					
2	-.1044328	.2227552	-0.47	0.639	-.5410329 .3321673
3	.1846576	.2430512	0.76	0.447	-.2917406 .6610558
w1edubr#c.timew1w3					
2	-.0002879	.0425586	-0.01	0.995	-.0837015 .0831257
3	-.0211889	.0467934	-0.45	0.651	-.1129043 .0705265
timew1w3	0 (omitted)				
w1WRATtotalcent42	.1122655	.0076632	14.65	0.000	.0972441 .1272869
c.timew1w3#c.w1WRATtotalcent42	.0000561	.0015022	0.04	0.970	-.0028883 .0030006
timew1w3	0 (omitted)				
1.w1smoke	.1808995	.1275364	1.42	0.160	-.0729919 .434791

w1smoke#c.timew1w3						
1	- .0118728	.0248197	-0.48	0.633	-.0606081	.0368625
timew1w3	0	(omitted)				
1.w1currdrugs	.3760903	.1768523	2.13	0.044	.0111037	.7410768
w1currdrugs#c.timew1w3						
1	-.00543	.0301947	-0.18	0.857	-.0648674	.0540075
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	.0007119	.0047405	0.15	0.881	-.008638	.0100617
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3	0	(omitted)				
w1BMIcon30	-.0079605	.0079801	-1.00	0.319	-.0236156	.0076945
c.timew1w3#c.w1BMIcon30						
timew1w3	0	(omitted)				
w1SRH						
2	-.0073858	.1466027	-0.05	0.960	-.2947235	.2799519
3	.0391395	.1585748	0.25	0.805	-.2717095	.3499886
w1SRH#c.timew1w3						
2	.0240429	.0292474	0.82	0.411	-.0332811	.0813668
3	.0173294	.0315463	0.55	0.583	-.0445044	.0791631
timew1w3	0	(omitted)				
w1CEScent15						
timew1w3	0	(omitted)				
w1CEScent15						
c.timew1w3#c.w1CEScent15						
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.0497285	.1210084	0.41	0.681	-.1874741	.286931
w1dxHTN#c.timew1w3						
Yes	.0009101	.024854	0.04	0.971	-.0478231	.0496434
timew1w3	0	(omitted)				
w1dxDiabetes						
preDiabetes						
Diabetes						
w1dxDiabetes						
preDiabetes						
Diabetes						
w1dxDiabetes#c.timew1w3						
preDiabetes	.0335648	.0282209	1.19	0.234	-.0217494	.0888791
Diabetes	.0103291	.0348536	0.30	0.767	-.0580839	.078742
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.0692772	.1361918	-0.51	0.612	-.3385714	.2000169
w1CVhighChol#c.timew1w3						
Yes	.0083371	.0281839	0.30	0.768	-.0470578	.0637319
timew1w3	0	(omitted)				
1.w1cvdbr	-.1268937	.1452313	-0.87	0.382	-.4118788	.1580914

w1cvdbr#c.timew1w3							
1	- .0019122	.0300404	-0.06	0.949	-.0608018	.0569775	
timew1w3	0	(omitted)					
invmillsmms	.005786	.0034154	1.69	0.090	-.0009082	.0124801	
c.timew1w3#c.invmillsmms							
	-.000518	.000617	-0.84	0.401	-.0017273	.0006914	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	-.1094694	.0880866	-1.24	0.214	-.2821166	.0631778	
c.timew1w3#c.zw1w3HCYTRAJ							
	-.0054882	.0171043	-0.32	0.748	-.0390123	.0280359	
Sex#c.zw1w3HCYTRAJ							
Men	.1439326	.1101839	1.31	0.191	-.0720244	.3598895	
Sex#c.timew1w3#c.zw1w3HCYTRAJ							
Men	-.0131978	.0213341	-0.62	0.536	-.0550119	.0286164	
_cons	7.241611	.2709848	26.72	0.000	6.710396	7.772826	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0176432	.	.
sd(_cons)	1.473802	.	.
corr(timew1w3,_cons)	.999986	.	.
sd(Residual)	1.189753	.	.

468 .

```
469 . 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.w1BMIcent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4hobs==1 || HNDID: timew1w3, cov(un)
```

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(45,31252.3)	=	15.45
Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0269882	.0551424	-0.49	0.625	-.1350996 .0811232
w1Agecent48	-.0151878	.0061523	-2.47	0.014	-.0272487 -.0031269
c.timew1w3#c.w1Agecent48	-.001619	.0012903	-1.25	0.210	-.004148 .00091
timew1w3	0 (omitted)				
Sex Men	-.070718	.1075807	-0.66	0.511	-.2815768 .1401409
Sex#c.timew1w3 Men	-.0249401	.0225395	-1.11	0.269	-.0691169 .0192366
timew1w3	0 (omitted)				
Race AfrAm	-.562753	.1080684	-5.21	0.000	-.7745641 -.3509419
Race#c.timew1w3 AfrAm	-.0228708	.0229275	-1.00	0.319	-.0678083 .0220667
timew1w3	0 (omitted)				
PovStat Below	-.0938566	.1115307	-0.84	0.400	-.3124685 .1247552
PovStat#c.timew1w3 Below	-.0024932	.0230173	-0.11	0.914	-.047607 .0426205
timew1w3	0 (omitted)				
w1edubr 2	-.2198049	.2158653	-1.02	0.309	-.642895 .2032852
3	.1167533	.2357055	0.50	0.620	-.3452278 .5787344
w1edubr#c.timew1w3 2	.057942	.044091	1.31	0.189	-.028475 .1443589
3	.0293925	.048377	0.61	0.543	-.0654248 .1242098
timew1w3	0 (omitted)				
w1WRATtotalcent42	.1222219	.0074162	16.48	0.000	.1076862 .1367576
c.timew1w3#c.w1WRATtotalcent42	-.0019443	.0015657	-1.24	0.214	-.0050132 .0011246
timew1w3	0 (omitted)				
1.w1smoke	-.0252772	.1270247	-0.20	0.843	-.2784952 .2279409
w1smoke#c.timew1w3 1	.003617	.0281357	0.13	0.898	-.0524305 .0596645
timew1w3	0 (omitted)				
1.w1currdrugs	.1358771	.1473791	0.92	0.358	-.1553395 .4270938
w1currdrugs#c.timew1w3 1	.022508	.0303779	0.74	0.459	-.0371106 .0821266
timew1w3	0 (omitted)				
w1hei2010_total_scorecent43	-.0009214	.0051416	-0.18	0.858	-.0112415 .0093987
c.timew1w3#c.w1hei2010_total_scorecent43	.0011318	.0011852	0.95	0.343	-.0012383 .0035019

	timew1w3	0	(omitted)				
w1BMIcon30		- .0030369	.0077263	-0.39	0.694	- .0181884	.0121146
c.timew1w3#c.w1BMIcon30		- .0029605	.001612	-1.84	0.066	- .006121	.0002
	timew1w3	0	(omitted)				
w1SRH							
2		- .0007101	.1436612	-0.00	0.996	- .282319	.2808988
3		.1121131	.158249	0.71	0.479	- .1985096	.4227358
w1SRH#c.timew1w3							
2		- .0214446	.0302576	-0.71	0.478	- .0807496	.0378604
3		- .0246208	.0326959	-0.75	0.451	- .0887108	.0394693
	timew1w3	0	(omitted)				
w1CEScent15		- .0044048	.0049662	-0.89	0.375	- .0141385	.0053289
c.timew1w3#c.w1CEScent15		- .0007788	.0010488	-0.74	0.458	- .0028344	.0012767
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		- .0561261	.119216	-0.47	0.638	- .2898979	.1776458
w1dxHTN#c.timew1w3							
Yes		.0095342	.025584	0.37	0.709	- .040619	.0596875
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.2269329	.1359071	1.67	0.095	- .039453	.4933188
Diabetes		-.1180347	.1734419	-0.68	0.497	- .4608706	.2248011
w1dxDiabetes#c.timew1w3							
preDiabetes		.0037794	.0292531	0.13	0.897	- .053558	.0611167
Diabetes		-.0157884	.0357082	-0.44	0.658	- .0858294	.0542525
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		- .0358545	.1293215	-0.28	0.782	- .2899975	.2182884
w1CVhighChol#c.timew1w3							
Yes		.0237875	.0306648	0.78	0.439	- .0368825	.0844576
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0124028	.1938575	-0.06	0.950	- .421832	.3970265
w1cvdbr#c.timew1w3							
1		.0280212	.0351439	0.80	0.428	- .0420606	.098103
	timew1w3	0	(omitted)				
invmillsmms		.0052027	.0033097	1.57	0.116	- .0012842	.0116896
c.timew1w3#c.invmillsmms		- .0004288	.0006389	-0.67	0.502	- .0016809	.0008234
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.052101	.0862367	-0.60	0.546	- .2211227	.1169208
c.timew1w3#c.zw1w3HCYTRAJ		.0128248	.0176884	0.73	0.468	- .0218439	.0474935

Sex#c.zw1w3HCYTRAJ						
Men	.025779	.107474	0.24	0.810	-.1848674	.2364254
Sex#c.timew1w3#c.zw1w3HCYTRAJ						
Men	-.0172901	.0220806	-0.78	0.434	-.0605675	.0259872
_cons	5.961225	.2665591	22.36	0.000	5.438423	6.484026

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0050605	.	.
sd(_cons)	1.353638	.	.
corr(timew1w3,_cons)	-.9999775	.	.
sd(Residual)	1.234892	.	.

470 .
471 . 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##Sex ///
> if sample4iobs==1 || HNDID: timew1w3, cov(un)

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	=	0.0483
Largest FMI	=	0.2740

DF adjustment: Large sample

DF:	min	=	63.30
	avg	=	1790055.58
	max	=	3.61e+07

Model F test: Equal FMI

F(45,67119.8)	=	5.44
Prob > F	=	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0593314	.0425684	-1.39	0.163	-.1427948 .024132
w1Agecent48	-.0039167	.0037699	-1.04	0.299	-.0113056 .0034723
c.timew1w3#c.w1Agecent48	-.0013008	.0009932	-1.31	0.190	-.0032476 .0006461
timew1w3	0 (omitted)				
Sex					
Men	.086178	.0663194	1.30	0.194	-.0438059 .2161618
Sex#c.timew1w3					
Men	.010982	.0173173	0.63	0.526	-.0229596 .0449236
timew1w3	0 (omitted)				
Race					
AfrAm	-.3477716	.0669719	-5.19	0.000	-.4790343 -.2165089

Race#c.timew1w3						
AfrAm	.0236451	.0176266	1.34	0.180	-.0109028	.0581929
timew1w3	0 (omitted)					
PovStat Below	.0832284	.0689812	1.21	0.228	-.0519726	.2184295
PovStat#c.timew1w3						
Below	-.0040847	.0176662	-0.23	0.817	-.0387099	.0305404
timew1w3	0 (omitted)					
w1edubr						
2	-.0284664	.1369557	-0.21	0.835	-.2969745	.2400418
3	.1638395	.149184	1.10	0.272	-.1286269	.456306
w1edubr#c.timew1w3						
2	.0457404	.0345284	1.32	0.185	-.0219433	.1134241
3	.0554785	.0378764	1.46	0.143	-.0187682	.1297251
timew1w3	0 (omitted)					
w1WRATtotalcent42	.0272847	.0046405	5.88	0.000	.0181883	.036381
c.timew1w3#c.w1WRATtotalcent42						
timew1w3	0 (omitted)					
1.w1smoke	-.0262733	.07541	-0.35	0.728	-.174636	.1220895
w1smoke#c.timew1w3						
1	.0098762	.0200145	0.49	0.622	-.0295008	.0492532
timew1w3	0 (omitted)					
1.w1currdrugs	.3254794	.0949586	3.43	0.001	.1374762	.5134826
w1currdrugs#c.timew1w3						
1	-.0620531	.0226856	-2.74	0.006	-.1065252	-.0175809
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	.0023441	.0030291	0.77	0.440	-.0036156	.0083039
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3	0 (omitted)					
w1BMIconcent30	-.0047819	.0047448	-1.01	0.314	-.0140825	.0045187
c.timew1w3#c.w1BMIconcent30						
timew1w3	0 (omitted)					
w1SRH						
2	.1451595	.0886063	1.64	0.101	-.0285077	.3188268
3	-.0249723	.0953284	-0.26	0.793	-.2118164	.1618717
w1SRH#c.timew1w3						
2	.0067642	.0232046	0.29	0.771	-.0387162	.0522446
3	.0182548	.0248683	0.73	0.463	-.0304874	.066997
timew1w3	0 (omitted)					
w1CEScent15	-.0074991	.0031098	-2.41	0.016	-.0135945	-.0014037
c.timew1w3#c.w1CEScent15						
timew1w3	0 (omitted)					

	timew1w3	0	(omitted)				
w1dxHTN							
Yes	.0675966	.0755773	0.89	0.371	-.0807082	.2159013	
w1dxHTN#c.timew1w3							
Yes	-.0377456	.0196108	-1.92	0.054	-.0761921	.000701	
timew1w3	0	(omitted)					
w1dxDiabetes							
preDiabetes	-.0529432	.0856593	-0.62	0.537	-.2208818	.1149953	
Diabetes	.0582422	.1114901	0.52	0.603	-.1633323	.2798168	
w1dxDiabetes#c.timew1w3							
preDiabetes	.0169969	.0224483	0.76	0.449	-.0270066	.0610003	
Diabetes	-.0462894	.0277059	-1.67	0.095	-.1007115	.0081326	
timew1w3	0	(omitted)					
w1CVhighChol							
Yes	-.0526179	.0904479	-0.58	0.563	-.2333471	.1281112	
w1CVhighChol#c.timew1w3							
Yes	.0066177	.022402	0.30	0.768	-.0374288	.0506643	
timew1w3	0	(omitted)					
1.w1cvdbr	-.0858882	.0922071	-0.93	0.352	-.2669779	.0952015	
w1cvdbr#c.timew1w3							
1	.0011525	.0258063	0.04	0.964	-.0498716	.0521765	
timew1w3	0	(omitted)					
invmillsmms	.0009644	.0020779	0.46	0.643	-.0031082	.0050371	
c.timew1w3#c.invmillsmms							
	-.0002917	.0004976	-0.59	0.558	-.001267	.0006836	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	-.0671306	.0529641	-1.27	0.205	-.1709386	.0366773	
c.timew1w3#c.zw1w3HCYTRAJ							
	.0021232	.0135711	0.16	0.876	-.0244756	.0287221	
Sex#c.zw1w3HCYTRAJ							
Men	.0458217	.066375	0.69	0.490	-.084271	.1759143	
Sex#c.timew1w3#c.zw1w3HCYTRAJ							
Men	-.0134313	.0169317	-0.79	0.428	-.0466169	.0197544	
_cons	8.772044	.1652249	53.09	0.000	8.448142	9.095946	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0485863	.0762251	.0022444	1.051795	
sd(_cons)	.6298713	.0740499	.5002435	.7930896	
corr(timew1w3,_cons)	-.1031324	.4670966	-.7734415	.6760681	
sd(Residual)	.9563441	.0450167	.8720607	1.048773	

472 .

```
473 . 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.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> 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 = 0.0434
Largest FMI = 0.3055

DF adjustment: Large sample

DF: min = 51.39
avg = 9952137.45
max = 2.01e+08

Model F test: Equal FMI

F(45, 85001.3) = 11.47
Prob > F = 0.0000

	LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0076347	.0111506	0.68	0.494	.0142211	.0294905
w1Agecent48	.0112945	.0011566	9.77	0.000	.0090276	.0135613
c.timew1w3#c.w1Agecent48	.0004122	.0002593	1.59	0.112	-.000096	.0009204
timew1w3	0	(omitted)				
Sex						
Men	.0950881	.0203907	4.66	0.000	.055123	.1350532
Sex#c.timew1w3						
Men	.0018903	.0045382	0.42	0.677	-.0070044	.010785
timew1w3	0	(omitted)				
Race						
AfrAm	.1635521	.0205791	7.95	0.000	.1232177	.2038864
Race#c.timew1w3						
AfrAm	-.0015006	.0046108	-0.33	0.745	-.0105377	.0075365
timew1w3	0	(omitted)				
PovStat						
Below	.0463766	.0212138	2.19	0.029	.0047981	.0879551
PovStat#c.timew1w3						
Below	.0004629	.0046311	0.10	0.920	-.0086139	.0095397
timew1w3	0	(omitted)				
w1edubr						
2	-.0604188	.0423827	-1.43	0.154	-.1435194	.0226818
3	-.0425051	.0462269	-0.92	0.358	-.1331571	.0481469
w1edubr#c.timew1w3						
2	-.006762	.0090981	-0.74	0.457	-.0245961	.0110721

	3	- .0099809	.0099819	-1.00	0.317	-.0295483	.0095866	
	timew1w3 w1WRATtotalcent42	0 (omitted)	-.0075347	.0014363	-5.25	0.000	-.0103499	-.0047196
c.timew1w3#c.w1WRATtotalcent42		-.000384	.0003187	-1.20	0.228	-.0010087	.0002407	
	timew1w3 1.w1smoke	0 (omitted)	-.0019749	.0234729	-0.08	0.933	-.0483792	.0444293
	w1smoke#c.timew1w3 1	.0023183	.0050723	0.46	0.648	-.007626	.0122627	
	timew1w3 1.w1currdrugs	0 (omitted)	.0407835	.0273797	1.49	0.137	-.0130741	.0946411
w1currdrugs#c.timew1w3 1		-.0047694	.0061489	-0.78	0.438	-.0168414	.0073025	
	timew1w3 w1hei2010_total_scorecent43	0 (omitted)	.0001842	.0009921	0.19	0.853	-.0018055	.0021739
c.timew1w3#c.w1hei2010_total_scorecent43		.0001309	.0002249	0.58	0.561	-.0003129	.0005747	
	timew1w3 w1BMIcontent30	0 (omitted)	.0019233	.0014692	1.31	0.191	-.0009577	.0048042
c.timew1w3#c.w1BMIcontent30		-.0004298	.0003186	-1.35	0.177	-.0010542	.0001946	
	timew1w3 w1SRH 2 3	0 (omitted)	-.080075	.0273271	-2.93	0.003	-.1336352	-.0265147
			-.0563254	.0293825	-1.92	0.055	-.1139147	.0012638
	w1SRH#c.timew1w3 2 3	0 (omitted)	.000692	.006162	0.11	0.911	-.0113855	.0127695
			-.0029565	.0065926	-0.45	0.654	-.0158778	.0099649
	timew1w3 w1CEScent15	0 (omitted)	.0017317	.0009542	1.81	0.070	-.0001385	.0036019
c.timew1w3#c.w1CEScent15		.0003219	.0002122	1.52	0.129	-.0000941	.0007379	
	timew1w3 w1dxHTN Yes	0 (omitted)	-.0093447	.023462	-0.40	0.691	-.0554598	.0367704
	w1dxHTN#c.timew1w3 Yes	0 (omitted)	.0045549	.0051779	0.88	0.379	-.0055969	.0147066
	timew1w3 w1dxDiabetes preDiabetes Diabetes	0 (omitted)	.0163151	.0266039	0.61	0.540	-.0358722	.0685024
			.0301364	.0334322	0.90	0.369	-.0360311	.096304
	w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	0 (omitted)	.0037065	.0058984	0.63	0.530	-.0078546	.0152676
			-.0011411	.0070511	-0.16	0.871	-.0149612	.012679
	timew1w3	0 (omitted)						

w1CVhighChol Yes	- .0282039	.0278166	-1.01	0.315	-.0840376	.0276298
w1CVhighChol#c.timew1w3 Yes	.0067937	.0058516	1.16	0.246	-.0046983	.0182857
timew1w3 1.w1cvdbr	0 .0145103	(omitted) .0278991	0.52	0.603	-.0403043	.0693248
w1cvdbr#c.timew1w3 1	.003481	.0066306	0.52	0.600	-.0095857	.0165476
timew1w3 invmillsmms	0 .0002519	(omitted) .0006258	0.40	0.687	-.0009747	.0014785
c.timew1w3#c.invmillsmms	-.0001355	.000128	-1.06	0.290	-.0003864	.0001155
timew1w3 zw1w3HCYTRAJ	0 .0332729	(omitted) .0160963	2.07	0.039	.0017247	.0648211
c.timew1w3#c.zw1w3HCYTRAJ	-.0068365	.00351	-1.95	0.051	-.013716	.0000429
Sex#c.zw1w3HCYTRAJ Men	-.0077157	.0203375	-0.38	0.704	-.0475764	.032145
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0080404	.0044236	1.82	0.069	-.0006298	.0167106
_cons	3.409228	.0515639	66.12	0.000	3.308096	3.51036

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0200927	.0066334	.0105201	.0383756
sd(_cons)	.2509032	.00776	.2361458	.266583
sd(Residual)	.2387084	.0076197	.2242316	.2541198

474 .
475 . 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##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ##Sex ///
> if sample4kobs==1 || HNDID: timew1w3, cov(un)

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 =	0.0467
	Largest FMI =	0.2651
DF adjustment:	Large sample	DF: min = 67.40
		avg = 1072380.63
		max = 3.27e+07
Model F test:	Equal FMI	F(45, 72159.3) = 19.09
		Prob > F = 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0117187	.0174249	0.67	0.501	-.0224569 .0458944
w1Agecent48	.0157457	.0018962	8.30	0.000	.0120291 .0194622
c.timew1w3#c.w1Agecent48	.0006726	.000391	1.72	0.085	-.0000937 .0014389
timew1w3	0 (omitted)				
Sex					
Men	.0693506	.0335371	2.07	0.039	.0036173 .1350838
Sex#c.timew1w3					
Men	-.0033581	.006869	-0.49	0.625	-.0168219 .0101058
timew1w3	0 (omitted)				
Race					
AfrAm	.3330603	.0338192	9.85	0.000	.2667752 .3993453
Race#c.timew1w3					
AfrAm	-.0011316	.0070023	-0.16	0.872	-.0148558 .0125927
timew1w3	0 (omitted)				
PovStat					
Below	.1005742	.0348419	2.89	0.004	.0322848 .1688636
PovStat#c.timew1w3					
Below	.0001726	.0070834	0.02	0.981	-.013711 .0140562
timew1w3	0 (omitted)				
w1edubr					
2	-.1155745	.0685536	-1.69	0.092	-.2499398 .0187908
3	-.1998378	.0741718	-2.69	0.007	-.345212 -.0544637
w1edubr#c.timew1w3					
2	-.0059575	.0141125	-0.42	0.673	-.033622 .021707
3	-.0062957	.0152939	-0.41	0.681	-.0362748 .0236834
timew1w3	0 (omitted)				
w1WRATtotalcent42	-.0243475	.0023817	-10.22	0.000	-.0290158 -.0196792
c.timew1w3#c.w1WRATtotalcent42	-.0001079	.0005018	-0.21	0.830	-.0010914 .0008757
timew1w3	0 (omitted)				
1.w1smoke	-.0063763	.0389985	-0.16	0.870	-.0837697 .0710171

w1smoke#c.timew1w3							
1	.0072908	.0082725	0.88	0.379	-.0090464	.023628	
timew1w3	0 (omitted)						
1.w1currdrugs	-.0299975	.0471755	-0.64	0.526	-.1236478	.0636528	
w1currdrugs#c.timew1w3							
1	-.0030287	.009751	-0.31	0.756	-.0222709	.0162135	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	.0008792	.0014886	0.59	0.556	-.0020629	.0038214	
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3	0 (omitted)						
w1BMIcon30	-.0005489	.0023649	-0.23	0.816	-.005184	.0040862	
c.timew1w3#c.w1BMIcon30							
timew1w3	0 (omitted)						
w1SRH							
2	-.1356898	.0451696	-3.00	0.003	-.2242301	-.0471495	
3	-.0752752	.0486935	-1.55	0.122	-.1707341	.0201838	
w1SRH#c.timew1w3							
2	.0022639	.0094709	0.24	0.811	-.0163001	.0208278	
3	-.0025194	.0102749	-0.25	0.806	-.0226646	.0176258	
timew1w3	0 (omitted)						
w1CEScent15							
timew1w3	0 (omitted)						
w1CEScent15	.0071116	.0016079	4.42	0.000	.0039563	.0102668	
c.timew1w3#c.w1CEScent15							
timew1w3	0 (omitted)						
w1dxHTN							
Yes	.0288269	.0373024	0.77	0.440	-.044341	.1019949	
w1dxHTN#c.timew1w3							
Yes	-.0034106	.007717	-0.44	0.659	-.0185357	.0117145	
timew1w3	0 (omitted)						
w1dxDiabetes							
preDiabetes	.0823794	.0428164	1.92	0.054	-.0015632	.166322	
Diabetes	.1103253	.0521299	2.12	0.035	.0078126	.212838	
w1dxDiabetes#c.timew1w3							
preDiabetes	-.0120888	.008885	-1.36	0.174	-.0295033	.0053256	
Diabetes	.0002191	.0109632	0.02	0.984	-.0212822	.0217204	
timew1w3	0 (omitted)						
w1CVhighChol							
Yes	-.0046921	.0404047	-0.12	0.908	-.0840996	.0747153	
w1CVhighChol#c.timew1w3							
Yes	-.0021994	.0085024	-0.26	0.796	-.0188639	.014465	
timew1w3	0 (omitted)						
1.w1cvdbr	-.0656364	.0443712	-1.48	0.139	-.1526553	.0213824	

w1cvdbr#c.timew1w3						
1	.0161932	.0094145	1.72	0.085	-.0022628	.0346493
timew1w3 invmillsmms	0 (omitted)	.0010257	-2.55	0.011	-.0046281	-.0006076
c.timew1w3#c.invmillsmms	-.0001897	.0004661	-0.41	0.684	-.0011032	.0007238
timew1w3 zw1w3HCYTRAJ	0 (omitted)	.0263886	-1.18	0.236	-.0829798	.0204617
c.timew1w3#c.zw1w3HCYTRAJ	.0064361	.005224	1.23	0.218	-.003803	.0166751
Sex#c.zw1w3HCYTRAJ Men	.0694159	.0334188	2.08	0.038	.0039162	.1349157
Sex#c.timew1w3#c.zw1w3HCYTRAJ Men	.0000238	.0066326	0.00	0.997	-.012976	.0130235
_cons	4.540835	.0838166	54.18	0.000	4.376508	4.705161

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0609458	.0131439	.0399348	.0930113
sd(_cons)	.4807626	.0219206	.4396594	.5257084
corr(timew1w3,_cons)	-.4752512	.047263	-.5625069	-.3775258
sd(Residual)	.2995045	.028281	.2488964	.3604028

```

476 .
477 .
478 . save, replace
      file finaldata_imputed_FINAL.dta saved

479 .
      end of do-file

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

481 .
482 . *****TABLE 3: HOMOCYSTEINE TRAJECTORY VS. COGNITIVE CHANGE OVER TIME: WHITE*****
483 .
484 .
485 .
486 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
487 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates          Imputations      =       5
Mixed-effects ML regression           Number of obs   =    1,142

```

Group variable: HNDID Number of groups = 605
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0000
 Largest FMI = 0.0000
 DF adjustment: Large sample DF: min = 1.08e+63
 avg = 1.08e+63
 max = .
 Model F test: Equal FMI F(11, 3.8e+65) = 6.35
 Prob > F = 0.0000

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0177576	.0230009	-0.77	0.440	-.0628386 .0273234
w1Agecent48	-.0126523	.00861	-1.47	0.142	-.0295277 .004223
c.timew1w3#c.w1Agecent48	-.00428	.0016688	-2.56	0.010	-.0075508 -.0010093
timew1w3	0	(omitted)			
Sex					
Men	-.5019768	.1585795	-3.17	0.002	-.812787 -.1911666
Sex#c.timew1w3					
Men	.067469	.0311128	2.17	0.030	.0064891 .128449
timew1w3	0	(omitted)			
Race					
White	0	(omitted)			
Race#c.timew1w3					
White	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-.5199918	.1724697	-3.01	0.003	-.8580262 -.1819573
PovStat#c.timew1w3					
Below	-.0322685	.0329823	-0.98	0.328	-.0969125 .0323756
timew1w3	0	(omitted)			
invmillsmms	.0108589	.0035396	3.07	0.002	.0039214 .0177964
c.timew1w3#c.invmillsmms	-.0019014	.0006218	-3.06	0.002	-.0031201 -.0006827
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.0498339	.0873677	-0.57	0.568	-.2210716 .1214037
c.timew1w3#c.zw1w3HCYTRAJ	.0061446	.0171119	0.36	0.720	-.0273941 .0396832
_cons	28.68028	.1151457	249.08	0.000	28.4546 28.90596

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1430651	.0774583	.0495081	.4134195
sd(_cons)	1.576118	.0971519	1.396757	1.778512
corr(timew1w3,_cons)	-.9495404	.3170282	-.9999998	.9997479
sd(Residual)	1.061474	.1054984	.8735939	1.289761

488 .
 489 .
 490 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4aobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,142

Group variable: **HNDID**

Number of groups	=	605
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	.
Largest FMI	=	.

DF adjustment: Large sample

<u>DF:</u>	min	=	0.00
	avg	=	.
	max	=	.

Model F test: Equal FMI

F(11, 2.2e+65)	=	6.09
Prob > F	=	0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.261694	.1983644	-1.32	0.187	-.6504812	.1270931
w1Agecent48	-.1345473	.0678393	-1.98	0.047	-.2675099	-.0015847
c.timew1w3#c.w1Agecent48	-.0382502	.0143188	-2.67	0.008	-.0663145	-.0101859
timew1w3	0	(omitted)				
Sex						
Men	-3.478514	1.249476	-2.78	0.005	-5.927441	-1.029587
Sex#c.timew1w3						
Men	.4712346	.2675699	1.76	0.078	-.0531928	.9956619
timew1w3	0	(omitted)				
Race						
White	0	(omitted)				
Race#c.timew1w3						
White	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	-4.305036	1.359736	-3.17	0.002	-6.97007	-1.640001
PovStat#c.timew1w3						

Below	- .4248885	.2822777	-1.51	0.132	- .9781427	.1283657
timew1w3 invmillsmms	0 (omitted) .0628617	.027928	2.25	0.024	.0081238	.1175996
c.timew1w3#c.invmillsmms	-.009425	.0052424	-1.80	0.072	-.0196999	.0008499
timew1w3 zw1w3HCYTRAJ	0 (omitted) -.3533556	.6887145	-0.51	0.608	-1.703211	.9965
c.timew1w3#c.zw1w3HCYTRAJ	.0262578	.1470124	0.18	0.858	-.2618812	.3143968
_cons	84.29321	.9070934	92.93	0.000	82.51534	86.07108

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.5106147	.1436163	.2942274	.8861427
sd(_cons)	11.39681	.	.	.
corr(timew1w3,_cons)	-1	4.23e-10	-1	-1
sd(Residual)	9.741404	.	.	.

```

491 .
492 .
493 .
494 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4bobs==1 & Race==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 = 1,027

Number of groups = 602
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0000
Largest FMI = 0.0000
DF: min = .
    avg = .
    max = .
F( 11, .) = 49.34
Prob > F = 0.0000

```

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-1.178163	.0908679	-12.97	0.000	-1.356261	-1.000065
w1Agecent48	-.1902695	.0327012	-5.82	0.000	-.2543627	-.1261763
c.timew1w3#c.w1Agecent48	-.0081265	.0065159	-1.25	0.212	-.0208976	.0046445
timew1w3		0 (omitted)				
Sex						
Men	-3.322743	.5950775	-5.58	0.000	-4.489074	-2.156413
Sex#c.timew1w3						

Men		-.0847252	.1204605	-0.70	0.482	-.3208234	.1513731
timew1w3			0 (omitted)				
Race							
White			0 (omitted)				
Race#c.timew1w3							
White			0 (omitted)				
timew1w3			0 (omitted)				
PovStat							
Below		-2.143288	.6366058	-3.37	0.001	-3.391012	-.8955633
PovStat#c.timew1w3							
Below		.005957	.1232643	0.05	0.961	-.2356366	.2475506
timew1w3			0 (omitted)				
invmillsmms		.0210125	.0122943	1.71	0.087	-.0030838	.0451089
c.timew1w3#c.invmillsmms		.0002673	.0021117	0.13	0.899	-.0038716	.0044063
timew1w3			0 (omitted)				
zw1w3HCYTRAJ		.5095904	.3214127	1.59	0.113	-.1203669	1.139548
c.timew1w3#c.zw1w3HCYTRAJ		-.0774696	.0644555	-1.20	0.229	-.2038002	.0488609
_cons		28.74204	.4358738	65.94	0.000	27.88774	29.59633

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.2689187	.2430434	.0457427	1.580957
sd(_cons)	5.33963	.2217843	4.922164	5.792503
sd(Residual)	3.871997	.2105578	3.480542	4.307477

```

495 .
496 .
497 .
498 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4cobs==1 & Race==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 = 969
Number of groups = 586
Obs per group:
    min = 1
    avg = 1.7
    max = 2
    Average RVI = 0.0000
    Largest FMI = 0.0000
    DF: min = 8.97e+61
        avg = 4.26e+63
        max = .
F( 11, 4.0e+64) = 28.96
Prob > F = 0.0000

```

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.3572331	.0437812	-8.16	0.000	-.4430427 -.2714235
w1Agecent48	-.0810852	.0150855	-5.38	0.000	-.1106522 -.0515182
c.timew1w3#c.w1Agecent48	-.0059422	.0031582	-1.88	0.060	-.0121322 .0002477
timew1w3	0 (omitted)				
Sex Men	-1.498933	.2740017	-5.47	0.000	-2.035966 -.9618995
Sex#c.timew1w3 Men	-.0510049	.0575733	-0.89	0.376	-.1638466 .0618367
timew1w3	0 (omitted)				
Race White	0 (omitted)				
Race#c.timew1w3 White	0 (omitted)				
timew1w3	0 (omitted)				
PovStat Below	-.6952864	.2914705	-2.39	0.017	-1.266558 -.1240148
PovStat#c.timew1w3 Below	-.0468281	.0587358	-0.80	0.425	-.1619483 .068292
timew1w3 invmillsmms	0 (omitted)				
	.0102079	.0055698	1.83	0.067	-.0007087 .0211244
c.timew1w3#c.invmillsmms	-.0002404	.0009715	-0.25	0.805	-.0021445 .0016636
timew1w3 zw1w3HCYTRAJ	0 (omitted)				
	.4079751	.1479591	2.76	0.006	.1179806 .6979696
c.timew1w3#c.zw1w3HCYTRAJ	-.0376368	.0312601	-1.20	0.229	-.0989055 .0236318
_cons	9.226519	.2010231	45.90	0.000	8.832521 9.620517

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.087235	.1654041	.002122	3.586187
sd(_cons)	2.379466	.1048847	2.182526	2.594178
sd(Residual)	1.806995	.0997087	1.621767	2.01338

```

499 .
500 .
501 .
502 . mi estimate: mixed BVRTot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4dobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =      5
Number of obs    = 1,181

Group variable: HNDID
Number of groups = 610
Obs per group:
min = 1
avg = 1.9
max = 2
Average RVI = 0.0000
Largest FMI = 0.0000
DF adjustment: Large sample
DF: min = 1.04e+60
      avg = 3.72e+63
      max =
Model F test: Equal FMI
F( 11, 6.6e+66) = 19.22
Prob > F = 0.0000

```

	BVRTot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.2902281	.0483608	6.00	0.000	.1954426	.3850136
w1Agecent48	.1304978	.0186811	6.99	0.000	.0938835	.167112
c.timew1w3#c.w1Agecent48	.0035742	.0034879	1.02	0.305	-.0032619	.0104103
timew1w3	0	(omitted)				
Sex						
Men	-.3975513	.3466477	-1.15	0.251	-1.076968	.2818657
Sex#c.timew1w3						
Men	.0943426	.0655018	1.44	0.150	-.0340386	.2227238
timew1w3	0	(omitted)				
Race						
White	0	(omitted)				
Race#c.timew1w3						
White	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	2.059352	.3741822	5.50	0.000	1.325969	2.792736
PovStat#c.timew1w3						
Below	-.0242794	.0685877	-0.35	0.723	-.1587087	.11015
timew1w3	0	(omitted)				
invmillsmms	-.0201345	.0077549	-2.60	0.009	-.0353338	-.0049353
c.timew1w3#c.invmillsmms	-.0001496	.0012915	-0.12	0.908	-.0026808	.0023817
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	.0818587	.1902266	0.43	0.667	-.2909787	.454696

c.timew1w3#c.zw1w3HCYTRAJ	.0478908	.0353158	1.36	0.175	-.0213269	.1171085
_cons	5.216925	.2511613	20.77	0.000	4.724658	5.709193

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1561444	.3404182	.0021766	11.20143
sd(_cons)	3.418252	.2147988	3.022148	3.866274
corr(timew1w3,_cons)	.4054136	1.407198	-.9935965	.9988508
sd(Residual)	2.377834	.230796	1.965906	2.876077

503 .

504 .

505 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat > c.timew1w3##c.zw1w3HCYTRAJ /// > if sample4eobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	1,056
Group variable: HNDID	Number of groups	=	601
	Obs per group:		
	min	=	1
	avg	=	1.8
	max	=	2
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
DF adjustment: Large sample	DF: min	=	1.81e+62
	avg	=	2.47e+64
	max	=	.
Model F test: Equal FMI	F(11, 1.3e+65)	=	5.07
	Prob > F	=	0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0700837	.0302197	-2.32	0.020	-.1293132 -.0108542
w1Agecent48	-.0112529	.0093539	-1.20	0.229	-.0295862 .0070805
c.timew1w3#c.w1Agecent48	-.0054052	.002126	-2.54	0.011	-.0095722 -.0012383
timew1w3	0 (omitted)				
Sex					
Men	-.4371513	.176368	-2.48	0.013	-.7828262 -.0914764
Sex#c.timew1w3					
Men	.0254093	.0404378	0.63	0.530	-.0538474 .1046659
timew1w3	0 (omitted)				
Race					
White	0 (omitted)				
Race#c.timew1w3					
White	0 (omitted)				
timew1w3	0 (omitted)				

PovStat Below	-.5205631	.1895562	-2.75	0.006	-.8920865	-.1490397
PovStat#c.timew1w3 Below	-.0322074	.0422472	-0.76	0.446	-.1150105	.0505956
timew1w3 invmillsmms	0 .0020006	(omitted) .0036757	0.54	0.586	-.0052038	.0092049
c.timew1w3#c.invmillsmms	-.00088	.0007522	-1.17	0.242	-.0023542	.0005942
timew1w3 zw1w3HCYTRAJ	0 -.1333321	(omitted) .0949605	-1.40	0.160	-.3194512	.052787
c.timew1w3#c.zw1w3HCYTRAJ	-.0152982	.0214053	-0.71	0.475	-.0572519	.0266556
_cons	7.673376	.1274972	60.18	0.000	7.423487	7.923266

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1576949	.1037293	.043442	.5724337
sd(_cons)	1.47443	.1472357	1.212338	1.793183
corr(timew1w3,_cons)	-.105865	.2890274	-.5909777	.4354812
sd(Residual)	1.305206	.1372973	1.062036	1.604053

506 .

507 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4fobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,185

Group variable: HNDID

Number of groups	=	610
Obs per group:		
min	=	1
avg	=	1.9
max	=	2

Average RVI = 0.0000
Largest FMI = 0.0000

DF adjustment: Large sample

DF:	min	=	1.87e+61
	avg	=	6.61e+64
	max	=	.

Model F test: Equal FMI

F(11, 1.4e+64)	=	6.01
Prob > F	=	0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.071925	.0641996	1.12	0.263	-.053904 .197754
w1Agecent48	-.1192277	.025	-4.77	0.000	-.1682268 -.0702285
c.timew1w3#c.w1Agecent48	-.0007061	.0046283	-0.15	0.879	-.0097773 .0083652
timew1w3	0	(omitted)			
Sex					
Men	.5808575	.4614982	1.26	0.208	-.3236623 1.485377
Sex#c.timew1w3					
Men	-.0246472	.0865263	-0.28	0.776	-.1942356 .1449412
timew1w3	0	(omitted)			
Race					
White	0	(omitted)			
Race#c.timew1w3					
White	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-2.545654	.5042935	-5.05	0.000	-3.534051 -1.557257
PovStat#c.timew1w3					
Below	.0350649	.0918653	0.38	0.703	-.1449878 .2151177
timew1w3	0	(omitted)			
invmillsmms	.0106166	.0103013	1.03	0.303	-.0095736 .0308069
c.timew1w3#c.invmillsmms	-.0014585	.0017204	-0.85	0.397	-.0048304 .0019134
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.2757117	.2554136	-1.08	0.280	-.7763132 .2248898
c.timew1w3#c.zw1w3HCYTRAJ	-.0090593	.0485066	-0.19	0.852	-.1041305 .0860118
_cons	20.78549	.3334747	62.33	0.000	20.13189 21.43909

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.2663284	.2646226	.0379899 1.867098
sd(_cons)	4.571376	.245972	4.11383 5.079811
corr(timew1w3,_cons)	-.112441	.226281	-.509534 .3241373
sd(Residual)	3.112126	.2439264	2.668951 3.62889

508 .
 509 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4gobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 1,157
Group variable: HNDID	Number of groups = 609
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0000
	Largest FMI = 0.0000
DF adjustment: Large sample	DF: min = 9.36e+56
	avg = 1.46e+64
	max = .
Model F test: Equal FMI	F(11, 3.7e+67) = 2.34
	Prob > F = 0.0072

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0041842	.0255857	0.16	0.870	-.0459628 .0543312
w1Agecent48	-.0167251	.009992	-1.67	0.094	-.0363092 .0028589
c.timew1w3##c.w1Agecent48	-.0011515	.0018336	-0.63	0.530	-.0047453 .0024422
timew1w3	0 (omitted)				
Sex					
Men	.2080014	.1851385	1.12	0.261	-.1548634 .5708662
Sex#c.timew1w3					
Men	.0013721	.0344619	0.04	0.968	-.066172 .0689163
timew1w3	0 (omitted)				
Race					
White	0 (omitted)				
Race#c.timew1w3					
White	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.6479235	.2010621	-3.22	0.001	-1.041998 -.253849
PovStat#c.timew1w3					
Below	-.0003899	.0363398	-0.01	0.991	-.0716145 .0708348
timew1w3	0 (omitted)				
invmillsmms	.0066429	.0041387	1.61	0.108	-.0014688 .0147546
c.timew1w3##c.invmillsmms	-.00048	.0006835	-0.70	0.482	-.0018198 .0008597
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.1529713	.1012413	-1.51	0.131	-.3514007 .045458
c.timew1w3##c.zw1w3HCYTRAJ	-.0101962	.0189533	-0.54	0.591	-.0473441 .0269516

_cons	7.868155	.1345489	58.48	0.000	7.604444	8.131866
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.186684	.051065	.1092124	.3191113
sd(_cons)	1.929004	.0885485	1.763031	2.110603
corr(timew1w3,_cons)	-.1198931	.1271695	-.3569229	.1316417
sd(Residual)	1.103158	.0908717	.9386871	1.296447

510 .

511 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4hobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	1,153
Group variable: HNDID	Number of groups	=	610
	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(11, 7.2e+65)	= 2.43	
	Prob > F	= 0.0051	

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0025922	.0255934	0.10	0.919	-.04757	.0527544
w1Agecent48	-.0193321	.0102641	-1.88	0.060	-.0394494	.0007852
c.timew1w3#c.w1Agecent48	-.0013659	.0018239	-0.75	0.454	-.0049408	.0022089
timew1w3		0 (omitted)				
Sex Men	-.0865196	.1901642	-0.45	0.649	-.4592346	.2861954
Sex#c.timew1w3 Men	.0104738	.034434	0.30	0.761	-.0570156	.0779631
timew1w3		0 (omitted)				
Race White		0 (omitted)				
Race#c.timew1w3 White		0 (omitted)				
timew1w3		0 (omitted)				
PovStat Below	-.614983	.2068099	-2.97	0.003	-1.020323	-.2096431

PovStat#c.timew1w3						
Below	-.0241456	.0362341	-0.67	0.505	-.0951632	.046872
timew1w3	0	(omitted)				
invmillsmms	.0064337	.0042494	1.51	0.130	-.0018951	.0147624
c.timew1w3#c.invmillsmms	-.0001947	.0006786	-0.29	0.774	-.0015247	.0011352
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.1260394	.1038046	-1.21	0.225	-.3294926	.0774138
c.timew1w3#c.zw1w3HCYTRAJ	-.0067175	.0186575	-0.36	0.719	-.0432856	.0298505
_cons	6.506397	.1381587	47.09	0.000	6.235611	6.777184

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0222384	.	.
sd(_cons)	1.892875	.	.
corr(timew1w3,_cons)	-.9999999	.	.
sd(Residual)	1.274018	.	.

```

512 .
513 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4iobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,191

Number of groups = 611
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI =
Largest FMI =
DF: min = 0.00
    avg =
    max =
F( 11, 3.2e+65) = 2.14
Prob > F = 0.0146

```

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.012548	.0182117	-0.69	0.491	-.0482422
w1Agecent48	-.0075009	.0049429	-1.52	0.129	-.0171888
c.timew1w3#c.w1Agecent48	-.0021392	.001305	-1.64	0.101	-.0046969
timew1w3	0	(omitted)			
Sex					
Men	.017107	.0914774	0.19	0.852	-.1621853
Sex#c.timew1w3					

Men	.0001812	.024494	0.01	0.994	-.0478262	.0481885
timew1w3	0 (omitted)					
Race						
White	0 (omitted)					
Race#c.timew1w3						
White	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.1247977	.0996936	-1.25	0.211	-.3201936	.0705982
PovStat#c.timew1w3						
Below	-.0250183	.0257828	-0.97	0.332	-.0755517	.0255152
timew1w3	0 (omitted)					
invmillsmms	-9.06e-06	.0020634	-0.00	0.996	-.0040533	.0040352
c.timew1w3#c.invmillsmms	-.0000737	.0004933	-0.15	0.881	-.0010407	.0008932
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	-.0805677	.0502839	-1.60	0.109	-.1791223	.0179868
c.timew1w3#c.zw1w3HCYTRAJ	-.0004093	.0133	-0.03	0.975	-.0264768	.0256581
_cons	9.07856	.0661944	137.15	0.000	8.948821	9.208298

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0196543	.	.
sd(_cons)	.6017938	.	.
corr(timew1w3,_cons)	.9999998	.	.
sd(Residual)	.9299577	.	.

514 .

515 . mi estimate: mixed LnTrailsAtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Pov
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4jobs==1 & Race==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 1,171

Group variable: HNDID

Number of groups = 604
 Obs per group:

min = 1
 avg = 1.9
 max = 2

Average RVI = 0.0000
 Largest FMI = 0.0000

DF adjustment: Large sample

DF: min = 4.05e+57
 avg = 1.21e+62

max = .

Model F test: Equal FMI

F(11, 6.6e+63) = 7.90
 Prob > F = 0.0000

LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0012039	.0041195	0.29	0.770	-.0068702 .009278
w1Agecent48	.0076199	.0014014	5.44	0.000	.0048732 .0103666
c.timew1w3#c.w1Agecent48	.0005991	.0002976	2.01	0.044	.0000157 .0011824
timew1w3	0	(omitted)			
Sex					
Men	.0595849	.026	2.29	0.022	.0086258 .1105439
Sex#c.timew1w3					
Men	.0077508	.0056006	1.38	0.166	-.0032263 .0187278
timew1w3	0	(omitted)			
Race					
White	0	(omitted)			
Race#c.timew1w3					
White	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	.0957766	.0282027	3.40	0.001	.0405004 .1510528
PovStat#c.timew1w3					
Below	-.0029571	.0058853	-0.50	0.615	-.0144921 .0085779
timew1w3	0	(omitted)			
invmillsmms	-.0004373	.0005769	-0.76	0.448	-.001568 .0006933
c.timew1w3#c.invmillsmms	-.0001267	.0001108	-1.14	0.253	-.0003439 .0000906
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.0415336	.0141844	2.93	0.003	.0137326 .0693345
c.timew1w3#c.zw1w3HCYTRAJ	-.0027104	.003017	-0.90	0.369	-.0086236 .0032027
_cons	3.287987	.0187338	175.51	0.000	3.251269 3.324704

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0271985	.0053072	.0185546 .0398692
sd(_cons)	.2474495	.0099427	.2287098 .2677246
sd(Residual)	.1862217	.0090358	.169328 .2048009

516 .
 517 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Pc
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4kobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations =	5
Mixed-effects ML regression	Number of obs =	1,141
Group variable: HNDID	Number of groups =	600
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0000
	Largest FMI =	0.0000
DF adjustment: Large sample	DF: min =	.
	avg =	.
	max =	.
Model F test: Equal FMI	F(11, .) =	8.81
	Prob > F =	0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0065584	.0057087	1.15	0.251	-.0046305 .0177473
w1Agecent48	.0115552	.0025088	4.61	0.000	.006638 .0164725
c.timew1w3#c.w1Agecent48	.0007687	.0004126	1.86	0.062	-.00004 .0015775
timew1w3	0	(omitted)			
Sex					
Men	.0811984	.0465212	1.75	0.081	-.0099814 .1723782
Sex#c.timew1w3					
Men	-.0052395	.0078048	-0.67	0.502	-.0205367 .0100576
timew1w3	0	(omitted)			
Race					
White	0	(omitted)			
Race#c.timew1w3					
White	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	.2691766	.0505105	5.33	0.000	.1701779 .3681752
PovStat#c.timew1w3					
Below	-.0065195	.0082749	-0.79	0.431	-.0227379 .0096989
timew1w3	0	(omitted)			
invmillsmms	-.003249	.0010323	-3.15	0.002	-.0052723 -.0012257
c.timew1w3#c.invmillsmms	-.0002147	.0006373	-0.34	0.736	-.0014637 .0010343
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.039806	.0253687	1.57	0.117	-.0099159 .0895278
c.timew1w3#c.zw1w3HCYTRAJ	-.0018773	.0042581	-0.44	0.659	-.0102229 .0064684

_cons	4.214502	.0335089	125.77	0.000	4.148826	4.280178
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0173705	.0044287	.0105389	.0286304
sd(_cons)	.4778525	.0187595	.4424635	.5160721
corr(timew1w3,_cons)	-.9999998	.0003992	-1	1
sd(Residual)	.2807442	.0087987	.2640181	.2985299

```

518 .
519 .
520 . save, replace
      file finaldata_imputed_FINAL.dta saved

521 .
522 .
523 . //MODEL 2: MODEL 1 + OTHER FACTORS + BODY MASS INDEX///
524 .
525 . 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 ///
> if sample4aobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,142
Number of groups = 605
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0300
Largest FMI = 0.1570
DF: min = 183.11
    avg = 1998237.22
    max = 5.09e+07
F( 25,80070.5) = 21.81
Prob > F = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	.1045131	.0621322	1.68	0.093	-.0173368 .226363
	w1Agecent48	-.0068049	.0068872	-0.99	0.323	-.0203036 .0066939
	c.timew1w3#c.w1Agecent48	-.0045296	.0016243	-2.79	0.005	-.0077132 -.0013461
	timew1w3	0 (omitted)				
	Sex					
	Men	-.439308	.1256181	-3.50	0.000	-.6855153 -.1931008
	Sex#c.timew1w3					
	Men	.0532287	.0302464	1.76	0.078	-.0060563 .1125138
	timew1w3	0 (omitted)				
	Race					

	White	0 (omitted)				
Race#c.timew1w3	White	0 (omitted)				
	timew1w3	0 (omitted)				
PovStat						
Below	.0546192	.1431423	0.38	0.703	-.2259396	.335178
PovStat#c.timew1w3	Below	-.0425085	.0338841	-1.25	0.210	-.1089209
	timew1w3	0 (omitted)				
w1edubr						
2	.4817768	.241594	1.99	0.046	.0081299	.9554237
3	.6442979	.2774319	2.32	0.020	.1002301	1.188366
w1edubr#c.timew1w3						
2	-.0836895	.0583191	-1.44	0.151	-.19805	.030671
3	-.044881	.066324	-0.68	0.499	-.1749022	.0851403
timew1w3	0 (omitted)					
w1WRATtotalcent42	.151568	.0096896	15.64	0.000	.1325765	.1705596
c.timew1w3#c.w1WRATtotalcent42						
timew1w3	0 (omitted)					
1.w1smoke	.1153496	.1559804	0.74	0.461	-.1924003	.4230995
w1smoke#c.timew1w3						
1	-.0690967	.0373357	-1.85	0.065	-.1424629	.0042694
timew1w3	0 (omitted)					
1.w1currdrugs	-.0291407	.1903284	-0.15	0.878	-.4022704	.3439889
w1currdrugs#c.timew1w3						
1	.0177756	.0471621	0.38	0.706	-.0749606	.1105118
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	-.0004838	.0057956	-0.08	0.934	-.0118979	.0109302
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3	0 (omitted)					
w1BMIcontent30	.0065738	.0088652	0.74	0.458	-.0108023	.0239498
c.timew1w3#c.w1BMIcontent30						
timew1w3	0 (omitted)					
invmillsmms	.0097603	.0027934	3.49	0.000	.0042854	.0152352
c.timew1w3#c.invmillsmms						
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	-.0018758	.0005952	-3.15	0.002	-.0030424	-.0007092
c.timew1w3#c.zw1w3HCYTRAJ						
_cons	27.43907	.2559006	107.23	0.000	26.93715	27.94098

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1067973	.0844304	.0226788	.502922
sd(_cons)	1.056163	.106336	.8670216	1.286566
corr(timew1w3,_cons)	-.9689395	1.40916	-1	1
sd(Residual)	1.04771	.0913468	.8831336	1.242956

526 .
 527 .
 528 . 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.w1BMIcon
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4aobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,142

Group variable: **HNDID**

Number of groups	=	605
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(25,49824.8)	=	18.26
Prob > F	=	0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.6037053	.5396301	1.12	0.263	-.4541262	1.661537
w1Agecent48	-.089658	.056516	-1.59	0.113	-.2004278	.0211117
c.timew1w3#c.w1Agecent48	-.0392855	.0142248	-2.76	0.006	-.0671658	-.0114051
timew1w3	0 (omitted)					
Sex						
Men	-3.008836	1.030434	-2.92	0.004	-5.028452	-.989221
Sex#c.timew1w3						
Men	.346705	.2652124	1.31	0.191	-.1731306	.8665406
timew1w3	0 (omitted)					
Race						
White	0 (omitted)					
Race#c.timew1w3						
White	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	.2199677	1.174877	0.19	0.851	-2.082789	2.522724

PovStat#c.timew1w3						
Below	- .3442068	.2965004	-1.16	0.246	-.925342	.2369285
timew1w3	0 (omitted)					
w1edubr						
2	4.094038	1.975401	2.07	0.038	.2217332	7.966342
3	6.285812	2.275978	2.76	0.006	1.82259	10.74903
w1edubr#c.timew1w3						
2	-.7794084	.506367	-1.54	0.124	-1.77201	.2131935
3	-.3650167	.5780309	-0.63	0.528	-1.498023	.7679897
timew1w3	0 (omitted)					
w1WRATtotalcent42	1.063319	.0794847	13.38	0.000	.9075297	1.219108
c.timew1w3#c.w1WRATtotalcent42	-.0467082	.023367	-2.00	0.046	-.0925219	-.0008945
timew1w3	0 (omitted)					
1.w1smoke	.1149317	1.281432	0.09	0.929	-2.413547	2.64341
w1smoke#c.timew1w3						
1	-.5646953	.322595	-1.75	0.080	-1.197738	.0683477
timew1w3	0 (omitted)					
1.w1currdrugs	.5527057	1.572897	0.35	0.725	-2.531808	3.637219
w1currdrugs#c.timew1w3						
1	.037085	.4273304	0.09	0.931	-.8074162	.8815862
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	-.000122	.0492885	-0.00	0.998	-.0976994	.0974553
c.timew1w3#c.w1hei2010_total_scorecent43	-.0041394	.012884	-0.32	0.748	-.0295589	.0212801
timew1w3	0 (omitted)					
w1BMIcon30	.0596945	.0727633	0.82	0.412	-.0829251	.2023141
c.timew1w3#c.w1BMIcon30	-.009664	.0185993	-0.52	0.603	-.0461184	.0267904
timew1w3	0 (omitted)					
invmillsmms	.0556459	.0229576	2.42	0.015	.0106499	.1006419
c.timew1w3#c.invmillsmms	-.0097199	.0051376	-1.89	0.059	-.0197894	.0003497
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	-.1966852	.5654921	-0.35	0.728	-1.305031	.9116607
c.timew1w3#c.zw1w3HCYTRAJ	.0664529	.1435011	0.46	0.643	-.2148063	.347712
_cons	74.53233	2.093538	35.60	0.000	70.42687	78.63778

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.2868816	.	.
sd(_cons)	7.637478	.	.
corr(timew1w3,_cons)	-.9999994	.	.
sd(Residual)	9.547797	.	.

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531 .

532 . 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 ///
 > if sample4bobs==1 & Race==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 1,027

Group variable: HNDID

Number of groups = 602

Obs per group:

min = 1
 avg = 1.7
 max = 2

Average RVI = 0.0845
 Largest FMI = 0.6711

DF adjustment: Large sample

DF: min = 10.60

avg = 36,293.04

max = 280,417.19

Model F test: Equal FMI

F(25, 11925.8) = 27.59

Prob > F = 0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.047321	.2290322	-4.57	0.000	-1.496229	-.5984123
w1Agecent48	-.1908508	.030046	-6.35	0.000	-.2497468	-.1319549
c.timew1w3#c.w1Agecent48	-.0075491	.006623	-1.14	0.254	-.0205306	.0054324
timew1w3	0 (omitted)					
Sex						
Men	-2.964446	.5413476	-5.48	0.000	-4.025492	-1.9034
Sex#c.timew1w3						
Men	-.1204254	.1216824	-0.99	0.322	-.358928	.1180772
timew1w3	0 (omitted)					
Race						
White	0 (omitted)					
Race#c.timew1w3						
White	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.3098669	.6050892	-0.51	0.609	-1.495846	.8761125

PovStat#c.timew1w3 Below		- .0268331	.1333057	-0.20	0.840	-.2881324	.2344661
	timew1w3		0 (omitted)				
w1edubr 2 3		-.1540182	.9717659	-0.16	0.874	-2.05882	1.750784
		3.231393	1.129497	2.86	0.004	1.016149	5.446637
w1edubr#c.timew1w3 2 3		-.0090882	.2113093	-0.04	0.966	-.4232715	.4050951
		-.2218825	.2476343	-0.90	0.370	-.7072696	.2635047
timew1w3 w1WRATtotalcent42		0 (omitted)					
		.2760222	.0415646	6.64	0.000	.1945406	.3575039
c.timew1w3#c.w1WRATtotalcent42		-.0025516	.0091818	-0.28	0.781	-.0205495	.0154464
timew1w3 1.w1smoke		0 (omitted)					
		.9074713	.7432421	1.22	0.232	-.6122052	2.427148
w1smoke#c.timew1w3 1		-.1002469	.1540614	-0.65	0.516	-.4047023	.2042084
timew1w3 1.w1currdrugs		0 (omitted)					
		-1.982862	.7954975	-2.49	0.013	-3.542484	-.4232402
w1currdrugs#c.timew1w3 1		-.0086779	.1890574	-0.05	0.963	-.3801036	.3627478
timew1w3 w1hei2010_total_scorecent43		0 (omitted)					
		.0310675	.0371886	0.84	0.422	-.0511646	.1132997
c.timew1w3#c.w1hei2010_total_scorecent43		-.0039411	.0066493	-0.59	0.556	-.0172461	.0093638
timew1w3 w1BMIcon30		0 (omitted)					
		.0451366	.038352	1.18	0.239	-.0300609	.1203341
c.timew1w3#c.w1BMIcon30		-.0082769	.0085577	-0.97	0.333	-.0250512	.0084973
timew1w3 invmillsmms		0 (omitted)					
		.015072	.0109715	1.37	0.170	-.0064319	.0365759
c.timew1w3#c.invmillsmms		.0003077	.002144	0.14	0.886	-.0038945	.00451
timew1w3 zw1w3HCYTRAJ		0 (omitted)					
		.4983128	.2894494	1.72	0.085	-.0690126	1.065638
c.timew1w3#c.zw1w3HCYTRAJ		-.0691645	.0645038	-1.07	0.284	-.195592	.0572631
_cons		25.96615	1.050359	24.72	0.000	23.90604	28.02625

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.4003008	.1477073	.1942115	.8250835
sd(_cons)	4.471344	.2086085	4.080614	4.899488
sd(Residual)	3.727235	.1993666	3.356219	4.139264

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536 . 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 ///
 > if sample4cobs==1 & Race==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

	Imputations =	5
Number of obs	=	969
Group variable: HNDID	Number of groups =	586
	Obs per group:	
	min =	1
	avg =	1.7
	max =	2
	Average RVI =	0.0674
	Largest FMI =	0.3690
DF adjustment: Large sample	DF: min =	35.73
	avg =	100,981.09
	max =	750,112.37
Model F test: Equal FMI	F(25, 18438.2) =	17.90
	Prob > F =	0.0000

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.2113923	.1089429	-1.94	0.052	-.4249761 .0021916
		-.0808914	.0142506	-5.68	0.000	-.1088247 -.0529581
c.timew1w3#c.w1Agecent48		-.0060342	.0031897	-1.89	0.059	-.0122859 .0002175
timew1w3		0	(omitted)			
Sex						
Men		-1.348949	.2556551	-5.28	0.000	-1.850025 -.8478722
Sex#c.timew1w3						
Men		-.0516276	.0584755	-0.88	0.377	-.1662527 .0629975
timew1w3		0	(omitted)			
Race						
White		0	(omitted)			
Race#c.timew1w3						
White		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		.0019234	.2862429	0.01	0.995	-.5591293 .562976

PovStat#c.timew1w3						
Below		-.0433252	.0630793	-0.69	0.492	-.1669702
timew1w3		0	(omitted)			
w1edubr						
2		.1986515	.4634006	0.43	0.668	-.709828
3		1.514418	.5276433	2.87	0.004	.48022
w1edubr#c.timew1w3						
2		-.0785045	.0991371	-0.79	0.428	-.2728281
3		-.1531123	.1169769	-1.31	0.191	-.3823957
timew1w3		0	(omitted)			
w1WRATtotalcent42		.1096696	.0195286	5.62	0.000	.0713903
c.timew1w3#c.w1WRATtotalcent42		-.0007273	.0042538	-0.17	0.864	-.0090647
timew1w3		0	(omitted)			
1.w1smoke		.3215447	.295609	1.09	0.277	-.259498
w1smoke#c.timew1w3						
1		-.0902231	.0772295	-1.17	0.247	-.2441896
timew1w3		0	(omitted)			
1.w1currdrugs		-.3940473	.3913489	-1.01	0.315	-1.164303
w1currdrugs#c.timew1w3						
1		-.1231754	.0918914	-1.34	0.182	-.3048264
timew1w3		0	(omitted)			
w1hei2010_total_scorecent43		.0130425	.0136625	0.95	0.346	-.0146737
c.timew1w3#c.w1hei2010_total_scorecent43		-.0017724	.0030459	-0.58	0.561	-.0077789
timew1w3		0	(omitted)			
w1BMIcon30		.0357892	.0177975	2.01	0.044	.0009068
c.timew1w3#c.w1BMIcon30		-.0054504	.0041063	-1.33	0.184	-.0134995
timew1w3		0	(omitted)			
invmillsmms		.0082134	.0051273	1.60	0.109	-.001836
c.timew1w3#c.invmillsmms		-.0004182	.0009773	-0.43	0.669	-.0023337
timew1w3		0	(omitted)			
zw1w3HCYTRAJ		.3905391	.1369125	2.85	0.004	.1221935
c.timew1w3#c.zw1w3HCYTRAJ		-.0322761	.0312113	-1.03	0.301	-.0934526
_cons		7.868386	.4894777	16.08	0.000	6.908998
						8.827775

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1307233	.1012015	.0286636	.5961757
sd(_cons)	2.076678	.1005125	1.888732	2.283328
sd(Residual)	1.758936	.0945475	1.583051	1.954363

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537 .
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539 .
540 . 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
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4dobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,181
Number of groups = 610
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI = 0.0286
    Largest FMI = 0.1624
    DF: min = 171.66
        avg = 1496076.91
        max = 1.60e+07
    F( 25, 90833.5) = 17.20
    Prob > F = 0.0000

```

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.3226804	.133578	2.42	0.016	.0608508	.58451
w1Agecent48	.123864	.0168659	7.34	0.000	.0908071	.1569209
c.timew1w3#c.w1Agecent48	.0035921	.0036286	0.99	0.322	-.0035201	.0107042
timew1w3	0 (omitted)					
Sex						
Men	-.529644	.309975	-1.71	0.088	-1.137187	.077899
Sex#c.timew1w3						
Men	.0880954	.0668947	1.32	0.188	-.0430217	.2192125
timew1w3	0 (omitted)					
Race						
White	0 (omitted)					
Race#c.timew1w3						
White	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	.8030303	.3507973	2.29	0.022	.1154802	1.49058
PovStat#c.timew1w3						
Below	-.0318485	.0745808	-0.43	0.669	-.1780259	.1143288
timew1w3	0 (omitted)					
w1edubr						
2	-.3242478	.5961816	-0.54	0.587	-1.493502	.845006
3	-1.042641	.6725994	-1.55	0.121	-2.361212	.2759292
w1edubr#c.timew1w3						

		2	- .0237491	.1257393	-0.19	0.850	-.2702185	.2227203
		3	-.0655524	.1447646	-0.45	0.651	-.349331	.2182262
	timew1w3		0	(omitted)				
	w1WRATTtotalcent42		-.2078291	.0236214	-8.80	0.000	-.2541282	-.16153
c.timew1w3#c.w1WRATTtotalcent42			.0014366	.0051255	0.28	0.779	-.0086115	.0114848
	timew1w3		0	(omitted)				
	1.w1smoke		.3654409	.3469403	1.05	0.292	-.3148507	1.045732
w1smoke#c.timew1w3			.0227233	.0804004	0.28	0.777	-.1348721	.1803187
	1							
	timew1w3		0	(omitted)				
	1.w1currdrugs		-.22046	.4855494	-0.45	0.650	-1.178876	.7379563
w1currdrugs#c.timew1w3			.0018832	.1039166	0.02	0.986	-.2019346	.2057011
	1							
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			-.0312014	.0130484	-2.39	0.017	-.0568128	-.0055901
c.timew1w3#c.w1hei2010_total_scorecent43			.0005015	.0033027	0.15	0.879	-.0060109	.0070139
	timew1w3		0	(omitted)				
w1BMIcon30			-.0133904	.0215961	-0.62	0.535	-.0557179	.0289371
c.timew1w3#c.w1BMIcon30			-.004028	.0048114	-0.84	0.403	-.0134584	.0054025
	timew1w3		0	(omitted)				
invmillsmms			-.0187637	.0068929	-2.72	0.006	-.0322734	-.0052539
c.timew1w3#c.invmillsmms			-.0000472	.0013107	-0.04	0.971	-.0026162	.0025218
	timew1w3		0	(omitted)				
zw1w3HCYTRAJ			.0218564	.1693916	0.13	0.897	-.3101485	.3538613
c.timew1w3#c.zw1w3HCYTRAJ			.0475397	.0359107	1.32	0.186	-.0228466	.1179261
	_cons		6.797333	.6212467	10.94	0.000	5.57917	8.015496

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1971538	.2898212	.0110519	3.517003
sd(_cons)	2.824597	.2323699	2.403978	3.318811
corr(timew1w3,_cons)	.3196759	1.126021	-.9719809	.9924761
sd(Residual)	2.346713	.2299016	1.936704	2.843522

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541 .
542 .
543 . 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 ///
> if sample4eobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,056
Number of groups = 601
Obs per group:
    min = 1
    avg = 1.8
    max = 2
    Average RVI = 0.0319
    Largest FMI = 0.2515
    DF: min = 74.53
        avg = 2892445.56
        max = 2.92e+07
    F( 25,69203.3) = 7.28
    Prob > F = 0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		- .0147442	.0811623	-0.18	0.856	-.1738354 .144347
w1Agecent48		- .0036883	.0090614	-0.41	0.684	-.0214483 .0140716
c.timew1w3#c.w1Agecent48		- .0061441	.0021804	-2.82	0.005	-.0104175 -.0018707
timew1w3		0	(omitted)			
Sex						
Men		-.4990472	.1702251	-2.93	0.003	-.8326987 -.1653957
Sex#c.timew1w3						
Men		.0450653	.0408714	1.10	0.270	-.0350422 .1251728
timew1w3		0	(omitted)			
Race						
White		0	(omitted)			
Race#c.timew1w3						
White		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		-.0780325	.190861	-0.41	0.683	-.4521132 .2960482
PovStat#c.timew1w3						
Below		-.0266656	.0456861	-0.58	0.559	-.1162087 .0628775
timew1w3		0	(omitted)			
w1edubr						
2		.4217436	.3192953	1.32	0.187	-.2040686 1.047556
3		.6111585	.3691452	1.66	0.098	-.1125596 1.334876
w1edubr#c.timew1w3						
2		-.0586628	.0754718	-0.78	0.437	-.2065916 .0892659

	3	- .1375208	.0877353	-1.57	0.117	-.3094863	.0344447
	timew1w3 w1WRATTtotalcent42	0 .0759406	(omitted) .0132956	5.71	0.000	.0498813	.1019999
c.timew1w3#c.w1WRATTtotalcent42		.0061702	.0032578	1.89	0.058	-.000215	.0125554
	timew1w3 1.w1smoke	0 -.2809785	(omitted) .195973	-1.43	0.152	-.6654683	.1035114
	w1smoke#c.timew1w3 1	.0013604	.0488063	0.03	0.978	-.094342	.0970629
	timew1w3 1.w1currdrugs	0 .1773126	(omitted) .2640582	0.67	0.502	-.3423977	.697023
w1currdrugs#c.timew1w3 1		-.0026656	.0634295	-0.04	0.966	-.1271571	.1218259
	timew1w3 w1hei2010_total_scorecent43	0 -.0082337	(omitted) .0081897	-1.01	0.318	-.0245502	.0080828
c.timew1w3#c.w1hei2010_total_scorecent43		.0026213	.0018874	1.39	0.165	-.0010796	.0063222
	timew1w3 w1BMIcon30	0 -.0272673	(omitted) .0118785	-2.30	0.022	-.0505513	-.0039833
c.timew1w3#c.w1BMIcon30		.0051889	.0028951	1.79	0.073	-.0004854	.0108631
	timew1w3 invmillsmms	0 .0020163	(omitted) .0034805	0.58	0.562	-.0048054	.0088379
c.timew1w3#c.invmillsmms		-.0009824	.0007568	-1.30	0.194	-.0024658	.0005009
	timew1w3 zw1w3HCYTRAJ	0 -.1244979	(omitted) .0899728	-1.38	0.166	-.3008417	.0518458
c.timew1w3#c.zw1w3HCYTRAJ		-.0139272	.0213766	-0.65	0.515	-.0558247	.0279702
	_cons	6.93024	.3356368	20.65	0.000	6.272403	7.588077

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1799599	.0868673	.069871	.4635052
sd(_cons)	1.349477	.1468995	1.090201	1.670415
corr(timew1w3,_cons)	-.2371386	.2026238	-.5800506	.1771695
sd(Residual)	1.260501	.1332986	1.024538	1.550808

544 .

```
545 . 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 ///
> if sample4fobs==1 & Race==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	1,185
Group variable: HNDID	Number of groups	=	610
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	0.0508
	Largest FMI	=	0.3700
DF adjustment: Large sample	DF: min	=	35.54
	avg	=	2224370.25
	max	=	5.62e+07
Model F test: Equal FMI	F(25, 29068.2)	=	8.74
	Prob > F	=	0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.131757	.1784233	0.74	0.460	-.2182005 .4817145
w1Agecent48	-.1150188	.0233152	-4.93	0.000	-.1607158 -.0693217
c.timew1w3#c.w1Agecent48	.000148	.0047522	0.03	0.975	-.0091661 .0094621
timew1w3	0 (omitted)				
Sex					
Men	.7597266	.426127	1.78	0.075	-.075472 1.594925
Sex#c.timew1w3					
Men	-.0395506	.0878361	-0.45	0.653	-.2117084 .1326073
timew1w3	0 (omitted)				
Race					
White	0 (omitted)				
Race#c.timew1w3					
White	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.995958	.488321	-2.04	0.041	-1.953051 -.0388651
PovStat#c.timew1w3					
Below	.0067924	.0993677	0.07	0.946	-.1879651 .20155
timew1w3	0 (omitted)				
w1edubr					
2	-.339949	.8070864	-0.42	0.674	-1.921832 1.241934
3	1.599372	.9310928	1.72	0.086	-.2261554 3.424899
w1edubr#c.timew1w3					
2	-.0810525	.1673588	-0.48	0.628	-.4093186 .2472137
3	-.1617682	.1957719	-0.83	0.409	-.5459474 .2224111

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1943818	.032838	5.92	0.000	.1300155	.258748
c.timew1w3#c.w1WRATtotalcent42		.0058773	.0068181	0.86	0.389	-.0074895	.0192442
	timew1w3	0	(omitted)				
	1.w1smoke	-.7649039	.5113391	-1.50	0.137	-1.77514	.2453322
w1smoke#c.timew1w3		.0619113	.1073378	0.58	0.564	-.1485671	.2723897
	timew1w3	0	(omitted)				
	1.w1currdrugs	.2161685	.6363665	0.34	0.734	-1.033732	1.466069
w1currdrugs#c.timew1w3		.0860516	.1358966	0.63	0.527	-.1807041	.3528074
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0337406	.0211164	1.60	0.119	-.0091049	.0765861
c.timew1w3#c.w1hei2010_total_scorecent43		-.0021332	.0041459	-0.51	0.607	-.0102648	.0059985
	timew1w3	0	(omitted)				
	w1BMICent30	.0310335	.0302897	1.02	0.306	-.0283418	.0904088
c.timew1w3#c.w1BMICent30		.0036553	.0062942	0.58	0.561	-.0086811	.0159917
	timew1w3	0	(omitted)				
	invmillsmms	.0081643	.0094449	0.86	0.388	-.0103554	.026684
c.timew1w3#c.invmillsmms		-.0014052	.0017325	-0.81	0.417	-.0048009	.0019905
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.1783789	.2353576	-0.76	0.449	-.6396845	.2829267
c.timew1w3#c.zw1w3HCYTRAJ		-.0089669	.0487797	-0.18	0.854	-.1045749	.0866411
	_cons	19.42024	.8582386	22.63	0.000	17.73732	21.10317

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.2423214	.2950465	.0222829	2.635191	
sd(_cons)	3.944994	.2572016	3.471762	4.482733	
corr(timew1w3,_cons)	-.074303	.3218921	-.6099529	.5079521	
sd(Residual)	3.126042	.2408771	2.687831	3.635697	

546 .

```
547 . 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.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Race==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations =	5
	Number of obs =	1,157
Group variable: HNDID	Number of groups =	609
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0696
	Largest FMI =	0.5237
DF adjustment: Large sample	DF: min =	17.87
	avg =	1186760.69
	max =	1.64e+07
Model F test: Equal FMI	F(25, 15835.2) =	11.77
	Prob > F =	0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	- .0053607	.0701693	-0.08	0.939	.1429003	.1321789
w1Agecent48	- .0081484	.0087552	-0.93	0.352	-.02531	.0090132
c.timew1w3##c.w1Agecent48	- .0007524	.0018884	-0.40	0.690	-.0044538	.002949
timew1w3	0 (omitted)					
Sex						
Men	.2156087	.1601991	1.35	0.178	-.0983863	.5296037
Sex##c.timew1w3						
Men	.0030702	.0348078	0.09	0.930	-.0651519	.0712923
timew1w3	0 (omitted)					
Race						
White	0 (omitted)					
Race##c.timew1w3						
White	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.0449732	.1816711	-0.25	0.804	-.4010502	.3111039
PovStat##c.timew1w3						
Below	.0103858	.0393006	0.26	0.792	-.0666455	.087417
timew1w3	0 (omitted)					
w1edubr						
2	-.2648989	.3081445	-0.86	0.390	-.8689442	.3391464
3	.428389	.3501434	1.22	0.221	-.258042	1.11482
w1edubr##c.timew1w3						
2	.0289212	.0654852	0.44	0.659	-.0994276	.1572699
3	-.0201795	.0758495	-0.27	0.790	-.1688482	.1284893

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1414902	.0123481	11.46	0.000	.1172861	.1656944
c.timew1w3#c.w1WRATtotalcent42		.0011249	.0027168	0.41	0.679	-.0041999	.0064496
	timew1w3	0	(omitted)				
	1.w1smoke	.4268694	.1821578	2.34	0.019	.0693405	.7843983
w1smoke#c.timew1w3		- .0265384	.0433739	-0.61	0.541	-.1117575	.0586807
	timew1w3	0	(omitted)				
	1.w1currdrugs	.09092	.3186337	0.29	0.779	-.5788647	.7607047
w1currdrugs#c.timew1w3		.0202732	.05488	0.37	0.712	-.0874569	.1280033
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.001774	.0070485	-0.25	0.802	-.0156608	.0121129
c.timew1w3#c.w1hei2010_total_scorecent43		.0006189	.0016279	0.38	0.704	-.0025726	.0038105
	timew1w3	0	(omitted)				
	w1BMICent30	-.0008287	.0112886	-0.07	0.941	-.0229574	.0213
c.timew1w3#c.w1BMICent30		-.0024273	.0025303	-0.96	0.337	-.0073875	.002533
	timew1w3	0	(omitted)				
	invmillsmms	.0057563	.0035624	1.62	0.106	-.0012261	.0127387
c.timew1w3#c.invmillsmms		-.0004057	.0006889	-0.59	0.556	-.001756	.0009445
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.1198912	.0865982	-1.38	0.166	-.2896205	.0498381
c.timew1w3#c.zw1w3HCYTRAJ		-.0088356	.0190386	-0.46	0.643	-.0461508	.0284796
	_cons	7.003501	.3260823	21.48	0.000	6.36405	7.642952

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.1774016	.0528533	.098937	.3180948	
sd(_cons)	1.522197	.0917586	1.35257	1.713097	
corr(timew1w3,_cons)	-.1475538	.1509977	-.4228694	.1526997	
sd(Residual)	1.118834	.0893362	.9567512	1.308374	

548 .

```
549 . 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.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 & Race==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	1,153
Group variable: HNDID	Number of groups	=	610
	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(25, 22700.9)	=	11.64
	Prob > F	=	0.0000

	DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0016742	.0711079	0.02	0.981	-.1377428	.1410913
w1Agecent48	-.0130027	.009009	-1.44	0.149	-.0306601	.0046547
c.timew1w3#c.w1Agecent48	-.0012978	.0018611	-0.70	0.486	-.0049454	.0023499
timew1w3	0 (omitted)					
Sex Men	-.0590294	.1658821	-0.36	0.722	-.3841592	.2661004
Sex#c.timew1w3 Men	.016475	.0347991	0.47	0.636	-.0517322	.0846822
timew1w3	0 (omitted)					
Race White	0 (omitted)					
Race#c.timew1w3 White	0 (omitted)					
timew1w3	0 (omitted)					
PovStat Below	.0424336	.1894915	0.22	0.823	-.3289903	.4138575
PovStat#c.timew1w3 Below	-.0253109	.0390408	-0.65	0.517	-.1018304	.0512087
timew1w3	0 (omitted)					
w1edubr 2	-.3462107	.3179186	-1.09	0.276	-.9693614	.2769401
3	.3037047	.3594615	0.84	0.398	-.4008318	1.008241
w1edubr#c.timew1w3 2	.0326502	.0658104	0.50	0.620	-.0963388	.1616392
3	-.0528334	.0757763	-0.70	0.486	-.2013532	.0956863

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1407363	.0129138	10.90	0.000	.1154177	.1660548
c.timew1w3#c.w1WRATtotalcent42		.0011795	.0027172	0.43	0.664	-.0041464	.0065053
	timew1w3	0	(omitted)				
	1.w1smoke	.1326792	.2226825	0.60	0.555	-.3182753	.5836336
w1smoke#c.timew1w3							
1		-.0118581	.046577	-0.25	0.800	-.1044509	.0807348
	timew1w3	0	(omitted)				
	1.w1currdrugs	.053479	.2408707	0.22	0.824	-.4186227	.5255807
w1currdrugs#c.timew1w3							
1		-.0013545	.053335	-0.03	0.980	-.1059252	.1032162
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0023965	.00865	0.28	0.784	-.0153241	.0201171
c.timew1w3#c.w1hei2010_total_scorecent43		.0007162	.0017895	0.40	0.690	-.0028357	.0042681
	timew1w3	0	(omitted)				
	w1BMICent30	-.0060803	.0117984	-0.52	0.606	-.0292177	.0170571
c.timew1w3#c.w1BMICent30		.0002688	.0025159	0.11	0.915	-.0046633	.005201
	timew1w3	0	(omitted)				
	invmillsmms	.0053799	.0036763	1.46	0.143	-.0018256	.0125853
c.timew1w3#c.invmillsmms		-.0001805	.0006823	-0.26	0.791	-.0015179	.0011568
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0817125	.0896701	-0.91	0.362	-.2574629	.0940379
c.timew1w3#c.zw1w3HCYTRAJ		-.0083082	.0186704	-0.44	0.656	-.0449016	.0282852
	_cons	5.838172	.3400727	17.17	0.000	5.171076	6.505267

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0206865	.	.
sd(_cons)	1.491981	.	.
corr(timew1w3,_cons)	-.9999999	.	.
sd(Residual)	1.269027	.	.

```

550 .
551 . 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.w1BMIconverg
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4iobs==1 & Race==1 || HNDID: timew1w3, cov(un)
convergence not achieved
model did not converge on m=3
r(498);

end of do-file

r(498);

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

553 . 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.w1BMIconverg
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4iobs==1 & Race==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 = 1,191
Number of groups = 611
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0311
Largest FMI = 0.2393
DF: min = 81.95
        avg = 759,632.21
        max = 8487732.01
F( 25,78333.1) = 3.85
Prob > F = 0.0000

```

		Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	- .0534128	.0501636	-1.06	0.287	-.1517625 .044937
	w1Agecent48	- .004807	.004927	-0.98	0.329	-.014464 .0048501
c.timew1w3##c.w1Agecent48		- .0024313	.0013468	-1.81	0.071	-.005071 .0002084
	timew1w3	0 (omitted)				
	Sex					
	Men	.0163993	.0897338	0.18	0.855	-.1594758 .1922743
	Sex##c.timew1w3					
	Men	.0044995	.0248196	0.18	0.856	-.0441461 .0531451
	timew1w3	0 (omitted)				
	Race					
	White	0 (omitted)				
	Race##c.timew1w3					
	White	0 (omitted)				
	timew1w3	0 (omitted)				
	PovStat					

	Below	.066547	.1025638	0.65	0.516	-.1344758	.2675699
PovStat#c.timew1w3	Below	-.0208123	.0277919	-0.75	0.454	-.0752835	.0336589
	timew1w3	0	(omitted)				
w1edubr							
2		-.218759	.1738705	-1.26	0.208	-.5595639	.1220458
3		.0440209	.19871	0.22	0.825	-.3454971	.433539
w1edubr#c.timew1w3							
2		.0580063	.0467062	1.24	0.214	-.0335416	.1495542
3		.0525002	.0541201	0.97	0.332	-.0535841	.1585845
timew1w3		0	(omitted)				
w1WRATtotalcent42		.0281395	.0069315	4.06	0.000	.0145536	.0417255
c.timew1w3#c.w1WRATtotalcent42		-.0010404	.001911	-0.54	0.586	-.0047861	.0027054
timew1w3		0	(omitted)				
1.w1smoke		-.0541769	.1178555	-0.46	0.647	-.288631	.1802773
w1smoke#c.timew1w3							
1		-.0022189	.0306036	-0.07	0.942	-.0623243	.0578865
timew1w3		0	(omitted)				
1.w1currdrugs		.3200318	.1515708	2.11	0.037	.0190254	.6210381
w1currdrugs#c.timew1w3							
1		-.0715384	.0385632	-1.86	0.064	-.1472706	.0041938
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0047943	.0040339	1.19	0.235	-.003117	.0127057
c.timew1w3#c.w1hei2010_total_scorecent43		.0000834	.0011733	0.07	0.943	-.0022199	.0023867
timew1w3		0	(omitted)				
w1BMIcon30		-.0000371	.0063656	-0.01	0.995	-.0125154	.0124412
c.timew1w3#c.w1BMIcon30							
timew1w3		0	(omitted)				
invmillsmms		.0001383	.0020185	0.07	0.945	-.003818	.0040945
c.timew1w3#c.invmillsmms							
timew1w3		0	(omitted)				
zw1w3HCYTRAJ		-.0624571	.0491523	-1.27	0.204	-.1587942	.0338799
c.timew1w3#c.zw1w3HCYTRAJ							
_cons		9.001796	.1845725	48.77	0.000	8.639857	9.363735

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.060137	.0365577	.0182679	.1979684
sd(_cons)	.5720186	.0446104	.4909375	.6664907
sd(Residual)	.9093312	.0355659	.8422278	.981781

554 .
555 . 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 ///
> if sample4jobs==1 & Race==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 = 1,171

Number of groups = 604
Obs per group:

min = 1
avg = 1.9
max = 2

Average RVI = 0.0445
Largest FMI = 0.3796

DF: min = 33.81
avg = 1214794.07
max = 1.92e+07

F(25, 38739.1) = 5.95
Prob > F = 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0087151	.0116616	0.75	0.455	-.0141719	.0316021
w1Agecent48	.0071125	.0013848	5.14	0.000	.0043984	.0098267
c.timew1w3#c.w1Agecent48	.0005712	.0003061	1.87	0.062	-.0000287	.0011711
timew1w3	0	(omitted)				
Sex Men	.0580341	.0254259	2.28	0.022	.0081996	.1078685
Sex#c.timew1w3 Men	.0073975	.0056446	1.31	0.190	-.0036657	.0184607
timew1w3	0	(omitted)				
Race White	0	(omitted)				
Race#c.timew1w3 White	0	(omitted)				
timew1w3	0	(omitted)				
PovStat Below	.0570295	.0289445	1.97	0.049	.0002984	.1137606
PovStat#c.timew1w3 Below	-.0076583	.0063346	-1.21	0.227	-.0200741	.0047574

	timew1w3	0 (omitted)				
w1edubr						
2	-.0848055	.0489908	-1.73	0.083	-.1808394	.0112284
3	-.0659323	.0551056	-1.20	0.232	-.1739413	.0420767
w1edubr#c.timew1w3						
2	-.0094659	.0108932	-0.87	0.385	-.0308347	.0119028
3	-.0139461	.0125897	-1.11	0.268	-.0386499	.0107577
timew1w3	0 (omitted)					
w1WRATtotalcent42						
c.timew1w3#c.w1WRATtotalcent42	-.009682	.0019537	-4.96	0.000	-.0135112	-.0058529
timew1w3	0 (omitted)					
1.w1smoke						
w1smoke#c.timew1w3						
1	.0084322	.0072197	1.17	0.244	-.0057926	.0226571
timew1w3	0 (omitted)					
1.w1currdrugs						
w1currdrugs#c.timew1w3						
1	-.0191876	.0385192	-0.50	0.619	-.0948709	.0564957
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43						
c.timew1w3#c.w1hei2010_total_scorecent43	-.0002945	.0012944	-0.23	0.821	-.0029257	.0023367
timew1w3	0 (omitted)					
w1BMIcon30						
c.timew1w3#c.w1BMIcon30						
timew1w3	0 (omitted)					
invmillsmms						
c.timew1w3#c.invmillsmms						
timew1w3	0 (omitted)					
zw1w3HCYTRAJ						
c.timew1w3#c.zw1w3HCYTRAJ						
_cons	3.401777	.0515301	66.02	0.000	3.300742	3.502812

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0259123	.0053698	.0172627	.0388958	
sd(_cons)	.233106	.0097437	.21477	.2530075	
sd(Residual)	.1867197	.00886	.1701374	.2049181	

556 .

```
557 . 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 ///
> if sample4kobs==1 & Race==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	1,141
Group variable: HNDID	Number of groups	=	600
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
DF adjustment: Large sample	Average RVI	=	.
	Largest FMI	=	.
	DF: min	=	0.00
	avg	=	.
	max	=	.
Model F test: Equal FMI	F(25, 32622.0)	=	12.96
	Prob > F	=	0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	- .0128439	.0159894	-0.80	0.422	-.044183	.0184951
w1Agecent48	.0098132	.0022894	4.29	0.000	.005326	.0143003
c.timew1w3#c.w1Agecent48	.0008154	.0004223	1.93	0.053	-.0000122	.0016431
timew1w3	0 (omitted)					
Sex						
Men	.0775799	.0419493	1.85	0.064	-.0046397	.1597995
Sex#c.timew1w3						
Men	-.0059832	.0078595	-0.76	0.447	-.0213882	.0094217
timew1w3	0 (omitted)					
Race						
White	0 (omitted)					
Race#c.timew1w3						
White	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	.1177932	.0477506	2.47	0.014	.0242037	.2113827
PovStat#c.timew1w3						
Below	-.0071937	.0089572	-0.80	0.422	-.0247499	.0103626
timew1w3	0 (omitted)					
w1edubr						
2	-.1489906	.0801231	-1.86	0.063	-.3060294	.0080483
3	-.2442658	.0922858	-2.65	0.008	-.425239	-.0632927
w1edubr#c.timew1w3						
2	.0269795	.0152507	1.77	0.077	-.0029113	.0568704
3	.0265646	.0175301	1.52	0.130	-.0077947	.0609238

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	-.0288984	.0032531	-8.88	0.000	-.0352748	-.022522
c.timew1w3#c.w1WRATtotalcent42		-.0000828	.000658	-0.13	0.900	-.0013725	.0012069
	timew1w3	0	(omitted)				
	1.w1smoke	.0193566	.0492555	0.39	0.695	-.0777357	.1164489
w1smoke#c.timew1w3		-.0050737	.0098535	-0.51	0.607	-.0244257	.0142783
	timew1w3	0	(omitted)				
	1.w1currdrugs	-.033617	.0665298	-0.51	0.614	-.1654683	.0982343
w1currdrugs#c.timew1w3		-.0074176	.0119726	-0.62	0.536	-.030891	.0160557
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0002203	.0018443	-0.12	0.905	-.0038619	.0034212
c.timew1w3#c.w1hei2010_total_scorecent43		-.0005224	.0003941	-1.33	0.186	-.0012995	.0002546
	timew1w3	0	(omitted)				
	w1BMICent30	.0008478	.002936	0.29	0.773	-.0049066	.0066023
c.timew1w3#c.w1BMICent30		-.0009759	.0005657	-1.73	0.085	-.0020849	.0001331
	timew1w3	0	(omitted)				
	invmillsmms	-.0031139	.0009265	-3.36	0.001	-.0049298	-.001298
c.timew1w3#c.invmillsmms		-8.35e-06	.0006138	-0.01	0.989	-.0012113	.0011946
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.0339874	.0227549	1.49	0.135	-.0106115	.0785863
c.timew1w3#c.zw1w3HCYTRAJ		-.0026157	.0042508	-0.62	0.538	-.0109473	.0057159
	_cons	4.530554	.0842888	53.75	0.000	4.365331	4.695776

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0193645	.	.
sd(_cons)	.4080388	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	.2772888	.	.

```

558 .
559 .
560 . save, replace
      file finaldata_imputed_FINAL.dta saved

561 .
562 .
563 .
      end of do-file

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

565 .
566 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
567 .
568 . 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##w1cvdbl c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,142

Number of groups = 605
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0285
Largest FMI = 0.1468
DF: min = 207.98
    avg = 2422871.63
    max = 8.50e+07
F( 41,168830.1) = 14.17
Prob > F = 0.0000

```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3 w1Agecent48	.0914856 -.0078929	.0744749 .0074266	1.23 -1.06	0.220 0.288	-.0546448 -.022449 .0066632
c.timew1w3##c.w1Agecent48	-.0051548	.0017529	-2.94	0.003	-.0085905 -.0017192
timew1w3	0	(omitted)			
Sex Men	-.4276998	.1300647	-3.29	0.001	-.6826229 -.1727768
Sex##c.timew1w3 Men	.0410481	.0310268	1.32	0.186	-.0197685 .1018646
timew1w3	0	(omitted)			
Race White	0	(omitted)			
Race##c.timew1w3 White	0	(omitted)			
timew1w3	0	(omitted)			

PovStat Below	.0909295	.1455678	0.62	0.532	-.1943838	.3762428
PovStat#c.timew1w3 Below	-.0411955	.0344101	-1.20	0.231	-.1086386	.0262476
timew1w3	0 (omitted)					
w1edubr 2	.5019123	.2415794	2.08	0.038	.028279	.9755456
3	.6591779	.2772496	2.38	0.017	.1155945	1.202761
w1edubr#c.timew1w3 2	-.0851947	.0585386	-1.46	0.146	-.2000122	.0296228
3	-.0448968	.0663425	-0.68	0.499	-.1749479	.0851543
timew1w3 w1WRATtotalcent42	0 (omitted)					
c.timew1w3#c.w1WRATtotalcent42	.1487951	.0098173	15.16	0.000	.1295535	.1680368
timew1w3 1.w1smoke	0 (omitted)					
.0974423	.1579808	0.62	0.538	-.2140067	.4088912	
w1smoke#c.timew1w3 1	-.065045	.0381453	-1.71	0.089	-.1400009	.0099108
timew1w3 1.w1currdrugs	0 (omitted)					
-.0064666	.190066	-0.03	0.973	-.3790421	.366109	
w1currdrugs#c.timew1w3 1	.0212527	.0478774	0.44	0.658	-.0730709	.1155763
timew1w3 w1hei2010_total_scorecent43	0 (omitted)					
c.timew1w3#c.w1hei2010_total_scorecent43	-.0012374	.0057506	-0.22	0.830	-.0125497	.0100748
timew1w3 w1BMIcon30	0 (omitted)					
.0056814	.0096188	0.59	0.555	-.0131717	.0245346	
c.timew1w3#c.w1BMIcon30	-.0004844	.0022962	-0.21	0.833	-.0049849	.0040161
timew1w3	0 (omitted)					
w1SRH 2	.1895379	.1763257	1.07	0.282	-.1560546	.5351305
3	.0481756	.1941489	0.25	0.804	-.3323538	.4287051
w1SRH#c.timew1w3 2	-.0200493	.0427731	-0.47	0.639	-.103884	.0637854
3	.0155721	.0477824	0.33	0.745	-.078105	.1092492
timew1w3 w1CEScent15	0 (omitted)					
c.timew1w3#c.w1CEScent15	-.0036641	.0060937	-0.60	0.548	-.0156078	.0082795
timew1w3	0 (omitted)					
w1dxHTN Yes	-.0118978	.1514878	-0.08	0.937	-.308837	.2850414

w1dxHTN#c.timew1w3 Yes		.002011	.0372994	0.05	0.957	-.0710979	.0751199
	timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes		-.1947743 -.0732	.1600992 .2001814	-1.22 -0.37	0.224 0.715	-.508584 -.4656037	.1190354 .3192038
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0925762 -.0391958	.0387006 .0491971	2.39 -0.80	0.017 0.426	.0167242 -.1356218	.1684282 .0572301
	timew1w3	0	(omitted)				
w1CVhighChol Yes		.1964468	.1502179	1.31	0.191	-.0981001	.4909937
w1CVhighChol#c.timew1w3 Yes		.045015	.0384296	1.17	0.242	-.0305271	.1205571
	timew1w3 1.w1cvdbr	0 -.0310827	(omitted) .1893828	-0.16	0.870	-.4023745	.3402092
w1cvdbr#c.timew1w3 1		-.0528797	.0470544	-1.12	0.261	-.1451991	.0394398
	timew1w3 invmillsmms	0 .0100863	(omitted) .0028011	3.60	0.000	.0045963	.0155764
c.timew1w3#c.invmillsmms		-.0019385	.0005992	-3.24	0.001	-.0031129	-.0007642
	timew1w3 zw1w3HCYTRAJ	0 -.0325677	(omitted) .0696729	-0.47	0.640	-.1691244	.1039889
c.timew1w3#c.zw1w3HCYTRAJ		.0087616	.016512	0.53	0.596	-.0236016	.0411247
	_cons	27.33426	.3007358	90.89	0.000	26.74462	27.9239

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.1107472	.0784902	.0276094	.4442309	
sd(_cons)	1.056802	.1032319	.8726588	1.279803	
corr(timew1w3,_cons)	-.9948386	1.23318	-1	1	
sd(Residual)	1.037492	.0885529	.8776716	1.226414	

```

569 .
570 .
571 . 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##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,142
Number of groups = 605
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI =
    Largest FMI =
DF: min = 0.00
    avg =
    max =
F( 41,92153.0) = 11.98
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.6939237	.6556671	1.06	0.290	.5925383	1.980386
w1Agecent48	-.1181323	.0608066	-1.94	0.052	-.2373129	.0010483
c.timew1w3##c.w1Agecent48	-.0417338	.0153702	-2.72	0.007	-.0718595	-.0116082
timew1w3	0 (omitted)					
Sex						
Men	-3.254151	1.063331	-3.06	0.002	-5.338242	-1.170061
Sex##c.timew1w3						
Men	.2906339	.272457	1.07	0.286	-.2434337	.8247015
timew1w3	0 (omitted)					
Race						
White	0 (omitted)					
Race##c.timew1w3						
White	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	.8137978	1.192765	0.68	0.495	-1.524043	3.151639
PovStat##c.timew1w3						
Below	-.3710218	.3015107	-1.23	0.218	-.9619748	.2199312
timew1w3	0 (omitted)					
w1edubr						
2	4.157871	1.969988	2.11	0.035	.2961081	8.019635
3	6.270856	2.263542	2.77	0.006	1.833386	10.70833
w1edubr##c.timew1w3						

		2	-.7590714	.508798	-1.49	0.136	-1.756562	.2384189
		3	-.3289481	.5779681	-0.57	0.569	-1.461777	.803881
	timew1w3		0	(omitted)				
w1WRATtotalcent42			1.038154	.0803039	12.93	0.000	.8807612	1.195547
c.timew1w3#c.w1WRATtotalcent42			-.0484163	.0237253	-2.04	0.041	-.0949353	-.0018973
	timew1w3		0	(omitted)				
1.w1smoke			.1156546	1.298121	0.09	0.929	-2.44459	2.675899
w1smoke#c.timew1w3								
1			-.5514327	.332293	-1.66	0.097	-1.203797	.1009313
	timew1w3		0	(omitted)				
1.w1currdrugs			.8753981	1.573254	0.56	0.578	-2.209859	3.960655
w1currdrugs#c.timew1w3								
1			.046491	.4349754	0.11	0.915	-.8157125	.9086945
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			-.0075644	.0484997	-0.16	0.876	-.1033219	.088193
c.timew1w3#c.w1hei2010_total_scorecent43			-.0020828	.0126384	-0.16	0.869	-.0269473	.0227817
	timew1w3		0	(omitted)				
w1BMIconcent30			.0395773	.0787832	0.50	0.615	-.1148431	.1939976
c.timew1w3#c.w1BMIconcent30			-.0052575	.0201545	-0.26	0.794	-.0447599	.0342449
	timew1w3		0	(omitted)				
w1SRH								
2			2.37839	1.443757	1.65	0.099	-.4513354	5.208116
3			1.572944	1.59452	0.99	0.324	-1.552436	4.698325
w1SRH#c.timew1w3								
2			-.3082249	.3767896	-0.82	0.413	-1.046739	.4302888
3			-.0781824	.423723	-0.18	0.854	-.909166	.7528012
	timew1w3		0	(omitted)				
w1CEScent15								
timew1w3			-.0487817	.049956	-0.98	0.329	-.146697	.0491336
c.timew1w3#c.w1CEScent15			.0089703	.0128599	0.70	0.485	-.0162366	.0341771
	timew1w3		0	(omitted)				
w1dxHTN								
Yes			.6381873	1.251226	0.51	0.610	-1.814964	3.091338
w1dxHTN#c.timew1w3								
Yes			-.1012709	.3284977	-0.31	0.758	-.745143	.5426012
	timew1w3		0	(omitted)				
w1dxDiabetes								
preDiabetes								
Diabetes			-.4552417	1.313255	-0.35	0.729	-3.029371	2.118887
w1dxDiabetes								
preDiabetes			-.3082096	1.655521	-0.19	0.852	-3.554443	2.938024
w1dxDiabetes#c.timew1w3								
preDiabetes								
Diabetes			.6065263	.3411279	1.78	0.075	-.0620772	1.27513
w1dxDiabetes								
preDiabetes								
Diabetes			-.4802553	.4358251	-1.10	0.271	-1.334537	.3740268

	timew1w3	0 (omitted)					
w1CVhighChol							
Yes	2.068745	1.247396	1.66	0.098	-.3790772	4.516567	
w1CVhighChol#c.timew1w3							
Yes	.3186696	.3455046	0.92	0.357	-.3624152	.9997544	
timew1w3		0 (omitted)					
1.w1cvdbr	-1.016229	1.560235	-0.65	0.515	-4.075895	2.043437	
w1cvdbr#c.timew1w3							
1	-.2604771	.4037426	-0.65	0.519	-1.051847	.5308925	
timew1w3		0 (omitted)					
invmillsmms	.0601263	.0229647	2.62	0.009	.0151163	.1051364	
c.timew1w3#c.invmillsmms		-.0104781	.0051787	-2.02	0.043	-.0206282	-.0003279
timew1w3		0 (omitted)					
zw1w3HCYTRAJ	-.1740074	.5699627	-0.31	0.760	-1.291114	.9430997	
c.timew1w3#c.zw1w3HCYTRAJ		.0569841	.144897	0.39	0.694	-.2270122	.3409803
_cons	72.42626	2.463129	29.40	0.000	67.59682	77.25569	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.3341701	.	.
sd(_cons)	7.566666	.	.
corr(timew1w3,_cons)	-.9999996	.	.
sd(Residual)	9.494574	.	.

572 .
 573 .
 574 .
 575 . 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 ///
 > if sample4bobs==1 & Race==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,027
Group variable: HNDID		
Number of groups	=	602
Obs per group:		
min =	1	
avg =	1.7	
max =	2	
Average RVI	=	0.0768
Largest FMI	=	0.6358
DF: min	=	11.91
avg	=	42,856.94
max	=	393,432.24
Model F test: Equal FMI	F(41, 26636.1)	= 18.67
	Prob > F	= 0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-1.002058	.2693352	-3.72	0.000	-1.529946 -.4741686
w1Agecent48		-.2064445	.0319118	-6.47	0.000	-.2690053 -.1438837
c.timew1w3#c.w1Agecent48		-.0107276	.0070405	-1.52	0.128	-.0245269 .0030718
	timew1w3	0	(omitted)			
Sex						
Men		-3.046923	.5577993	-5.46	0.000	-4.140286 -1.95356
Sex#c.timew1w3						
Men		-.2434084	.1249164	-1.95	0.051	-.4882581 .0014413
	timew1w3	0	(omitted)			
Race						
White		0	(omitted)			
Race#c.timew1w3						
White		0	(omitted)			
	timew1w3	0	(omitted)			
PovStat						
Below		.1153737	.6143681	0.19	0.851	-1.088858 1.319606
PovStat#c.timew1w3						
Below		.008763	.1345507	0.07	0.948	-.2550056 .2725315
	timew1w3	0	(omitted)			
w1edubr						
2		-.295184	.9580156	-0.31	0.758	-2.17296 1.582592
3		3.03687	1.116372	2.72	0.007	.8476 5.226139
w1edubr#c.timew1w3						
2		.0169396	.2099273	0.08	0.936	-.3945805 .4284598
3		-.2299333	.2463057	-0.93	0.351	-.7127939 .2529273
	timew1w3	0	(omitted)			
w1WRATtotalcent42						
		.2708927	.0415534	6.52	0.000	.1894485 .3523368
c.timew1w3#c.w1WRATtotalcent42						
		-.0054476	.0092705	-0.59	0.557	-.0236212 .012726
	timew1w3	0	(omitted)			
1.w1smoke		1.084936	.7808974	1.39	0.178	-.5334885 2.70336
w1smoke#c.timew1w3						
1		-.0764615	.1522977	-0.50	0.616	-.3765826 .2236595
	timew1w3	0	(omitted)			
1.w1currdrugs		-1.760883	.7870414	-2.24	0.025	-3.303791 -.2179751
w1currdrugs#c.timew1w3						
1		.0144692	.1868681	0.08	0.938	-.3526533 .3815917
	timew1w3	0	(omitted)			
w1hei2010_total_scorecent43						
		.0251451	.0353344	0.71	0.490	-.0519035 .1021937
c.timew1w3#c.w1hei2010_total_scorecent43						
		-.0035186	.0064835	-0.54	0.589	-.0164448 .0094075

	timew1w3	0	(omitted)				
w1BMIcon30		.0245744	.0411543	0.60	0.550	-.0560985	.1052473
c.timew1w3#c.w1BMIcon30		-.004724	.0093092	-0.51	0.612	-.022974	.013526
	timew1w3	0	(omitted)				
w1SRH							
2		1.683009	.7324947	2.30	0.022	.2473091	3.11871
3		1.702002	.8235759	2.07	0.039	.0868849	3.317119
w1SRH#c.timew1w3							
2		-.1399492	.1644378	-0.85	0.395	-.4622467	.1823483
3		.0180414	.1829503	0.10	0.921	-.3405455	.3766284
	timew1w3	0	(omitted)				
w1CEScent15		-.0440259	.0255339	-1.72	0.085	-.0940741	.0060224
c.timew1w3#c.w1CEScent15		-.0069367	.0056766	-1.22	0.222	-.018063	.0041896
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.5018683	.6441358	0.78	0.436	-.7612308	1.764967
w1dxHTN#c.timew1w3							
Yes		.1808022	.1482822	1.22	0.223	-.1098351	.4714395
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.2058381	.6743574	0.31	0.760	-1.116334	1.52801
Diabetes		1.649518	.8462809	1.95	0.052	-.0130048	3.31204
w1dxDiabetes#c.timew1w3							
preDiabetes		.1430992	.15175	0.94	0.346	-.1543281	.4405265
Diabetes		-.5247363	.190277	-2.76	0.006	-.8977252	-.1517475
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.1222717	.6336034	-0.19	0.847	-1.366735	1.122192
w1CVhighChol#c.timew1w3							
Yes		.18663	.1593216	1.17	0.243	-.1279243	.5011842
	timew1w3	0	(omitted)				
1.w1cvdbr		.6671813	.8771953	0.76	0.449	-1.080204	2.414566
w1cvdbr#c.timew1w3							
1		-.3439115	.1911306	-1.80	0.073	-.7196121	.0317891
	timew1w3	0	(omitted)				
invmillsmms		.0176357	.0108854	1.62	0.105	-.0036995	.0389708
c.timew1w3#c.invmillsmms		.0008277	.0021287	0.39	0.697	-.0033445	.0049999
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.5224772	.2887319	1.81	0.070	-.0434546	1.088409
c.timew1w3#c.zw1w3HCYTRAJ		-.0586994	.064421	-0.91	0.362	-.1849682	.0675694

	<u>_cons</u>	24.1151	1.265231	19.06	0.000	21.62939	26.60082
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3569524	.1588804	.1491723	.8541465
sd(_cons)	4.372191	.205191	3.987965	4.793436
sd(Residual)	3.693197	.1958206	3.328537	4.097807

576 .
 577 .
 578 .
 579 . 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
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4cobs==1 & Race==1 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 969

Group variable: HNDID

Number of groups = 586
 Obs per group:
 min = 1
 avg = 1.7
 max = 2
 Average RVI = 0.0631
 Largest FMI = 0.3744

DF adjustment: Large sample

DF: min = 34.72
 avg = 66,261.27
 max = 882,521.49

Model F test: Equal FMI

F(41, 38188.4) = 11.99
 Prob > F = 0.0000

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.3033102	.1294924	-2.34	0.019	-.5571202	-.0495002
w1Agecent48	-.0879036	.0152515	-5.76	0.000	-.1178042	-.058003
c.timew1w3#c.w1Agecent48	-.0072529	.0034051	-2.13	0.033	-.0139269	-.0005788
timew1w3	0 (omitted)					
Sex						
Men	-1.386149	.2644593	-5.24	0.000	-1.904486	-.867813
Sex#c.timew1w3						
Men	-.0898468	.0605033	-1.48	0.138	-.2084632	.0287696
timew1w3	0 (omitted)					
Race						
White	0 (omitted)					
Race#c.timew1w3						
White	0 (omitted)					
timew1w3	0 (omitted)					

PovStat Below	.1658794	.2912612	0.57	0.569	-.4049946	.7367534
PovStat#c.timew1w3 Below	-.0215638	.0638508	-0.34	0.736	-.1467204	.1035928
timew1w3	0 (omitted)					
w1edubr 2	.2002202	.4625736	0.43	0.665	-.7066706	1.107111
3	1.507818	.5292217	2.85	0.004	.470439	2.545197
w1edubr#c.timew1w3 2	-.0837061	.0987953	-0.85	0.397	-.2773748	.1099626
3	-.1750674	.1162893	-1.51	0.132	-.4030177	.052883
timew1w3 w1WRATtotalcent42	0 (omitted)					
c.timew1w3#c.w1WRATtotalcent42	.1041614	.01984	5.25	0.000	.0652733	.1430495
timew1w3 1.w1smoke	0 (omitted)					
w1smoke#c.timew1w3 1	.3405267	.3049721	1.12	0.265	-.2600633	.9411166
timew1w3 1.w1currdrugs	0 (omitted)					
w1currdrugs#c.timew1w3 1	-.3353911	.3996404	-0.84	0.403	-1.124261	.4534791
timew1w3 w1hei2010_total_scorecent43	0 (omitted)					
c.timew1w3#c.w1hei2010_total_scorecent43	.0120377	.0137114	0.88	0.386	-.015806	.0398813
timew1w3 w1BMIcon30	0 (omitted)					
c.timew1w3#c.w1BMIcon30	.0020516	.0030239	-0.68	0.498	-.0080114	.0039081
timew1w3 w1BMIcon30	0 (omitted)					
c.timew1w3#c.w1BMIcon30	.0269006	.0194199	1.39	0.166	-.0111622	.0649635
timew1w3 w1SRH	0 (omitted)					
w1SRH#timew1w3 2	.6487178	.3512006	1.85	0.065	-.0397076	1.337143
3	.3732615	.3959342	0.94	0.346	-.4036396	1.150163
timew1w3 w1CEScent15	0 (omitted)					
c.timew1w3#c.w1CEScent15	.0189899	.0792155	0.24	0.811	-.1362728	.1742525
3	.1448293	.0883952	1.64	0.101	-.0284334	.318092
timew1w3 w1CEScent15	0 (omitted)					
c.timew1w3#c.w1CEScent15	.0004045	.0027315	0.15	0.882	-.0049493	.0057584
timew1w3 w1dxHTN	0 (omitted)					
Yes	.4747153	.3051676	1.56	0.120	-.12352	1.072951

w1dxHTN#c.timew1w3 Yes		.0340627	.0710172	0.48	0.631	-.1051307	.173256
	timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes		-.0813351 .0906668	.3350829 .4297867	-0.24 0.21	0.808 0.833	-.7405176 -.7608882	.5778474 .9422219
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0637342 -.082638	.072641 .0898058	0.88 -0.92	0.380 0.358	-.078658 -.2586838	.2061264 .0934078
	timew1w3	0	(omitted)				
w1CVhighChol Yes		-.1604453	.2985642	-0.54	0.591	-.7460283	.4251376
w1CVhighChol#c.timew1w3 Yes		.1313464	.0722787	1.82	0.070	-.0105342	.273227
	timew1w3 1.w1cvdbr	0 .1716011	(omitted) .3805173	0.45	0.652	-.5751896	.9183918
w1cvdbr#c.timew1w3 1		-.105187	.0867635	-1.21	0.225	-.2753082	.0649342
	timew1w3 invmillsmms	0 .0100866	(omitted) .0051349	1.96	0.049	.0000223	.020151
c.timew1w3#c.invmillsmms		-.0003778	.0009749	-0.39	0.698	-.0022885	.0015329
	timew1w3 zw1w3HCYTRAJ	0 .4036614	(omitted) .1376349	2.93	0.003	.133897	.6734257
c.timew1w3#c.zw1w3HCYTRAJ		-.0285681	.0313436	-0.91	0.362	-.0900076	.0328715
	_cons	7.312189	.5895622	12.40	0.000	6.156069	8.468309

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0866497	.1556506	.0025626	2.929862	
sd(_cons)	2.045033	.0997158	1.85864	2.250118	
sd(Residual)	1.760003	.093355	1.586214	1.952832	

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580 .
581 .
582 .
583 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4dobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,181
Number of groups = 610
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0316
Largest FMI = 0.1723
DF: min = 153.30
    avg = 2601357.66
    max = 7.13e+07
F( 41, 138821.4) = 12.07
Prob > F = 0.0000

```

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.3079618	.1579519	1.95	0.051	-.0016499	.6175735
w1Agecent48	.120627	.0177598	6.79	0.000	.0858146	.1554394
c.timew1w3#c.w1Agecent48	.0066237	.0039091	1.69	0.090	-.0010385	.0142858
timew1w3	0	(omitted)				
Sex						
Men	-.4195981	.3115028	-1.35	0.178	-1.030138	.1909421
Sex#c.timew1w3						
Men	.0864097	.0683369	1.26	0.206	-.0475368	.2203563
timew1w3	0	(omitted)				
Race						
White	0	(omitted)				
Race#c.timew1w3						
White	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	.4325871	.348172	1.24	0.214	-.2498198	1.114994
PovStat#c.timew1w3						
Below	-.009885	.0753823	-0.13	0.896	-.1576327	.1378628
timew1w3	0	(omitted)				
w1edubr						
2	-.2844528	.5824019	-0.49	0.625	-1.42688	.8579745
3	-.817626	.6606717	-1.24	0.216	-2.112959	.4777067

w1edubr#c.timew1w3						
2	-.0377133	.1246372	-0.30	0.762	-.2820043	.2065777
3	-.1114239	.1444862	-0.77	0.441	-.3946399	.171792
timew1w3	0 (omitted)					
w1WRATtotalcent42	-.1983622	.0232514	-8.53	0.000	-.2439348	-.1527896
c.timew1w3#c.w1WRATtotalcent42	.0024297	.005147	0.47	0.637	-.0076592	.0125187
timew1w3	0 (omitted)					
1.w1smoke	.2765518	.3493124	0.79	0.429	-.4089781	.9620817
w1smoke#c.timew1w3						
1	.0318907	.0815098	0.39	0.696	-.1278785	.1916598
timew1w3	0 (omitted)					
1.w1currdrugs	-.2740034	.476805	-0.57	0.566	-1.21596	.6679533
w1currdrugs#c.timew1w3						
1	-.011964	.1034547	-0.12	0.908	-.2148973	.1909693
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	-.0284354	.0128455	-2.21	0.027	-.0536626	-.0032082
c.timew1w3#c.w1hei2010_total_scorecent43	.0005772	.0032356	0.18	0.859	-.0057892	.0069435
timew1w3	0 (omitted)					
w1BMIcontent30	-.0288056	.022921	-1.26	0.209	-.0737308	.0161196
c.timew1w3#c.w1BMIcontent30	.0004323	.005186	0.08	0.934	-.0097323	.0105969
timew1w3	0 (omitted)					
w1SRH						
2	-1.497356	.4265863	-3.51	0.000	-2.333456	-.661255
3	-1.598614	.4725972	-3.38	0.001	-2.524935	-.6722935
w1SRH#c.timew1w3						
2	.107247	.0952677	1.13	0.260	-.079475	.2939689
3	.1380277	.1052993	1.31	0.190	-.0683593	.3444147
timew1w3	0 (omitted)					
w1CEScent15						
.0324789	.0146107	2.22	0.026	.0038419	.061116	
c.timew1w3#c.w1CEScent15	-.0008731	.0032194	-0.27	0.786	-.0071831	.0054368
timew1w3	0 (omitted)					
w1dxHTN						
Yes	-.14508	.3717142	-0.39	0.696	-.874825	.5846651
w1dxHTN#c.timew1w3						
Yes	-.0732885	.0821112	-0.89	0.372	-.2342246	.0876475
timew1w3	0 (omitted)					
w1dxDiabetes						
preDiabetes	.0897707	.3927803	0.23	0.819	-.6806982	.8602397
Diabetes	-.0361082	.5003624	-0.07	0.943	-1.02121	.9489937
w1dxDiabetes#c.timew1w3						
preDiabetes	.043017	.0859067	0.50	0.617	-.1253592	.2113932
Diabetes	-.016444	.1097561	-0.15	0.881	-.231667	.198779

	timew1w3	0 (omitted)					
w1CVhighChol							
Yes	.1214742	.3457277	0.35	0.725	-.5565859	.7995343	
w1CVhighChol#c.timew1w3							
Yes	-.1354822	.0836516	-1.62	0.105	-.2995117	.0285473	
timew1w3		0 (omitted)					
1.w1cvdbr	1.054187	.4456447	2.37	0.018	.1793338	1.92904	
w1cvdbr#c.timew1w3							
1	-.1200511	.1049754	-1.14	0.253	-.3259563	.085854	
timew1w3		0 (omitted)					
invmillsmms	-.0211221	.0067256	-3.14	0.002	-.034304	-.0079403	
c.timew1w3#c.invmillsmms							
	-.0000379	.0013094	-0.03	0.977	-.0026042	.0025284	
timew1w3		0 (omitted)					
zw1w3HCYTRAJ	-.0747262	.1668133	-0.45	0.654	-.4016816	.2522292	
c.timew1w3#c.zw1w3HCYTRAJ							
	.0633352	.0361073	1.75	0.079	-.0074393	.1341098	
_cons	7.850472	.7293233	10.76	0.000	6.41932	9.281625	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.1892965	.2876738	.0096283 3.721657
sd(_cons)	2.691902	.2383067	2.263103 3.201947
corr(timew1w3,_cons)	.4443329	1.341831	-.9926216 .9989045
sd(Residual)	2.327861	.2300919	1.917872 2.825495

584 .

585 .

586 . 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.w1BMIcon > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms //> c.timew1w3##c.zw1w3HCYTRAJ //> if sample4eobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,056

Group variable: **HNDID**

Number of groups = 601
Obs per group:

min = 1
avg = 1.8
max = 2

Average RVI = 0.0479
Largest FMI = 0.2746

DF adjustment: Large sample

DF: min = 63.01
avg = 221,292.54
max = 2883097.14

Model F test: Equal FMI

F(41, 60909.7) = 5.05
Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0187032	.0969399	0.19	0.847	-.1713265 .2087329
w1Agecent48	-.0015915	.0097963	-0.16	0.871	-.0207931 .01761
c.timew1w3#c.w1Agecent48	-.0069788	.0023639	-2.95	0.003	-.0116119 -.0023457
timew1w3	0	(omitted)			
Sex					
Men	-.4453419	.1755647	-2.54	0.011	-.7894835 -.1012003
Sex#c.timew1w3					
Men	.0239257	.0418686	0.57	0.568	-.0581365 .1059878
timew1w3	0	(omitted)			
Race					
White	0	(omitted)			
Race#c.timew1w3					
White	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-.0047812	.1965163	-0.02	0.981	-.3899471 .3803847
PovStat#c.timew1w3					
Below	-.0217758	.0470423	-0.46	0.643	-.1139775 .0704259
timew1w3	0	(omitted)			
w1edubr					
2	.4272094	.3170694	1.35	0.178	-.1942371 1.048656
3	.5379121	.3683178	1.46	0.144	-.1841698 1.259994
w1edubr#c.timew1w3					
2	-.0582838	.0756125	-0.77	0.441	-.206497 .0899294
3	-.1301506	.0878931	-1.48	0.139	-.3024293 .0421281
timew1w3	0	(omitted)			
w1WRATtotalcent42	.0760503	.0135137	5.63	0.000	.0495636 .1025369
c.timew1w3#c.w1WRATtotalcent42	.0054721	.0032998	1.66	0.097	-.0009953 .0119395
timew1w3	0	(omitted)			
1.w1smoke	-.2201281	.1978571	-1.11	0.266	-.6082426 .1679865
w1smoke#c.timew1w3					
1	-.0154015	.0496722	-0.31	0.757	-.1128063 .0820033
timew1w3	0	(omitted)			
1.w1currdrugs	.1830299	.267113	0.69	0.494	-.3436018 .7096615
w1currdrugs#c.timew1w3					
1	.008363	.0638934	0.13	0.896	-.1171158 .1338418
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	-.0089219	.0079788	-1.12	0.266	-.0247549 .006911
c.timew1w3#c.w1hei2010_total_scorecent43	.0026426	.0018793	1.41	0.160	-.0010426 .0063278

	timew1w3	0	(omitted)				
w1BMIcon30		- .0180111	.0128268	-1.40	0.160	-.0431541	.007132
c.timew1w3#c.w1BMIcon30		.0042699	.0031352	1.36	0.173	-.0018752	.010415
	timew1w3	0	(omitted)				
w1SRH							
2		.4537981	.2387029	1.90	0.057	-.0140533	.9216495
3		.5767073	.2638161	2.19	0.029	.059631	1.093784
w1SRH#c.timew1w3							
2		-.02026	.0586766	-0.35	0.730	-.1352653	.0947454
3		-.0646946	.0655045	-0.99	0.323	-.1930905	.0637013
	timew1w3	0	(omitted)				
w1CEScent15		.0040615	.0082747	0.49	0.624	-.0121567	.0202797
c.timew1w3#c.w1CEScent15		-.0022331	.0019972	-1.12	0.264	-.0061474	.0016813
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.1907558	.2051056	0.93	0.352	-.2113816	.5928932
w1dxHTN#c.timew1w3							
Yes		-.0198017	.0505227	-0.39	0.695	-.1188284	.0792249
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.3920693	.2250812	-1.74	0.082	-.8346393	.0505006
Diabetes		-.4666911	.273283	-1.71	0.088	-1.003135	.0697533
w1dxDiabetes#c.timew1w3							
preDiabetes		.0639894	.0531979	1.20	0.229	-.0402809	.1682596
Diabetes		-.0168843	.0656232	-0.26	0.797	-.1455054	.1117367
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.0230411	.2132793	0.11	0.914	-.3980983	.4441804
w1CVhighChol#c.timew1w3							
Yes		.071839	.0532787	1.35	0.179	-.0330054	.1766835
	timew1w3	0	(omitted)				
1.w1cvdbr		-.1156892	.2905198	-0.40	0.692	-.696244	.4648656
w1cvdbr#c.timew1w3							
1		-.0910471	.0725427	-1.26	0.214	-.2358181	.0537239
	timew1w3	0	(omitted)				
invmillsmms		.0027822	.0034708	0.80	0.423	-.0040205	.0095848
c.timew1w3#c.invmillsmms		-.0009662	.0007591	-1.27	0.203	-.0024539	.0005216
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.1045504	.0901994	-1.16	0.246	-.2813385	.0722378
c.timew1w3#c.zw1w3HCYTRAJ		-.0149929	.0214987	-0.70	0.486	-.0571296	.0271437

	<u>_cons</u>	6.576462	.3962812	16.60	0.000	5.799761	7.353162
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1757483	.087136	.066506	.4644312
sd(_cons)	1.325793	.1469437	1.06692	1.647478
corr(timew1w3,_cons)	-.2358204	.2089861	-.587653	.1910107
sd(Residual)	1.252236	.1312853	1.019634	1.5379

587 .
 588 . 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.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4fobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,185

Group variable: **HNDID**

Number of groups	=	610
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0616
Largest FMI	=	0.3853

DF adjustment: Large sample

DF:	min	=	32.85
	avg	=	1422044.67
	max	=	5.71e+07

Model F test: Equal FMI

F(41, 38599.3)	=	5.60
Prob > F	=	0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.1641311	.2126758	0.77	0.440	-.2531616	.5814237
w1Agecent48	-.1287739	.0252502	-5.10	0.000	-.1782708	-.0792769
c.timew1w3#c.w1Agecent48	.0012679	.0051227	0.25	0.805	-.0087727	.0113086
timew1w3	0	(omitted)				
Sex Men	.51285	.4402693	1.16	0.244	-.3500722	1.375772
Sex#c.timew1w3 Men	-.0132851	.0896108	-0.15	0.882	-.1889196	.1623493
timew1w3	0	(omitted)				
Race White	0	(omitted)				
Race#c.timew1w3 White	0	(omitted)				
timew1w3	0	(omitted)				

PovStat Below		- .8274792	.4980575	-1.66	0.097	-1.803657	.1486982
PovStat#c.timew1w3 Below		- .0223722	.1010901	-0.22	0.825	-.2205073	.1757629
timew1w3		0	(omitted)				
w1edubr 2		- .2897478	.8066846	-0.36	0.719	-1.87086	1.291364
3		1.640976	.9322955	1.76	0.078	-.1867928	3.468744
w1edubr#c.timew1w3 2		- .0991604	.1672772	-0.59	0.553	-.427289	.2289682
3		-.1677509	.195555	-0.86	0.391	-.5514592	.2159574
timew1w3 w1WRATtotalcent42		0	(omitted)				
		.1816872	.0333989	5.44	0.000	.1162177	.2471568
c.timew1w3#c.w1WRATtotalcent42		.0075501	.0069265	1.09	0.276	-.0060319	.0211321
timew1w3 1.w1smoke		0	(omitted)				
		-.679121	.5251965	-1.29	0.198	-1.71902	.3607779
w1smoke#c.timew1w3 1		.045628	.1099778	0.41	0.678	-.1701449	.2614008
timew1w3 1.w1currdrugs		0	(omitted)				
		.3577706	.629278	0.57	0.570	-.8770662	1.592607
w1currdrugs#c.timew1w3 1		.0772813	.1367748	0.57	0.572	-.1914053	.3459679
timew1w3 w1hei2010_total_scorecent43		0	(omitted)				
		.0314607	.0212945	1.48	0.149	-.0118707	.0747921
c.timew1w3#c.w1hei2010_total_scorecent43		-.0022203	.0041983	-0.53	0.597	-.0104632	.0060225
timew1w3 w1BMIcon30		0	(omitted)				
		.0223552	.0327509	0.68	0.495	-.0418491	.0865596
c.timew1w3#c.w1BMIcon30		.003115	.0067926	0.46	0.647	-.0101984	.0164285
timew1w3		0	(omitted)				
w1SRH 2		-.2521207	.5951455	-0.42	0.672	-1.418587	.9143451
3		-.0882127	.6598038	-0.13	0.894	-1.38141	1.204985
w1SRH#c.timew1w3 2		-.017762	.1239027	-0.14	0.886	-.2606069	.2250829
3		.0143955	.1377857	0.10	0.917	-.2556638	.2844547
timew1w3 w1CEScent15		0	(omitted)				
		-.0472757	.0205846	-2.30	0.022	-.0876211	-.0069302
c.timew1w3#c.w1CEScent15		.0068251	.0042385	1.61	0.107	-.0014823	.0151326
timew1w3		0	(omitted)				
w1dxHTN Yes		.4308769	.5179044	0.83	0.406	-.5852701	1.447024

w1dxHTN#c.timew1w3 Yes		-.0524495	.1092866	-0.48	0.631	-.2666833	.1617842
	timew1w3		0 (omitted)				
w1dxDiabetes preDiabetes Diabetes		.2050328	.5452147	0.38	0.707	-.86409	1.274156
		-.1285158	.6681247	-0.19	0.847	-1.438227	1.181195
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		-.029531	.1134053	-0.26	0.795	-.2518146	.1927526
	timew1w3		0 (omitted)				
w1CVhighChol Yes		.2557461	.56612	0.45	0.653	-.8825158	1.394008
w1CVhighChol#c.timew1w3 Yes		.0308636	.1202023	0.26	0.798	-.2069056	.2686327
	timew1w3 1.w1cvdbr		0 (omitted)				
		.3248072	.6500598	0.50	0.618	-.955879	1.605493
w1cvdbr#c.timew1w3 1		-.1946165	.1458071	-1.33	0.184	-.4821724	.0929395
	timew1w3 invmillsmms		0 (omitted)				
		.0098819	.009468	1.04	0.297	-.0086751	.0284389
c.timew1w3#c.invmillsmms		-.0017184	.0017344	-0.99	0.322	-.0051177	.0016809
	timew1w3 zw1w3HCYTRAJ		0 (omitted)				
		-.1870742	.237264	-0.79	0.430	-.6521083	.2779599
c.timew1w3#c.zw1w3HCYTRAJ		-.0154627	.049128	-0.31	0.753	-.1117528	.0808275
	_cons	19.23717	1.018717	18.88	0.000	17.23923	21.23511

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.2219417	.3225196	.0128613	3.829958
sd(_cons)	3.921697	.2569637	3.449044	4.459122
corr(timew1w3,_cons)	-.0385244	.3915603	-.6680095	.6230977
sd(Residual)	3.112503	.2413641	2.673599	3.623459

589 .

```
590 . 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.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Race==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates Imputations = 5
 Mixed-effects ML regression Number of obs = 1,157

Group variable: HNDID Number of groups = 609
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0629
 Largest FMI = 0.5063
 DF adjustment: Large sample DF: min = 19.13
 avg = 206,657.56
 max = 3845132.83

Model F test: Equal FMI F(41, 36425.4) = 7.69
 Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.0346295	.0832284	-0.42	0.677	-.1977779 .128519
w1Agecent48		-.0087611	.0094596	-0.93	0.354	-.0273064 .0097841
c.timew1w3##c.w1Agecent48		-.0020513	.0020413	-1.00	0.315	-.0060523 .0019497
timew1w3		0	(omitted)			
Sex						
Men		.2490962	.1659537	1.50	0.133	-.0761985 .574391
Sex##c.timew1w3						
Men		-.0180314	.0359368	-0.50	0.616	-.0884672 .0524043
timew1w3		0	(omitted)			
Race						
White		0	(omitted)			
Race##c.timew1w3						
White		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		-.0795099	.1848016	-0.43	0.667	-.4417212 .2827014
PovStat##c.timew1w3						
Below		.025347	.0401039	0.63	0.527	-.0532583 .1039523
timew1w3		0	(omitted)			
w1edubr						
2		-.2147247	.3079761	-0.70	0.486	-.8184567 .3890073
3		.512761	.3524834	1.45	0.146	-.178337 1.203859
w1edubr##c.timew1w3						
2		.0184625	.0655642	0.28	0.778	-.1100411 .1469662

	3		- .0230775	.0761533	-0.30	0.762	-.1723445	.1261894
		timew1w3	0	(omitted)				
	w1WRATTtotalcent42		.1387796	.0125445	11.06	0.000	.1141898	.1633694
c.timew1w3#c.w1WRATTtotalcent42			.0008147	.0027523	0.30	0.767	-.0045797	.0062091
		timew1w3	0	(omitted)				
	1.w1smoke		.3809107	.18575	2.05	0.041	.0161989	.7456226
	w1smoke#c.timew1w3							
	1		-.0264045	.0443488	-0.60	0.552	-.1135677	.0607586
		timew1w3	0	(omitted)				
	1.w1currdrugs		.0779028	.3139322	0.25	0.807	-.5788564	.734662
	w1currdrugs#c.timew1w3							
	1		.0261192	.0550704	0.47	0.635	-.0820139	.1342523
		timew1w3	0	(omitted)				
w1hei2010_total_scorecent43			-.0015752	.0072111	-0.22	0.827	-.0158359	.0126856
c.timew1w3#c.w1hei2010_total_scorecent43			.0006625	.0016344	0.41	0.685	-.0025424	.0038673
		timew1w3	0	(omitted)				
	w1BMIcon30		-.0016578	.0124766	-0.13	0.894	-.0261362	.0228206
c.timew1w3#c.w1BMIcon30			-.003798	.0027609	-1.38	0.169	-.0092106	.0016145
		timew1w3	0	(omitted)				
	w1SRH							
	2		-.0811844	.2260494	-0.36	0.719	-.5242526	.3618838
	3		-.3509089	.2512171	-1.40	0.163	-.8433802	.1415623
	w1SRH#c.timew1w3							
	2		.0230271	.0499178	0.46	0.645	-.0748103	.1208644
	3		.0008532	.055563	0.02	0.988	-.1080505	.1097569
		timew1w3	0	(omitted)				
	w1CEScent15							
	timew1w3		-.000864	.0077213	-0.11	0.911	-.0159975	.0142696
c.timew1w3#c.w1CEScent15			-.0018723	.0017016	-1.10	0.271	-.0052076	.0014631
		timew1w3	0	(omitted)				
	w1dxHTN							
	Yes		.1213485	.1991164	0.61	0.543	-.2698676	.5125647
	w1dxHTN#c.timew1w3							
	Yes		.0305558	.0446424	0.68	0.494	-.0569976	.1181091
		timew1w3	0	(omitted)				
	w1dxDiabetes							
	preDiabetes		-.3275295	.20778	-1.58	0.115	-.7352983	.0802393
	Diabetes		-.3650496	.2571316	-1.42	0.156	-.8696383	.1395391
	w1dxDiabetes#c.timew1w3							
	preDiabetes		.0914319	.0457054	2.00	0.046	.0018295	.1810343
	Diabetes		.0163542	.0587364	0.28	0.781	-.0988652	.1315736
		timew1w3	0	(omitted)				

w1CVhighChol Yes	.1147377	.1942476	0.59	0.555	-.2681856	.4976609
w1CVhighChol#c.timew1w3 Yes	.0126168	.043757	0.29	0.773	-.0731649	.0983984
timew1w3 1.w1cvdbr	0 -.2266953	(omitted) .2294581	-0.99	0.323	-.6764323	.2230416
w1cvdbr#c.timew1w3 1	-.0200538	.0538403	-0.37	0.710	-.125583	.0854754
timew1w3 invmillsmms	0 .0062088	(omitted) .0035681	1.74	0.082	-.0007847	.0132023
c.timew1w3#c.invmillsmms	-.0003018	.0006929	-0.44	0.663	-.0016598	.0010563
timew1w3 zw1w3HCYTRAJ	0 -.1423562	(omitted) .0876553	-1.62	0.104	-.3141585	.0294461
c.timew1w3#c.zw1w3HCYTRAJ	-.0076467	.0192215	-0.40	0.691	-.0453203	.0300268
_cons	7.21191	.3850502	18.73	0.000	6.456583	7.967237

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.1801995	.0520278	.1023273 .3173333
sd(_cons)	1.518501	.0916175	1.349141 1.709122
corr(timew1w3,_cons)	-.1572435	.1466825	-.4246438 .1353893
sd(Residual)	1.104602	.0899815	.9415997 1.295822

591 .
 592 . 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.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4hobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,153

Group variable: **HNDID**

Number of groups	=	610
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(41,30018.2)	=	7.37
Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0432297	.0834663	0.52	0.605	-.1204126 .206872
w1Agecent48	-.0114906	.0099581	-1.15	0.249	-.0310228 .0080415
c.timew1w3#c.w1Agecent48	-.0023512	.0020336	-1.16	0.248	-.0063375 .001635
timew1w3	0 (omitted)				
Sex Men	-.0752308	.1724041	-0.44	0.663	-.4131523 .2626908
Sex#c.timew1w3 Men	.0002391	.0355941	0.01	0.995	-.0695243 .0700025
timew1w3	0 (omitted)				
Race White	0 (omitted)				
Race#c.timew1w3 White	0 (omitted)				
timew1w3	0 (omitted)				
PovStat Below	.047274	.1943021	0.24	0.808	-.3335962 .4281442
PovStat#c.timew1w3 Below	-.022317	.0398177	-0.56	0.575	-.1003588 .0557248
timew1w3	0 (omitted)				
w1edubr 2	-.3656809	.3178429	-1.15	0.250	-.9886597 .2572979
3	.2735773	.3614992	0.76	0.449	-.4349483 .9821029
w1edubr#c.timew1w3 2	.036363	.0658588	0.55	0.581	-.0927216 .1654476
3	-.0390902	.075868	-0.52	0.606	-.1877894 .1096089
timew1w3	0 (omitted)				
w1WRATtotalcent42	.1421656	.0132255	10.75	0.000	.1162287 .1681024
c.timew1w3#c.w1WRATtotalcent42	.0007265	.0027347	0.27	0.790	-.0046335 .0060865
timew1w3	0 (omitted)				
1.w1smoke	.1514076	.2255126	0.67	0.506	-.304604 .6074192
w1smoke#c.timew1w3 1	-.0163563	.0466705	-0.35	0.727	-.1088923 .0761796
timew1w3	0 (omitted)				
1.w1currdrugs	.0330849	.2421935	0.14	0.891	-.4416159 .5077856
w1currdrugs#c.timew1w3 1	-.0021836	.053307	-0.04	0.967	-.1067032 .102336
timew1w3	0 (omitted)				
w1hei2010_total_scorecent43	.002394	.0088068	0.27	0.788	-.0157358 .0205239
c.timew1w3#c.w1hei2010_total_scorecent43	.0009362	.0017546	0.53	0.595	-.0025347 .0044072

	timew1w3	0	(omitted)				
w1BMIcon30		- .0025712	.0130669	-0.20	0.844	- .0282223	.02308
c.timew1w3#c.w1BMIcon30		- .0009236	.0027431	-0.34	0.736	- .0063012	.0044539
	timew1w3	0	(omitted)				
w1SRH							
2		.0144777	.2351221	0.06	0.951	- .4463645	.4753199
3		.1306306	.2626826	0.50	0.619	- .3843635	.6456247
w1SRH#c.timew1w3							
2		- .060823	.049618	-1.23	0.220	- .1580728	.0364269
3		- .0872507	.0556814	-1.57	0.117	- .1963953	.0218938
	timew1w3	0	(omitted)				
w1CEScent15		.0044803	.0080427	0.56	0.577	- .0112833	.0202438
c.timew1w3#c.w1CEScent15		- .0022926	.0016779	-1.37	0.172	- .0055812	.000996
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0001183	.2020842	0.00	1.000	- .396201	.3964376
w1dxHTN#c.timew1w3							
Yes		.0271036	.0440949	0.61	0.539	- .0593505	.1135576
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.1036499	.2129293	0.49	0.626	- .3137618	.5210617
Diabetes		- .0844937	.2788803	-0.30	0.762	- .6340597	.4650724
w1dxDiabetes#c.timew1w3							
preDiabetes		.0749568	.044948	1.67	0.095	- .0131397	.1630534
Diabetes		- .0265125	.0583886	-0.45	0.650	- .1410245	.0879995
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.0086387	.2211898	0.04	0.969	- .4351195	.4523968
w1CVhighChol#c.timew1w3							
Yes		- .013376	.0457949	-0.29	0.770	- .1035022	.0767501
	timew1w3	0	(omitted)				
1.w1cvdbr		- .2971146	.2902192	-1.02	0.312	- .8844235	.2901942
w1cvdbr#c.timew1w3							
1		.0079656	.0546118	0.15	0.884	- .0990984	.1150296
	timew1w3	0	(omitted)				
invmillsmms		.005269	.0036989	1.42	0.154	- .0019807	.0125187
c.timew1w3#c.invmillsmms		- .0001166	.0006857	-0.17	0.865	- .0014606	.0012274
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		- .0759657	.0909848	-0.83	0.404	- .254293	.1023617
c.timew1w3#c.zw1w3HCYTRAJ		- .0114669	.0188191	-0.61	0.542	- .0483517	.0254178

_cons	5.824172	.3972083	14.66	0.000	5.045371	6.602974
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0237387
sd(_cons)	1.496483
corr(timew1w3,_cons)	-.9999998
sd(Residual)	1.25816

593 .
 594 . 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##w1cvdbl c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4iobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,191
Group variable: HNDID		
Number of groups	=	611
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(41,95345.6)	= 3.08
	Prob > F	= 0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.090589	.0591376	-1.53	0.126	-.2065083	.0253304
w1Agecent48	-.0053332	.005163	-1.03	0.302	-.0154526	.0047862
c.timew1w3#c.w1Agecent48	-.00198	.0014588	-1.36	0.175	-.0048394	.0008793
timew1w3	0	(omitted)				
Sex						
Men	-.032011	.0905072	-0.35	0.724	-.2094022	.1453801
Sex#c.timew1w3						
Men	.0077661	.0254505	0.31	0.760	-.0421161	.0576484
timew1w3	0	(omitted)				
Race						
White	0	(omitted)				
Race#c.timew1w3						
White	0	(omitted)				
timew1w3	0	(omitted)				

PovStat Below	.1208848	.1019508	1.19	0.236	-.0789372	.3207068
PovStat#c.timew1w3 Below	-.0180458	.0282674	-0.64	0.523	-.0734489	.0373573
timew1w3	0 (omitted)					
w1edubr 2 3	-.2216714 .0508324	.1697114 .1960924	-1.31 0.26	0.192 0.795	-.5543333 -.333641	.1109906 .4353058
w1edubr#c.timew1w3 2 3	.0538961 .0401518	.0467652 .0543025	1.15 0.74	0.249 0.460	-.0377677 -.0662895	.14556 .1465931
timew1w3 w1WRATtotalcent42	0 (omitted) .0246353	.0069077	3.57	0.000	.0110941	.0381765
c.timew1w3#c.w1WRATtotalcent42	-.0004842	.00194	-0.25	0.803	-.0042868	.0033183
timew1w3 1.w1smoke	0 (omitted) -.0751312	.1194049	-0.63	0.532	-.3137906	.1635283
w1smoke#c.timew1w3 1	.0053764	.0317465	0.17	0.866	-.0571099	.0678627
timew1w3 1.w1currdrugs	0 (omitted) .3340762	.1519246	2.20	0.031	.0307144	.637438
w1currdrugs#c.timew1w3 1	-.0688392	.0389343	-1.77	0.078	-.1453711	.0076926
timew1w3 w1hei2010_total_scorecent43	0 (omitted) .0045876	.0039284	1.17	0.243	-.0031155	.0122907
c.timew1w3#c.w1hei2010_total_scorecent43	.0000145	.0011888	0.01	0.990	-.0023217	.0023507
timew1w3 w1BMIcon30	0 (omitted) -.0005907	.0067824	-0.09	0.931	-.0138893	.0127078
c.timew1w3#c.w1BMIcon30	.0006294	.0019318	0.33	0.745	-.0031574	.0044162
timew1w3	0 (omitted)					
w1SRH 2 3	.0718162 -.042379	.1235923 .136365	0.58 -0.31	0.561 0.756	-.1704252 -.3096515	.3140576 .2248935
w1SRH#c.timew1w3 2 3	.039888 .0625581	.0354381 .0391936	1.13 1.60	0.260 0.110	-.0295695 -.0142615	.1093455 .1393777
timew1w3 w1CEScent15	0 (omitted) -.0126876	.0042754	-2.97	0.003	-.0210677	-.0043076
c.timew1w3#c.w1CEScent15	.0012117	.0012087	1.00	0.316	-.0011576	.0035809
timew1w3	0 (omitted)					
w1dxHTN Yes	.0455047	.1059145	0.43	0.667	-.1620889	.2530983

w1dxHTN#c.timew1w3 Yes		- .0153437	.031229	-0.49	0.623	-.0765678	.0458804
	timew1w3		0 (omitted)				
w1dxDiabetes preDiabetes Diabetes		.103786	.1126522	0.92	0.357	-.1170224	.3245943
		.0355324	.1450905	0.24	0.807	-.2495011	.3205659
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		-.0015509	.0323684	-0.05	0.962	-.0649949	.0618931
	timew1w3		0 (omitted)				
w1CVhighChol Yes		-.0654527	.1107842	-0.59	0.555	-.2836261	.1527207
w1CVhighChol#c.timew1w3 Yes		-.0018563	.0314961	-0.06	0.953	-.0636387	.0599261
	timew1w3 1.w1cvdbr		0 (omitted)				
		-.2982234	.1368731	-2.18	0.030	-.5671517	-.0292951
w1cvdbr#c.timew1w3 1		.0214803	.0402893	0.53	0.594	-.0577017	.1006622
	timew1w3 invmillsmms		0 (omitted)				
		.0006723	.0019773	0.34	0.734	-.0032031	.0045478
c.timew1w3#c.invmillsmms		-.0001942	.0005004	-0.39	0.698	-.001175	.0007865
	timew1w3 zw1w3HCYTRAJ		0 (omitted)				
		-.0533442	.0485238	-1.10	0.272	-.1484503	.041762
c.timew1w3#c.zw1w3HCYTRAJ		.0002551	.0135452	0.02	0.985	-.0262932	.0268034
	_cons	9.022901	.212735	42.41	0.000	8.605706	9.440096

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0284052	.	.
sd(_cons)	.4905243	.	.
corr(timew1w3,_cons)	1	.	.
sd(Residual)	.9213329	.	.

595 .
 596 . 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.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4jobs==1 & Race==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 = 1,171

Number of groups = 604
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0523
 Largest FMI = 0.4311
 DF: min = 26.37
 avg = 322,951.21
 max = 6113968.69
 F(41,53446.5) = 4.22
 Prob > F = 0.0000

	LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0141059	.0139995	1.01	0.314	.0133919	.0416038
w1Agecent48	.0075192	.0014906	5.04	0.000	.0045973	.010441
c.timew1w3#c.w1Agecent48	.0005517	.0003289	1.68	0.094	-.0000931	.0011964
timew1w3	0	(omitted)				
Sex						
Men	.0578802	.026095	2.22	0.027	.0067347	.1090256
Sex#c.timew1w3						
Men	.008536	.0057798	1.48	0.140	-.0027923	.0198643
timew1w3	0	(omitted)				
Race						
White	0	(omitted)				
Race#c.timew1w3						
White	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	.0456714	.0292865	1.56	0.119	-.0117299	.1030727
PovStat#c.timew1w3						
Below	-.0102922	.0064145	-1.60	0.109	-.0228644	.00228
timew1w3	0	(omitted)				
w1edubr						
2	-.0866995	.0485628	-1.79	0.074	-.1818894	.0084904
3	-.0634198	.0550839	-1.15	0.250	-.1713872	.0445477
w1edubr#c.timew1w3						
2	-.0100313	.0109439	-0.92	0.360	-.0315088	.0114461

	3	- .0132165	.0126257	-1.05	0.295	-.0379937	.0115607
	timew1w3	0	(omitted)				
w1WRATtotalcent42		-.0091371	.0019703	-4.64	0.000	-.0129987	-.0052754
c.timew1w3#c.w1WRATtotalcent42		.0002375	.0004481	0.53	0.596	-.0006411	.0011161
	timew1w3	0	(omitted)				
1.w1smoke		.0061742	.0342557	0.18	0.858	-.0630122	.0753607
w1smoke#c.timew1w3							
1		.0078476	.00731	1.07	0.284	-.0065516	.0222468
	timew1w3	0	(omitted)				
1.w1currdrugs		-.0227735	.0383778	-0.59	0.553	-.0981763	.0526293
w1currdrugs#c.timew1w3							
1		.0051643	.0087698	0.59	0.556	-.0120386	.0223672
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0001769	.0013371	-0.13	0.896	-.0029234	.0025696
c.timew1w3#c.w1hei2010_total_scorecent43		.0001537	.0002754	0.56	0.577	-.0003881	.0006956
	timew1w3	0	(omitted)				
w1BMIconcept30		-.0000386	.0019389	-0.02	0.984	-.0038392	.003762
c.timew1w3#c.w1BMIconcept30		.0004204	.0004358	0.96	0.335	-.0004337	.0012745
	timew1w3	0	(omitted)				
w1SRH							
2		-.0634506	.035481	-1.79	0.074	-.1329921	.0060909
3		-.0498055	.0394599	-1.26	0.207	-.1271558	.0275448
w1SRH#c.timew1w3							
2		-.0064549	.0080267	-0.80	0.421	-.0221871	.0092773
3		-.0059649	.0088749	-0.67	0.502	-.0233599	.0114301
	timew1w3	0	(omitted)				
w1CEScent15							
	timew1w3	0	(omitted)				
w1CEScent15		.0005912	.0012284	0.48	0.630	-.0018165	.002999
c.timew1w3#c.w1CEScent15		.0004071	.0002724	1.49	0.135	-.0001268	.000941
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.0479475	.0331132	-1.45	0.150	-.1134607	.0175657
w1dxHTN#c.timew1w3							
Yes		.0070953	.0070436	1.01	0.314	-.0067111	.0209016
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.0492616	.0331982	1.48	0.138	-.0159293	.1144525
Diabetes		.0578871	.0405439	1.43	0.154	-.0216682	.1374423
w1dxDiabetes#c.timew1w3							
preDiabetes		-.00268	.0073714	-0.36	0.716	-.01713	.0117701
Diabetes		.0030167	.0091812	0.33	0.742	-.0149783	.0210116
	timew1w3	0	(omitted)				

w1CVhighChol Yes	- .0147258	.0321504	-0.46	0.648	- .078568	.0491164
w1CVhighChol#c.timew1w3 Yes	- .0054969	.0070456	-0.78	0.435	- .0193074	.0083136
timew1w3 1.w1cvdbr	0 .0250308	(omitted) .0378542	0.66	0.509	- .0492895	.099351
w1cvdbr#c.timew1w3 1	- .0052102	.0089937	-0.58	0.562	- .0228558	.0124354
timew1w3 invmillsmms	0 -.0006038	(omitted) .0005597	-1.08	0.281	- .0017009	.0004933
c.timew1w3#c.invmillsmms	-.0001237	.0001115	-1.11	0.267	- .0003423	.0000949
timew1w3 zw1w3HCYTRAJ	0 .0388627	(omitted) .0138424	2.81	0.005	.0117321	.0659933
c.timew1w3#c.zw1w3HCYTRAJ	-.0031111	.0030447	-1.02	0.307	- .0090785	.0028564
_cons	3.44726	.0619065	55.68	0.000	3.325739	3.568781

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.025163	.0054517	.0164568	.0384751
sd(_cons)	.2297541	.0096864	.2115323	.2495455
sd(Residual)	.1861243	.0088214	.1696134	.2042424

597 .

598 . 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##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4kobs==1 & Race==1 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations =	5
Mixed-effects ML regression	Number of obs =	1,141
Group variable: HNDID	Number of groups =	600
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
DF adjustment: Large sample	Average RVI =	.
	Largest FMI =	.
	DF: min =	0.00
	avg =	.
	max =	.
Model F test: Equal FMI	F(41, 49053.0) =	9.12
	Prob > F =	0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0134065	.0189346	0.71	0.479	-.0237051 .0505181
w1Agecent48	.0099718	.002453	4.07	0.000	.0051635 .01478
c.timew1w3#c.w1Agecent48	.0007572	.0004512	1.68	0.093	-.0001271 .0016415
timew1w3	0	(omitted)			
Sex					
Men	.0852213	.0429756	1.98	0.047	.0009903 .1694524
Sex#c.timew1w3					
Men	-.0059389	.0079959	-0.74	0.458	-.021612 .0097342
timew1w3	0	(omitted)			
Race					
White	0	(omitted)			
Race#c.timew1w3					
White	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	.0873842	.0482866	1.81	0.070	-.0072561 .1820246
PovStat#c.timew1w3					
Below	-.0083712	.0090108	-0.93	0.353	-.0260326 .0092902
timew1w3	0	(omitted)			
w1edubr					
2	-.1521858	.0796928	-1.91	0.056	-.3083855 .0040139
3	-.2429886	.0926505	-2.62	0.009	-.4247528 -.0612244
w1edubr#c.timew1w3					
2	.026508	.0151449	1.75	0.080	-.0031757 .0561917
3	.0302706	.0173863	1.74	0.082	-.0038063 .0643475
timew1w3	0	(omitted)			
w1WRATtotalcent42	-.0273486	.0032802	-8.34	0.000	-.0337781 -.020919
c.timew1w3#c.w1WRATtotalcent42	-.0002223	.0006623	-0.34	0.737	-.0015205 .001076
timew1w3	0	(omitted)			
1.w1smoke	.0267556	.0503561	0.53	0.596	-.0726866 .1261979
w1smoke#c.timew1w3					
1	-.009849	.0097794	-1.01	0.314	-.0290289 .0093309
timew1w3	0	(omitted)			
1.w1currdrugs	-.0470644	.0662551	-0.71	0.479	-.1784002 .0842714
w1currdrugs#c.timew1w3					
1	-.0089997	.0120094	-0.75	0.454	-.0325577 .0145583
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	-.0000462	.0017986	-0.03	0.980	-.0035876 .0034953
c.timew1w3#c.w1hei2010_total_scorecent43	-.000456	.0003875	-1.18	0.240	-.0012191 .0003071

	timew1w3	0	(omitted)				
w1BMIcon30		.0007492	.0032043	0.23	0.815	-.0055325	.0070309
c.timew1w3#c.w1BMIcon30		-.0012875	.0006107	-2.11	0.035	-.0024848	-.0000903
	timew1w3	0	(omitted)				
w1SRH							
2		-.1090861	.0585471	-1.86	0.062	-.2238366	.0056644
3		-.0360074	.0645724	-0.56	0.577	-.1625695	.0905547
w1SRH#c.timew1w3							
2		-.0226863	.0111757	-2.03	0.042	-.0445904	-.0007822
3		-.0391025	.0123971	-3.15	0.002	-.063401	-.0148039
	timew1w3	0	(omitted)				
w1CEScent15		.004891	.0020227	2.42	0.016	.0009266	.0088555
c.timew1w3#c.w1CEScent15		-.0006561	.0003812	-1.72	0.085	-.0014033	.0000911
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0031236	.0511503	0.06	0.951	-.0972617	.1035088
w1dxHTN#c.timew1w3							
Yes		-.0078376	.0098828	-0.79	0.428	-.0272158	.0115406
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.0038827	.053065	-0.07	0.942	-.1079133	.100148
Diabetes		.0242119	.06802	0.36	0.722	-.1095003	.1579241
w1dxDiabetes#c.timew1w3							
preDiabetes		.0097732	.0101175	0.97	0.334	-.0100588	.0296051
Diabetes		.0100023	.0132611	0.75	0.451	-.0160092	.0360139
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.0120826	.0506263	0.24	0.812	-.0878518	.1120169
w1CVhighChol#c.timew1w3							
Yes		-.0077983	.0103578	-0.75	0.452	-.0282062	.0126097
	timew1w3	0	(omitted)				
1.w1cvdbr		-.011566	.0670566	-0.17	0.863	-.144983	.1218511
w1cvdbr#c.timew1w3							
1		.0095249	.012455	0.76	0.445	-.01492	.0339697
	timew1w3	0	(omitted)				
invmillsmms		-.0033452	.000923	-3.62	0.000	-.0051542	-.0015362
c.timew1w3#c.invmillsmms		-.0000843	.0006039	-0.14	0.889	-.0012678	.0010992
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.025986	.0228061	1.14	0.255	-.0187131	.0706851
c.timew1w3#c.zw1w3HCYTRAJ		-.0038936	.0042623	-0.91	0.361	-.0122477	.0044606

_cons	4.582136	.0989047	46.33	0.000	4.388275	4.775997
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0207421
sd(_cons)	.4040145
corr(timew1w3,_cons)	-.9999999
sd(Residual)	.2725078

```

599 .
600 .
601 . save, replace
      file finaldata_imputed_FINAL.dta saved

602 .
      end of do-file

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

604 .
605 . *****TABLE 3: HOMOCYSTEINE TRAJ VS. COGNITIVE CHANGE OVER TIME: AA*****
606 .
607 .
608 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS// 
609 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,479

Number of groups = 793
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI =
Largest FMI =
DF: min = 0.00
    avg =
    max =
F( 11, 5.2e+67) = 5.98
Prob > F = 0.0000

```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0013717	.0241001	0.06	0.955	-.0458637	.048607
w1Agecent48	-.0393472	.0082859	-4.75	0.000	-.05555873	-.023107
c.timew1w3#c.w1Agecent48	-.0006346	.0016106	-0.39	0.694	-.0037914	.0025222
timew1w3	0	(omitted)				
Sex						
Men	-.2604427	.1594955	-1.63	0.102	-.5730481	.0521627
Sex#c.timew1w3						

Men	-.0050411	.0308399	-0.16	0.870	-.0654862	.0554039
timew1w3		0 (omitted)				
Race						
AfrAm		0 (omitted)				
Race#c.timew1w3						
AfrAm		0 (omitted)				
timew1w3		0 (omitted)				
PovStat						
Below	-.5838717	.1563624	-3.73	0.000	-.8903363	-.277407
PovStat#c.timew1w3						
Below	-.0027812	.0299164	-0.09	0.926	-.0614163	.0558539
timew1w3		0 (omitted)				
invmillsmms	-.0030673	.0118191	-0.26	0.795	-.0262322	.0200977
c.timew1w3#c.invmillsmms	-.0023256	.0020971	-1.11	0.267	-.0064358	.0017845
timew1w3		0 (omitted)				
zw1w3HCYTRAJ	-.0892218	.0750437	-1.19	0.234	-.2363048	.0578612
c.timew1w3#c.zw1w3HCYTRAJ	.0067979	.0142938	0.48	0.634	-.0212175	.0348133
_cons	27.82164	.1234468	225.37	0.000	27.57969	28.06359

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.1130017	.	.
sd(_cons)	1.707159	.	.
corr(timew1w3,_cons)	-.9999999	.	.
sd(Residual)	1.28379	.	.

610 .
 611 .
 612 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ ||/
 > if sample4aobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 1,479
Group variable: HNDID	Number of groups = 793
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = 0.0000
	Largest FMI = 0.0000
	DF: min = 6.38e+69
	avg = 6.38e+69
	max = .
Model F test: Equal FMI	F(11, .) = 5.95
	Prob > F = 0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0753432	.1851107	-0.41	0.684	-.4381535 .2874671
w1Agecent48	-.287346	.0578038	-4.97	0.000	-.4006393 -.1740528
c.timew1w3#c.w1Agecent48	-.0030707	.0123752	-0.25	0.804	-.0273258 .0211843
timew1w3	0	(omitted)			
Sex Men	-1.027982	1.113094	-0.92	0.356	-3.209606 1.153641
Sex#c.timew1w3 Men	-.0835267	.2367702	-0.35	0.724	-.5475877 .3805344
timew1w3	0	(omitted)			
Race AfrAm	0	(omitted)			
Race#c.timew1w3 AfrAm	0	(omitted)			
timew1w3	0	(omitted)			
PovStat Below	-4.227424	1.091104	-3.87	0.000	-6.365948 -2.0889
PovStat#c.timew1w3 Below	-.0882695	.2296339	-0.38	0.701	-.5383436 .3618046
timew1w3 invmillsmms	0	(omitted)			
invmillsmms	-.0234654	.082464	-0.28	0.776	-.1850918 .138161
c.timew1w3#c.invmillsmms	-.0184427	.0160447	-1.15	0.250	-.0498896 .0130043
timew1w3 zw1w3HCYTRAJ	0	(omitted)			
zw1w3HCYTRAJ	-.43374	.5232851	-0.83	0.407	-1.45936 .59188
c.timew1w3#c.zw1w3HCYTRAJ	.0377911	.1098129	0.34	0.731	-.1774382 .2530204
_cons	76.32422	.861267	88.62	0.000	74.63617 78.01227

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.5573456	.1435372	.3364408	.9232952
sd(_cons)	10.96457	.5364103	9.962061	12.06797
corr(timew1w3,_cons)	-.9999996	.0001801	-1	1
sd(Residual)	10.09443	.2804116	9.559529	10.65926

```

613 .
614 .
615 .
616 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4bobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =      5
Number of obs    = 1,408

Group variable: HNDID
Number of groups  =     789
Obs per group:
min =          1
avg =         1.8
max =          2
Average RVI      =  0.0000
Largest FMI      =  0.0000
DF: min          = 7.11e+63
      avg          = 7.11e+63
      max          =
Model F test: Equal FMI
F( 11, 3.9e+66) =   66.26
Prob > F          = 0.0000

```

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.033583	.0726764	-14.22	0.000	-1.176026 -.8911398
w1Agecent48	-.1222441	.0238873	-5.12	0.000	-.1690623 -.0754258
c.timew1w3#c.w1Agecent48	-.0075288	.0048402	-1.56	0.120	-.0170154 .0019578
timew1w3	0 (omitted)				
Sex					
Men	-1.770613	.4604592	-3.85	0.000	-2.673097 -.8681295
Sex#c.timew1w3					
Men	-.1972032	.0927291	-2.13	0.033	-.3789488 -.0154576
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race#c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-1.401463	.4482529	-3.13	0.002	-2.280023 -.5229039
PovStat#c.timew1w3					
Below	-.0018385	.088862	-0.02	0.983	-.1760049 .1723278
timew1w3	0 (omitted)				
invmillsmms	.0353658	.0448917	0.79	0.431	-.0526203 .1233519
c.timew1w3#c.invmillsmms	-.0123593	.0087467	-1.41	0.158	-.0295025 .004784
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	.2460212	.2206917	1.11	0.265	-.1865266 .678569

c.timew1w3#c.zw1w3HCYTRAJ	-.0371055	.0434543	-0.85	0.393	-.1222744	.0480633
_cons	24.92889	.357871	69.66	0.000	24.22748	25.63031

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.2920486	.1553265	.1029775	.8282626
sd(_cons)	4.571535	.1676235	4.254526	4.912164
sd(Residual)	3.646192	.1751044	3.318651	4.006061

617 .
 618 .
 619 .
 620 . mi estimate: mixed CVLfr1 c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4cobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5		
Number of obs	=	1,344		
Group variable: HNDID	Number of groups	=	779	
	Obs per group:			
	min	=	1	
	avg	=	1.7	
	max	=	2	
	Average RVI	=	0.0000	
	Largest FMI	=	0.0000	
DF adjustment: Large sample	DF:	min	=	2.69e+63
		avg	=	1.11e+64
		max	=	.
Model F test: Equal FMI	F(11, 4.8e+65)	=	35.91	
	Prob > F	=	0.0000	

CVLfr1	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.3473527	.0357712	-9.71	0.000	-.417463	-.2772424
w1Agecent48	-.0790706	.0114207	-6.92	0.000	-.1014547	-.0566865
c.timew1w3#c.w1Agecent48	-.0018865	.0024075	-0.78	0.433	-.0066051	.0028321
timew1w3	0	(omitted)				
Sex						
Men	-.7785973	.2202759	-3.53	0.000	-1.21033	-.3468645
Sex#c.timew1w3						
Men	-.0466165	.0460214	-1.01	0.311	-.1368168	.0435839
timew1w3	0	(omitted)				
Race						
AfrAm	0	(omitted)				
Race#c.timew1w3						
AfrAm	0	(omitted)				
timew1w3	0	(omitted)				

PovStat Below	-.506808	.2135512	-2.37	0.018	-.9253605	-.0882554
PovStat#c.timew1w3 Below	-.0139234	.0440316	-0.32	0.752	-.1002237	.072377
timew1w3 invmillsmms	0 .0105063	(omitted) .0234726	0.45	0.654	-.0354992	.0565119
c.timew1w3#c.invmillsmms	-.0032404	.0044339	-0.73	0.465	-.0119306	.0054498
timew1w3 zw1w3HCYTRAJ	0 .1628157	(omitted) .1067303	1.53	0.127	-.0463719	.3720033
c.timew1w3#c.zw1w3HCYTRAJ	-.0306165	.0216417	-1.41	0.157	-.0730335	.0118005
_cons	7.27151	.1697554	42.84	0.000	6.938795	7.604225

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000979	.0192769	2.7e-172	3.6e+163
sd(_cons)	2.041159	.0816167	1.887301	2.20756
sd(Residual)	1.818877	.0537759	1.716474	1.927389

```

621 .
622 .
623 .
624 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4dobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 1,539
Number of groups = 802
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0000
Largest FMI = 0.0000
DF: min = 1.97e+58
        avg = 1.97e+58
        max = .
F( 11, .) = 29.07
Prob > F = 0.0000

```

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.3825652	.0577906	6.62	0.000	.2692977 .4958327
w1Agecent48	.1326341	.0194783	6.81	0.000	.0944574 .1708108
c.timew1w3#c.w1Agecent48	.0112031	.0039043	2.87	0.004	.0035508 .0188554
timew1w3	0	(omitted)			
Sex					
Men	-1.460645	.3731964	-3.91	0.000	-2.192097 -.7291937
Sex#c.timew1w3					
Men	.0911141	.0743801	1.22	0.221	-.0546682 .2368964
timew1w3	0	(omitted)			
Race					
AfrAm	0	(omitted)			
Race#c.timew1w3					
AfrAm	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	.6525229	.3662859	1.78	0.075	-.0653843 1.37043
PovStat#c.timew1w3					
Below	.1384695	.0725907	1.91	0.056	-.0038057 .2807447
timew1w3	0	(omitted)			
invmillsmms	.0098408	.0294508	0.33	0.738	-.0478818 .0675633
c.timew1w3#c.invmillsmms	-.0028204	.0057568	-0.49	0.624	-.0141035 .0084626
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.0293589	.1747416	0.17	0.867	-.3131284 .3718462
c.timew1w3#c.zw1w3HCYTRAJ	.0667285	.0343457	1.94	0.052	-.0005879 .1340448
_cons	7.236922	.2879964	25.13	0.000	6.67246 7.801385

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.767584	.0785901	.6280215 .938161
sd(_cons)	4.58314	.1941936	4.217903 4.980003
corr(timew1w3,_cons)	-.5087968	.0379358	-.5793136 -.4307204
sd(Residual)	1.973088	.3233831	1.430992 2.720545

```

625 .
626 .
627 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4eobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =      5
Number of obs    = 1,404

Group variable: HNDID
Number of groups = 791
Obs per group:
min = 1
avg = 1.8
max = 2
Average RVI      =
Largest FMI      =
DF: min = 0.00
avg = .
max = .

DF adjustment: Large sample
F( 11, 3.0e+66) = 4.47
Prob > F = 0.0000

```

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0132647	.0271949	-0.49	0.626	-.0665658 .0400363
w1Agecent48	-.0315884	.0087111	-3.63	0.000	-.0486618 -.0145151
c.timew1w3#c.w1Agecent48	-.0011584	.0018268	-0.63	0.526	-.0047388 .0024221
timew1w3	0	(omitted)			
Sex					
Men	-.0617718	.166831	-0.37	0.711	-.3887546 .2652111
Sex#c.timew1w3					
Men	-.0152769	.034582	-0.44	0.659	-.0830564 .0525025
timew1w3	0	(omitted)			
Race					
AfrAm	0	(omitted)			
Race#c.timew1w3					
AfrAm	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-.3552579	.162326	-2.19	0.029	-.6734109 -.0371048
PovStat#c.timew1w3					
Below	-.06488	.0332691	-1.95	0.051	-.1300863 .0003263
timew1w3	0	(omitted)			
invmillsmms	-.0081203	.0157479	-0.52	0.606	-.0389856 .022745
c.timew1w3#c.invmillsmms	.0043149	.0031081	1.39	0.165	-.0017769 .0104066
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.0068648	.0798456	-0.09	0.931	-.1633592 .1496296
c.timew1w3#c.zw1w3HCYTRAJ	-.0220043	.0165453	-1.33	0.184	-.0544324 .0104239

_cons	6.501497	.1294512	50.22	0.000	6.247777	6.755217
-------	-----------------	-----------------	--------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0212575
sd(_cons)	1.576788
corr(timew1w3,_cons)	.9999996
sd(Residual)	1.423587

628 .

629 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4fobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,556
Group variable: HNDID		
Number of groups	=	804
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0000
Largest FMI	=	0.0000
DF adjustment: Large sample	DF:	min = 1.94e+62
	avg	= 1.94e+62
	max	= .
Model F test: Equal FMI	F(11, 1.3e+65)	= 4.61
	Prob > F	= 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0124062	.0513597	0.24	0.809	-.088257	.1130695
w1Agecent48	-.0615297	.0190952	-3.22	0.001	-.0989557	-.0241038
c.timew1w3#c.w1Agecent48	-.0049091	.0034548	-1.42	0.155	-.0116803	.0018622
timew1w3		0 (omitted)				
Sex						
Men	1.414116	.3665466	3.86	0.000	.6956977	2.132534
Sex#c.timew1w3						
Men	.029726	.0660318	0.45	0.653	-.0996939	.159146
timew1w3		0 (omitted)				
Race						
AfrAm		0 (omitted)				
Race#c.timew1w3						
AfrAm		0 (omitted)				
timew1w3		0 (omitted)				
PovStat						

	Below	-.856872	.3590302	-2.39	0.017	-1.560558	-.1531857
PovStat#c.timew1w3	Below	.0275884	.0640044	0.43	0.666	-.0978579	.1530348
timew1w3 invmillsmms		0 (omitted)					
c.timew1w3#c.invmillsmms		-.012973	.0403219	-0.32	0.748	-.0920025	.0660564
timew1w3 zw1w3HCYTRAJ		.005625	.0076735	0.73	0.464	-.0094148	.0206647
c.timew1w3#c.zw1w3HCYTRAJ		-.103371	.1718318	-0.60	0.547	-.4401551	.2334131
	_cons	-.0489858	.0301577	-1.62	0.104	-.1080938	.0101222
		17.88149	.2828559	63.22	0.000	17.32711	18.43588

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.4737002	.1497631	.2549125	.8802701
sd(_cons)	4.294237	.2331554	3.860736	4.776414
corr(timew1w3,_cons)	-.3049669	.0886545	-.4672636	-.1227869
sd(Residual)	2.422562	.3270498	1.859351	3.156374

```

630 .
631 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression
Imputations = 5
Number of obs = 1,529

Group variable: HNDID
Number of groups = 803
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( 11, 9.8e+64) = 4.86
Prob > F = 0.0000

```

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0242477	.0203184	1.19	0.233	-.0155756	.064071
w1Agecent48	-.0169721	.0077732	-2.18	0.029	-.0322072	-.0017369
c.timew1w3#c.w1Agecent48	-.0055045	.0013587	-4.05	0.000	-.0081674	-.0028416
timew1w3	0 (omitted)					
Sex						
Men	.2434442	.1491019	1.63	0.103	-.0487902	.5356787

Sex#c.timew1w3						
Men	-.0525189	.0259648	-2.02	0.043	-.103409	-.0016288
timew1w3	0	(omitted)				
Race						
AfrAm	0	(omitted)				
Race#c.timew1w3						
AfrAm	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	-.3780025	.1456926	-2.59	0.009	-.6635547	-.0924502
PovStat#c.timew1w3						
Below	-.0400711	.0249964	-1.60	0.109	-.0890632	.0089211
timew1w3	0	(omitted)				
invmillsmms	-.0061936	.0137798	-0.45	0.653	-.0332016	.0208143
c.timew1w3#c.invmillsmms	.0000313	.0024688	0.01	0.990	-.0048074	.0048701
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.0322839	.0699904	-0.46	0.645	-.1694625	.1048947
c.timew1w3#c.zw1w3HCYTRAJ	-.0164861	.0118181	-1.39	0.163	-.0396491	.006677
_cons	7.065034	.1152952	61.28	0.000	6.839059	7.291008

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0105024	.	.	.
sd(_cons)	1.654553	.	.	.
corr(timew1w3,_cons)	.9999997	.	.	.
sd(Residual)	1.130576	.	.	.

632 .

633 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,520

Group variable: HNDID

Number of groups	=	803
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(11, 2.0e+64)	=	3.97
Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.006343	.0217772	-0.29	0.771	-.0490254	.0363395
w1Agecent48	-.027334	.00739	-3.70	0.000	-.0418181	-.0128499
c.timew1w3#c.w1Agecent48	-.0007395	.0014502	-0.51	0.610	-.0035819	.0021028
timew1w3	0	(omitted)				
Sex Men	.0045185	.1423733	0.03	0.975	-.274528	.2835651
Sex#c.timew1w3 Men	-.0425064	.0278145	-1.53	0.126	-.0970217	.0120089
timew1w3	0	(omitted)				
Race AfrAm	0	(omitted)				
Race#c.timew1w3 AfrAm	0	(omitted)				
timew1w3	0	(omitted)				
PovStat Below	-.525347	.1386492	-3.79	0.000	-.7970944	-.2535996
PovStat#c.timew1w3 Below	.0165939	.0266725	0.62	0.534	-.0356833	.068871
timew1w3 invmillsmms	0	(omitted)				
	.0155405	.0135408	1.15	0.251	-.0109989	.04208
c.timew1w3#c.invmillsmms	-.0058451	.0025911	-2.26	0.024	-.0109235	-.0007667
timew1w3 zw1w3HCYTRAJ	0	(omitted)				
	-.1066201	.0668152	-1.60	0.111	-.2375755	.0243353
c.timew1w3#c.zw1w3HCYTRAJ	.0116053	.0126779	0.92	0.360	-.013243	.0364535
_cons	5.396449	.1100605	49.03	0.000	5.180734	5.612164

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0041825	.	.
sd(_cons)	1.465837	.	.
corr(timew1w3,_cons)	.9999995	.	.
sd(Residual)	1.207419	.	.

634 .
 635 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4iobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 1,545
Group variable: HNDID	Number of groups = 803
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0000
	Largest FMI = 0.0000
DF adjustment: Large sample	DF: min = 4.62e+60
	avg = 7.35e+63
	max = .
Model F test: Equal FMI	F(11, 4.6e+65) = 1.82
	Prob > F = 0.0458

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0080733	.0177889	-0.45	0.650	-.0429389 .0267922
w1Agecent48	-.0055076	.0048327	-1.14	0.254	-.0149795 .0039644
c.timew1w3##c.w1Agecent48	-.0014224	.0012011	-1.18	0.236	-.0037764 .0009317
timew1w3	0 (omitted)				
Sex					
Men	.1970281	.0930034	2.12	0.034	.0147448 .3793114
Sex#c.timew1w3					
Men	.0082281	.0229304	0.36	0.720	-.0367147 .0531709
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race#c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.0253938	.0910736	-0.28	0.780	-.2038947 .1531072
PovStat#c.timew1w3					
Below	-.0019623	.0222011	-0.09	0.930	-.0454757 .0415511
timew1w3	0 (omitted)				
invmillsmms	.006513	.0094573	0.69	0.491	-.012023 .0250489
c.timew1w3##c.invmillsmms	-.0013934	.0020595	-0.68	0.499	-.0054298 .0026431
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.0450953	.0435922	-1.03	0.301	-.1305345 .0403439
c.timew1w3##c.zw1w3HCYTRAJ	-.0133514	.0104662	-1.28	0.202	-.0338649 .007162

_cons	8.568857	.0714225	119.97	0.000	8.428872	8.708843
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1400242	.0394678	.0805898	.2432912
sd(_cons)	.8655069	.0823073	.7183294	1.042839
corr(timew1w3,_cons)	-.4614241	.0930784	-.6236144	-.2611482
sd(Residual)	.8960021	.071244	.7667031	1.047106

636 .

637 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Pc
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4jobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,499

Group variable: **HNDID**

Number of groups	=	793
Obs per group:		
	min	1
	avg	1.9
	max	2
Average RVI	=	0.0000
Largest FMI	=	0.0000

DF adjustment: Large sample

DF:	min	1.06e+60
	avg	1.06e+60
	max	.

Model F test: Equal FMI

F(11, 6.3e+62)	=	18.66
Prob > F	=	0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0025893	.0050071	0.52	0.605	-.0072244	.0124031
w1Agecent48	.0140802	.0015251	9.23	0.000	.011091	.0170693
c.timew1w3#c.w1Agecent48	.000738	.0003401	2.17	0.030	.0000713	.0014046
timew1w3		0 (omitted)				
Sex						
Men	.1264862	.029288	4.32	0.000	.0690827	.1838897
Sex#c.timew1w3						
Men	-.0063061	.0064874	-0.97	0.331	-.0190212	.0064089
timew1w3		0 (omitted)				
Race						
AfrAm		0 (omitted)				
Race#c.timew1w3						
AfrAm		0 (omitted)				
timew1w3		0 (omitted)				
PovStat						
Below	.0951547	.0286822	3.32	0.001	.0389386	.1513709

PovStat#c.timew1w3 Below	.0088117	.006253	1.41	0.159	-.0034439	.0210674
timew1w3 invmillsmms	0 (omitted) .0111578	.0028383	3.93	0.000	.0055948	.0167208
c.timew1w3#c.invmillsmms	-.0013057	.0005836	-2.24	0.025	-.0024496	-.0001618
timew1w3 zw1w3HCYTRAJ	0 (omitted) .0228297	.0137813	1.66	0.098	-.0041812	.0498405
c.timew1w3#c.zw1w3HCYTRAJ	.0010659	.0029535	0.36	0.718	-.0047229	.0068547
_cons	3.444849	.0223237	154.31	0.000	3.401096	3.488603

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0148692	.0149813	.0020638	.107129
sd(_cons)	.2681312	.0116864	.2461773	.2920429
sd(Residual)	.2759287	.0116331	.2540449	.2996976

638 .
639 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4kobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,437

Group variable: HNDID

Number of groups = 783
Obs per group:
min = 1
avg = 1.8
max = 2
Average RVI = 0.0000
Largest FMI = 0.0000

DF adjustment: Large sample

<u>DF:</u> min = 1.57e+63
avg = 1.57e+63
max = .

Model F test: Equal FMI

F(11, 4.5e+65) = 14.09
Prob > F = 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3 w1Agecent48	.0019728 .0228722	.0076448 .00261	0.26 8.76	0.796 0.000	-.0130107 .0177568	.0169564 .0279877
c.timew1w3#c.w1Agecent48	.0004647	.0005232	0.89	0.374	-.0005608	.0014901
timew1w3 Sex Men	0 (omitted) .0457954	.0500968	0.91	0.361	-.0523925	.1439833
Sex#c.timew1w3 Men	-.0052903	.0099653	-0.53	0.596	-.0248218	.0142413

	timew1w3	0 (omitted)				
	Race AfrAm	0 (omitted)				
	Race#c.timew1w3 AfrAm	0 (omitted)				
	timew1w3	0 (omitted)				
	PovStat Below	.2266574	.049089	4.62	0.000	.1304448
	PovStat#c.timew1w3 Below	.011616	.0096929	1.20	0.231	-.0073817
	timew1w3 invmillsmms	0 (omitted) .0069489	.0047279	1.47	0.142	-.0023175
	c.timew1w3#c.invmillsmms	-.0019309	.0009056	-2.13	0.033	-.0037058
	timew1w3 zw1w3HCYTRAJ	0 (omitted) .0219849	.0236779	0.93	0.353	-.024423
	c.timew1w3#c.zw1w3HCYTRAJ	.0120676	.0045291	2.66	0.008	.0031908
	_cons	4.644761	.0381956	121.60	0.000	4.569899
						4.719623

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0661045	.026347	.0302671 .1443746
sd(_cons)	.5582137	.0403478	.4844795 .6431697
corr(timew1w3,_cons)	-.369543	.0881471	-.5284438 -.1856268
sd(Residual)	.3482377	.0562912	.2536778 .4780454

```

640 .
641 .
642 . save, replace
      file finaldata_imputed_FINAL.dta saved

643 .
644 .
645 . //MODEL 2: MODEL 1 + BODY MASS INDEX///
646 .
647 . 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
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Race==2 || HNDID: timew1w3, cov(un)

```

Multiple-imputation estimates Imputations = 5
 Mixed-effects ML regression Number of obs = 1,479

Group variable: HNDID Number of groups = 793
 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(25,39440.3) = 17.12
 Prob > F = 0.0000

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0436076	.0746539	0.58	0.559	-.102725	.1899402
w1Agecent48	-.0266357	.0074551	-3.57	0.000	-.0412509	-.0120206
c.timew1w3#c.w1Agecent48	-.0017859	.0016464	-1.08	0.278	-.0050136	.0014417
timew1w3	0 (omitted)					
Sex						
Men	-.2857308	.1426915	-2.00	0.045	-.5654031	-.0060585
Sex#c.timew1w3						
Men	-.0027953	.031304	-0.09	0.929	-.0641502	.0585597
timew1w3	0 (omitted)					
Race						
AfrAm	0 (omitted)					
Race#c.timew1w3						
AfrAm	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.1688353	.1395811	-1.21	0.226	-.4424092	.1047386
PovStat#c.timew1w3						
Below	-.0184123	.0303138	-0.61	0.544	-.0778263	.0410017
timew1w3	0 (omitted)					
w1edubr						
2	.5277271	.331532	1.59	0.112	-.1224843	1.177938
3	.7394552	.3520722	2.10	0.036	.0485287	1.430382
w1edubr#c.timew1w3						
2	-.0242233	.0725736	-0.33	0.739	-.1664776	.1180309
3	-.0480958	.0762286	-0.63	0.528	-.1975416	.1013501
timew1w3	0 (omitted)					
w1WRATtotalcent42	.1440744	.0095108	15.15	0.000	.1254311	.1627178
c.timew1w3#c.w1WRATtotalcent42	-.0059919	.0022392	-2.68	0.007	-.010381	-.0016029
timew1w3	0 (omitted)					
1.w1smoke	-.0502099	.1493052	-0.34	0.737	-.3430924	.2426726

w1smoke#c.timew1w3							
1	-.0421638	.0332316	-1.27	0.205	-.1073011	.0229736	
timew1w3	0	(omitted)					
1.w1currdrugs	-.1122013	.1928139	-0.58	0.562	-.4964229	.2720203	
w1currdrugs#c.timew1w3							
1	.0099898	.039969	0.25	0.803	-.0685824	.088562	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.0052554	.0076878	-0.68	0.499	-.0209006	.0103898	
c.timew1w3#c.w1hei2010_total_scorecent43							
	.0010739	.0017269	0.62	0.536	-.0023826	.0045304	
timew1w3	0	(omitted)					
w1BMIcon30	-.0137362	.009346	-1.47	0.142	-.032055	.0045826	
c.timew1w3#c.w1BMIcon30							
	-.0002091	.0020259	-0.10	0.918	-.0041807	.0037625	
timew1w3	0	(omitted)					
invmillsmms	-.0078267	.0101374	-0.77	0.440	-.0276958	.0120423	
c.timew1w3#c.invmillsmms							
	-.0023834	.0020571	-1.16	0.247	-.0064153	.0016486	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	-.0058513	.0644772	-0.09	0.928	-.1322244	.1205217	
c.timew1w3#c.zw1w3HCYTRAJ							
	.0017584	.0139638	0.13	0.900	-.0256101	.0291268	
_cons	27.26879	.342201	79.69	0.000	26.59785	27.93972	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0947819
sd(_cons)	1.315614
corr(timew1w3,_cons)	-1
sd(Residual)	1.265578

648 .
 649 .
 650 . 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.w1BMIcon30
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4aobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 1,479

Group variable: HNDID Number of groups = 793
 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(25,52237.2) = 14.18
 Prob > F = 0.0000

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0992396	.5748958	0.17	0.863	-1.027561	1.22604
w1Agecent48	-.2133221	.0537881	-3.97	0.000	-.3187656	-.1078786
c.timew1w3#c.w1Agecent48	-.0104796	.0126983	-0.83	0.409	-.0353731	.0144139
timew1w3	0 (omitted)					
Sex						
Men	-1.166868	1.029887	-1.13	0.257	-3.185417	.8516802
Sex#c.timew1w3						
Men	-.0836081	.2415956	-0.35	0.729	-.5571292	.3899129
timew1w3	0 (omitted)					
Race						
AfrAm	0 (omitted)					
Race#c.timew1w3						
AfrAm	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-1.496238	1.008284	-1.48	0.138	-3.472439	.4799629
PovStat#c.timew1w3						
Below	-.1697293	.2339724	-0.73	0.468	-.6283072	.2888486
timew1w3	0 (omitted)					
w1edubr						
2	2.785419	2.359151	1.18	0.238	-1.838855	7.409693
3	4.839064	2.506692	1.93	0.054	-.0760392	9.754166
w1edubr#c.timew1w3						
2	-.1640727	.5583889	-0.29	0.769	-1.258503	.9303579
3	-.2487434	.5861574	-0.42	0.671	-1.397708	.9002207
timew1w3	0 (omitted)					
w1WRATtotalcent42	.8892809	.0685524	12.97	0.000	.75491	1.023652
c.timew1w3#c.w1WRATtotalcent42	-.0230862	.0173112	-1.33	0.182	-.0570178	.0108454
timew1w3	0 (omitted)					
1.w1smoke	-.9013593	1.069721	-0.84	0.399	-2.998589	1.19587

w1smoke#c.timew1w3							
1	-.1086377	.2579027	-0.42	0.674	-.6142318	.3969563	
timew1w3	0	(omitted)					
1.w1currdrugs	-.4963043	1.358915	-0.37	0.716	-3.188769	2.19616	
w1currdrugs#c.timew1w3							
1	.0561354	.3082717	0.18	0.856	-.5499114	.6621822	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.0315694	.0555209	-0.57	0.573	-.1442735	.0811347	
c.timew1w3#c.w1hei2010_total_scorecent43							
1	.0105507	.0134485	0.78	0.436	-.0164248	.0375263	
timew1w3	0	(omitted)					
w1BMICent30	-.1026186	.0671756	-1.53	0.127	-.234281	.0290438	
c.timew1w3#c.w1BMICent30							
1	.0018242	.0155806	0.12	0.907	-.0287176	.032366	
timew1w3	0	(omitted)					
invmillsmms	-.0523064	.0732574	-0.71	0.475	-.1958883	.0912756	
c.timew1w3#c.invmillsmms							
1	-.0200638	.0158251	-1.27	0.205	-.0510809	.0109532	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	.0832056	.4653476	0.18	0.858	-.828859	.9952702	
c.timew1w3#c.zw1w3HCYTRAJ							
1	.0076654	.1078318	0.07	0.943	-.2036811	.2190118	
_cons	73.24707	2.450443	29.89	0.000	68.44386	78.05028	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.4605291
sd(_cons)	8.6626
corr(timew1w3,_cons)	-.9999998
sd(Residual)	9.941883

651 .
 652 .
 653 .
 654 . 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 ///
 > if sample4bobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 1,408

Group variable: HNDID Number of groups = 789
 Obs per group:
 min = 1
 avg = 1.8
 max = 2
 Average RVI = 0.0505
 Largest FMI = 0.3125
 DF adjustment: Large sample DF: min = 49.19
 avg = 2312486.92
 max = 2.74e+07
 Model F test: Equal FMI F(25,31410.1) = 32.23
 Prob > F = 0.0000

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.155228	.2138366	-5.40	0.000	-1.574481 -.7359749
w1Agecent48	-.1178396	.0234584	-5.02	0.000	-.1638214 -.0718578
c.timew1w3#c.w1Agecent48	-.0052263	.0050323	-1.04	0.299	-.0150896 .0046371
timew1w3	0 (omitted)				
Sex					
Men	-1.530125	.4537584	-3.37	0.001	-2.419476 -.6407741
Sex#c.timew1w3					
Men	-.237968	.0970038	-2.45	0.014	-.4280937 -.0478424
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race#c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.3994168	.4455439	-0.90	0.370	-1.272672 .4738383
PovStat#c.timew1w3					
Below	-.0556058	.0931504	-0.60	0.551	-.2381773 .1269658
timew1w3	0 (omitted)				
w1edubr					
2	-.9291386	1.0627	-0.87	0.383	-3.019957 1.161679
3	.6475401	1.117962	0.58	0.563	-1.550584 2.845665
w1edubr#c.timew1w3					
2	.175512	.2044728	0.86	0.391	-.2253772 .5764013
3	.0575208	.2178024	0.26	0.792	-.3694762 .4845178
timew1w3	0 (omitted)				
w1WRATtotalcent42	.2145722	.0296224	7.24	0.000	.1565105 .2726339
c.timew1w3#c.w1WRATtotalcent42	-.0061024	.0062422	-0.98	0.328	-.0183378 .0061329
timew1w3	0 (omitted)				
1.w1smoke	-.653147	.5336551	-1.22	0.227	-1.725461 .4191665

w1smoke#c.timew1w3							
1	-.0109436	.104767	-0.10	0.917	-.2166808	.1947936	
timew1w3	0	(omitted)					
1.w1currdrugs	.1393865	.5658851	0.25	0.806	-.977496	1.256269	
w1currdrugs#c.timew1w3							
1	.1515541	.1219747	1.24	0.215	-.0888189	.3919271	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	.0154283	.0211463	0.73	0.467	-.0264146	.0572712	
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3	0	(omitted)					
w1BMIcon30	-.0097493	.0292097	-0.33	0.739	-.0670008	.0475021	
c.timew1w3#c.w1BMIcon30							
timew1w3	0	(omitted)					
invmillsmms	.0324893	.0429128	0.76	0.449	-.0516183	.1165968	
c.timew1w3#c.invmillsmms							
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	.3720661	.2096666	1.77	0.076	-.0388731	.7830053	
c.timew1w3#c.zw1w3HCYTRAJ							
_cons	25.22479	1.108761	22.75	0.000	23.04364	27.40593	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3775127	.1179667	.204596	.6965717
sd(_cons)	4.183867	.1641824	3.87414	4.518357
sd(Residual)	3.546273	.173265	3.222403	3.902695

655 .
 656 .
 657 .
 658 . 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.w1BMIcon30
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4cobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 1,344

Group variable: HNDID Number of groups = 779
 Obs per group:
 min = 1
 avg = 1.7
 max = 2
 Average RVI = 0.0577
 Largest FMI = 0.2826
 DF adjustment: Large sample DF: min = 59.65
 avg = 1470575.15
 max = 3.02e+07
 Model F test: Equal FMI F(25,23912.7) = 18.19
 Prob > F = 0.0000

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.4279309	.1033822	-4.14	0.000	-.6305577 -.2253041
w1Agecent48	-.0771685	.0114172	-6.76	0.000	-.0995462 -.0547909
c.timew1w3#c.w1Agecent48	-.0020936	.0025195	-0.83	0.406	-.0070324 .0028452
timew1w3	0 (omitted)				
Sex					
Men	-.5913421	.2221604	-2.66	0.008	-1.02677 -.1559141
Sex#c.timew1w3					
Men	-.0489752	.0479106	-1.02	0.307	-.1428785 .0449281
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race#c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.1339703	.2184518	-0.61	0.540	-.5621467 .294206
PovStat#c.timew1w3					
Below	-.0232555	.0460777	-0.50	0.614	-.1135663 .0670552
timew1w3	0 (omitted)				
w1edubr					
2	-.7831848	.4992519	-1.57	0.117	-1.761873 .1955038
3	-.4683139	.5250145	-0.89	0.372	-1.497387 .560759
w1edubr#c.timew1w3					
2	.0615453	.099153	0.62	0.535	-.1327937 .2558844
3	.1169917	.105567	1.11	0.268	-.0899171 .3239005
timew1w3	0 (omitted)				
w1WRATtotalcent42	.0930523	.0145041	6.42	0.000	.0646243 .1214803
c.timew1w3#c.w1WRATtotalcent42	-.0056577	.0031024	-1.82	0.068	-.0117383 .0004229
timew1w3	0 (omitted)				
1.w1smoke	-.2018276	.2498391	-0.81	0.421	-.6982338 .2945787

w1smoke#c.timew1w3							
1	.0037547	.0540683	0.07	0.945	-.1029499	.1104592	
timew1w3	0 (omitted)						
1.w1currdrugs	-.1932861	.2691584	-0.72	0.473	-.7219375	.3353652	
w1currdrugs#c.timew1w3							
1	.0192867	.0597002	0.32	0.747	-.0981327	.136706	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	.0032465	.0108227	0.30	0.765	-.0183287	.0248217	
c.timew1w3#c.w1hei2010_total_scorecent43	-.0002373	.0025831	-0.09	0.927	-.0054048	.0049303	
timew1w3	0 (omitted)						
w1BMIcon30	.0202176	.0142979	1.41	0.157	-.007807	.0482423	
c.timew1w3#c.w1BMIcon30	.0003448	.0030363	0.11	0.910	-.0056065	.006296	
timew1w3	0 (omitted)						
invmillsmms	.0023114	.0229343	0.10	0.920	-.0426391	.0472619	
c.timew1w3#c.invmillsmms	-.0030571	.0044079	-0.69	0.488	-.0116963	.0055822	
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	.2138656	.1036329	2.06	0.039	.0107488	.4169824	
c.timew1w3#c.zw1w3HCYTRAJ	-.0304212	.0216765	-1.40	0.160	-.0729064	.012064	
_cons	7.887501	.5197252	15.18	0.000	6.868751	8.906252	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0479603	.2769321	5.83e-07	3943.734
sd(_cons)	1.90379	.0812868	1.750953	2.069968
sd(Residual)	1.806357	.0792835	1.657459	1.968631

659 .
 660 .
 661 .
 662 . 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.w1BMIcon30
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4dobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 1,539

Group variable: HNDID Number of groups = 802
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0327
 Largest FMI = 0.2727
 DF adjustment: Large sample DF: min = 63.87
 avg = 1.99e+09
 max = 5.78e+10
 Model F test: Equal FMI F(25,70532.1) = 18.01
 Prob > F = 0.0000

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.709346	.1683699	4.21	0.000	.3793467 1.039345
w1Agecent48	.1177333	.0185688	6.34	0.000	.0813387 .1541278
c.timew1w3#c.w1Agecent48	.0133377	.0040147	3.32	0.001	.0054688 .0212067
timew1w3	0 (omitted)				
Sex					
Men	-1.454818	.3568035	-4.08	0.000	-2.154141 -.7554957
Sex#c.timew1w3					
Men	.0483832	.0763528	0.63	0.526	-.1012671 .1980336
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race#c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	.1355242	.3526435	0.38	0.701	-.5556514 .8266999
PovStat#c.timew1w3					
Below	.0534436	.0738741	0.72	0.469	-.0913482 .1982354
timew1w3	0 (omitted)				
w1edubr					
2	-.77669	.8083808	-0.96	0.337	-2.361129 .8077491
3	-1.757317	.8503109	-2.07	0.039	-3.423906 -.0907276
w1edubr#c.timew1w3					
2	-.3049682	.1611932	-1.89	0.058	-.6209022 .0109658
3	-.2504539	.1718067	-1.46	0.145	-.5871944 .0862867
timew1w3	0 (omitted)				
w1WRATtotalcent42	-.1271804	.0241417	-5.27	0.000	-.1745275 -.0798333
c.timew1w3#c.w1WRATtotalcent42	-.0088729	.0050209	-1.77	0.077	-.0187137 .000968
timew1w3	0 (omitted)				
1.w1smoke	.3874235	.3733164	1.04	0.300	-.3450712 1.119918

w1smoke#c.timew1w3							
1	-.0860272	.0815935	-1.05	0.292	-.2459954	.073941	
timew1w3	0 (omitted)						
1.w1currdrugs	-.3007736	.4878261	-0.62	0.540	-1.275356	.6738093	
w1currdrugs#c.timew1w3							
1	.2040554	.096364	2.12	0.035	.0147548	.3933559	
timew1w3	0 (omitted)						
w1hei2010_total_scorecent43	.0192143	.016713	1.15	0.252	-.0138303	.0522589	
c.timew1w3#c.w1hei2010_total_scorecent43							
	-.0075948	.0037584	-2.02	0.044	-.014973	-.0002166	
timew1w3	0 (omitted)						
w1BMIcon30	.0060351	.0234308	0.26	0.797	-.0398908	.0519611	
c.timew1w3#c.w1BMIcon30							
	-.0033601	.0049423	-0.68	0.497	-.0130472	.006327	
timew1w3	0 (omitted)						
invmillsmms	.0139558	.0271923	0.51	0.608	-.0393401	.0672518	
c.timew1w3#c.invmillsmms							
	-.0009153	.0054474	-0.17	0.867	-.0115921	.0097615	
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	-.0577972	.1610719	-0.36	0.720	-.3734924	.2578981	
c.timew1w3#c.zw1w3HCYTRAJ							
	.0617741	.0331568	1.86	0.062	-.0032121	.1267604	
_cons	8.281493	.8396591	9.86	0.000	6.63579	9.927197	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	7.37e-07	.0003052	0	.
sd(_cons)	3.257109	.1329937	3.006604	3.528487
sd(Residual)	3.228698	.0849324	3.06645	3.39953

663 .

664 .

665 . 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.w1BMIcon30
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4eobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,404

Group variable: HNDID Number of groups = 791
 Obs per group:
 min = 1
 avg = 1.8
 max = 2
 Average RVI = .
 Largest FMI = .
 DF adjustment: Large sample DF: min = 0.00
 avg = .
 max = .
 Model F test: Equal FMI F(25,77883.8) = 6.25
 Prob > F = 0.0000

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0428302	.081718	-0.52	0.600	-.2029953 .1173349
w1Agecent48		-.0235465	.0087356	-2.70	0.007	-.0406693 -.0064237
c.timew1w3#c.w1Agecent48		-.0010524	.0018792	-0.56	0.575	-.0047356 .0026307
	timew1w3	0	(omitted)			
	Sex					
Men		-.1641472	.1672045	-0.98	0.326	-.4918625 .1635682
	Sex#c.timew1w3					
Men		-.0242876	.0357157	-0.68	0.496	-.0942891 .0457138
	timew1w3	0	(omitted)			
	Race					
AfrAm		0	(omitted)			
	Race#c.timew1w3					
AfrAm		0	(omitted)			
	timew1w3	0	(omitted)			
	PovStat					
Below		-.156383	.1638612	-0.95	0.340	-.4775496 .1647836
	PovStat#c.timew1w3					
Below		-.0577015	.0343947	-1.68	0.093	-.125114 .0097111
	timew1w3	0	(omitted)			
	w1edubr					
2		.2199229	.3825298	0.57	0.565	-.5298866 .9697323
3		.3806559	.4028322	0.94	0.345	-.40899 1.170302
	w1edubr#c.timew1w3					
2		.0574135	.0792257	0.72	0.469	-.0978675 .2126945
3		.0602675	.0829321	0.73	0.467	-.1022766 .2228115
	timew1w3	0	(omitted)			
w1WRATtotalcent42		.0743709	.0109609	6.79	0.000	.0528874 .0958544
c.timew1w3#c.w1WRATtotalcent42		.0026151	.0023611	1.11	0.268	-.0020126 .0072428
	timew1w3	0	(omitted)			
1.w1smoke		-.0962923	.1863245	-0.52	0.606	-.464866 .2722815

w1smoke#c.timew1w3							
1	-.0354762	.0380105	-0.93	0.351	-.1099837	.0390313	
timew1w3	0	(omitted)					
1.w1currdrugs	.3339046	.2046424	1.63	0.103	-.0682738	.7360829	
w1currdrugs#c.timew1w3							
1	-.033717	.0429941	-0.78	0.433	-.1179865	.0505525	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.0027369	.0078498	-0.35	0.728	-.018248	.0127742	
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3	0	(omitted)					
w1BMICent30	-.0223155	.0110691	-2.02	0.044	-.0440112	-.0006199	
c.timew1w3#c.w1BMICent30							
timew1w3	0	(omitted)					
invmillsmms	-.0098264	.0153017	-0.64	0.521	-.0398171	.0201644	
c.timew1w3#c.invmillsmms							
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	.0390414	.0773145	0.50	0.614	-.1124923	.1905751	
c.timew1w3#c.zw1w3HCYTRAJ							
_cons	6.242932	.3982112	15.68	0.000	5.462351	7.023514	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0138751
sd(_cons)	1.461351
corr(timew1w3,_cons)	.9999895
sd(Residual)	1.414246

666 .

667 . 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 /// > if sample4fobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,556

Group variable: HNDID Number of groups = 804
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0467
 Largest FMI = 0.3212
 DF adjustment: Large sample DF: min = 46.69
 avg = 5.30e+07
 max = 1.57e+09
 Model F test: Equal FMI F(25,33277.7) = 4.68
 Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.2251909	.1564003	-1.44	0.150	-.5317317 .08135
w1Agecent48	-.0563468	.0191988	-2.93	0.003	-.093976 -.0187176
c.timew1w3#c.w1Agecent48	-.0039882	.0035978	-1.11	0.268	-.0110397 .0030633
timew1w3	0 (omitted)				
Sex					
Men	1.642324	.3708086	4.43	0.000	.9155485 2.369101
Sex#c.timew1w3					
Men	.03322	.0687787	0.48	0.629	-.1015842 .1680242
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race#c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.3016437	.3663946	-0.82	0.410	-1.019804 .4165169
PovStat#c.timew1w3					
Below	.0428283	.0668244	0.64	0.522	-.0881455 .1738021
timew1w3	0 (omitted)				
w1edubr					
2	-.7568664	.8462385	-0.89	0.371	-2.415738 .9020051
3	-.1531359	.8844019	-0.17	0.863	-1.886561 1.580289
w1edubr#c.timew1w3					
2	.2648495	.1505126	1.76	0.078	-.0301519 .5598508
3	.2437735	.1590537	1.53	0.125	-.0679671 .5555141
timew1w3	0 (omitted)				
w1WRATtotalcent42	.1375235	.0243532	5.65	0.000	.0897868 .1852602
c.timew1w3#c.w1WRATtotalcent42	.0004945	.0044971	0.11	0.912	-.0083197 .0093086
timew1w3	0 (omitted)				
1.w1smoke	-.320212	.435316	-0.74	0.466	-1.196108 .5556837

w1smoke#c.timew1w3							
1	.0022968	.076358	0.03	0.976	-.1478425	.1524362	
timew1w3	0	(omitted)					
1.w1currdrugs	.1546306	.5017372	0.31	0.759	-.8519165	1.161178	
w1currdrugs#c.timew1w3							
1	-.0705354	.0853396	-0.83	0.409	-.2379361	.0968653	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	.009472	.0154674	0.61	0.540	-.0208812	.0398253	
c.timew1w3#c.w1hei2010_total_scorecent43							
timew1w3	0	(omitted)					
w1BMIcon30	.0287271	.0244441	1.18	0.240	-.0191916	.0766458	
c.timew1w3#c.w1BMIcon30							
timew1w3	0	(omitted)					
invmillsmms	-.0184186	.0395492	-0.47	0.641	-.0959337	.0590964	
c.timew1w3#c.invmillsmms							
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	-.0100155	.1674498	-0.06	0.952	-.3382111	.3181802	
c.timew1w3#c.zw1w3HCYTRAJ							
_cons	18.31711	.8804046	20.81	0.000	16.59131	20.04291	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.494121	.1477041	.2750359	.8877226
sd(_cons)	4.147882	.2394453	3.704153	4.644766
corr(timew1w3,_cons)	-.3267961	.0858311	-.4835268	-.1497622
sd(Residual)	2.36526	.3421717	1.781307	3.140644

668 .
669 . 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.w1BMIcon30
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Race==2 || HNDID: timew1w3, cov(un)
convergence not achieved
model did not converge on m=3
r(498);

end of do-file

r(498);

```

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

671 .
672 . 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.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs   =  1,529

Group variable: HNDID                Number of groups =     803
                                         Obs per group:
                                         min =        1
                                         avg =      1.9
                                         max =        2
                                         Average RVI =    0.0925
                                         Largest FMI =  0.5002
DF adjustment: Large sample          DF:      min =    19.60
                                         avg =  5.67e+07
                                         max = 1.64e+09
Model F test: Equal FMI             F(  25, 9937.1) =    7.17
                                         Prob > F     = 0.0000

```

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0613997	.0593142	1.04	0.301	-.0548559	.1776553
w1Agecent48	-.0065961	.0076215	-0.87	0.387	-.0215343	.0083422
c.timew1w3##c.w1Agecent48	-.0057071	.001423	-4.01	0.000	-.0084963	-.002918
timew1w3	0	(omitted)				
Sex						
Men	.1584874	.1469852	1.08	0.281	-.1295997	.4465745
Sex##c.timew1w3						
Men	-.0572032	.0270662	-2.11	0.035	-.1102521	-.0041542
timew1w3	0	(omitted)				
Race						
AfrAm	0	(omitted)				
Race##c.timew1w3						
AfrAm	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	-.1810932	.1445951	-1.25	0.210	-.4645051	.1023187
PovStat##c.timew1w3						
Below	-.0419116	.0260581	-1.61	0.108	-.0929845	.0091613
timew1w3	0	(omitted)				
w1edubr						
2	-.0246982	.3363822	-0.07	0.941	-.6842435	.634847
3	-.0416917	.3559008	-0.12	0.907	-.7396826	.6562991
w1edubr##c.timew1w3						

		2	- .0344898	.0568437	-0.61	0.544	-.1459036	.0769241
		3	-.0290951	.0602393	-0.48	0.629	-.1471627	.0889724
	timew1w3		0	(omitted)				
	w1WRATTtotalcent42		.0930948	.0098526	9.45	0.000	.0737622	.1124275
c.timew1w3#c.w1WRATTtotalcent42			-.0001749	.0017494	-0.10	0.920	-.0036036	.0032538
	timew1w3		0	(omitted)				
	1.w1smoke		.0053193	.165217	0.03	0.974	-.3240493	.334688
w1smoke#c.timew1w3			-.0003751	.0290466	-0.01	0.990	-.05734	.0565898
	timew1w3		0	(omitted)				
	1.w1currdrugs		.490083	.1808341	2.71	0.007	.1334952	.8466708
w1currdrugs#c.timew1w3			-.0148574	.0339108	-0.44	0.661	-.0814322	.0517173
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			.0001039	.0080292	0.01	0.990	-.0166665	.0168742
c.timew1w3#c.w1hei2010_total_scorecent43			.0001178	.0014491	0.08	0.935	-.0027649	.0030006
	timew1w3		0	(omitted)				
w1BMIcon30			-.0120561	.0096889	-1.24	0.213	-.0310521	.0069398
c.timew1w3#c.w1BMIcon30			-.0013403	.0017409	-0.77	0.441	-.0047527	.0020721
	timew1w3		0	(omitted)				
invmillsmms			-.008452	.0132805	-0.64	0.525	-.0344812	.0175773
c.timew1w3#c.invmillsmms			.0000588	.0024583	0.02	0.981	-.0047593	.0048769
	timew1w3		0	(omitted)				
zw1w3HCYTRAJ			.0264034	.0664567	0.40	0.691	-.1038495	.1566564
c.timew1w3#c.zw1w3HCYTRAJ			-.0167615	.0118731	-1.41	0.158	-.0400323	.0065093
	_cons		7.035882	.3474114	20.25	0.000	6.354888	7.716875

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	7.41e-07	.0003089	0		.
sd(_cons)	1.513215	.0503345	1.417708	1.615156	
sd(Residual)	1.131543	.0296184	1.074955	1.191109	

673 .
 674 . 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 ///
 > if sample4hobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 1,520

Group variable: HNDID

Number of groups = 803
 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(25, 42298.9) = 10.91
 Prob > F = 0.0000

	DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.0813181	.0626462	-1.30	0.194	-.204103 .0414668
w1Agecent48		-.0179871	.0069477	-2.59	0.010	-.0316047 -.0043695
c.timew1w3#c.w1Agecent48		-.0007737	.0015028	-0.51	0.607	-.0037191 .0021717
timew1w3		0	(omitted)			
Sex						
Men		.0263458	.1346638	0.20	0.845	-.2375983 .2902898
Sex#c.timew1w3						
Men		-.0657264	.0287097	-2.29	0.022	-.1219967 -.0094561
timew1w3		0	(omitted)			
Race						
AfrAm		0	(omitted)			
Race#c.timew1w3						
AfrAm		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		-.209569	.1312819	-1.60	0.110	-.4668818 .0477438
PovStat#c.timew1w3						
Below		.0069796	.0275996	0.25	0.800	-.0471147 .061074
timew1w3		0	(omitted)			
w1edubr						
2		-.1397113	.3013376	-0.46	0.643	-.7303348 .4509122
3		-.0245093	.3176217	-0.08	0.938	-.6470497 .5980311
w1edubr#c.timew1w3						
2		.0732653	.059909	1.22	0.221	-.0441544 .1906849
3		.0777572	.0636689	1.22	0.222	-.0470316 .202546

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1096892	.0088068	12.46	0.000	.0924274	.126951
c.timew1w3#c.w1WRATtotalcent42		-.0024002	.0018688	-1.28	0.199	-.0060631	.0012626
	timew1w3	0	(omitted)				
	1.w1smoke	-.1731345	.1393636	-1.24	0.214	-.4465971	.1003282
w1smoke#c.timew1w3		.0174384	.031433	0.55	0.579	-.0443058	.0791825
	timew1w3	0	(omitted)				
	1.w1currdrugs	.1533403	.1808971	0.85	0.400	-.2077413	.5144219
w1currdrugs#c.timew1w3		.0338993	.037741	0.90	0.370	-.0406453	.1084439
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0066507	.0060036	-1.11	0.269	-.0184585	.0051572
c.timew1w3#c.w1hei2010_total_scorecent43		.0019522	.0015354	1.27	0.207	-.0011049	.0050094
	timew1w3	0	(omitted)				
	w1BMICent30	-.000268	.0088169	-0.03	0.976	-.0175516	.0170156
c.timew1w3#c.w1BMICent30		-.0042594	.0018413	-2.31	0.021	-.0078684	-.0006505
	timew1w3	0	(omitted)				
	invmillsmms	.012131	.0125175	0.97	0.332	-.0124029	.0366648
c.timew1w3#c.invmillsmms		-.0055974	.0025234	-2.22	0.027	-.0105432	-.0006516
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.042637	.0606687	-0.70	0.482	-.1615455	.0762714
c.timew1w3#c.zw1w3HCYTRAJ		.0121151	.0126325	0.96	0.338	-.0126441	.0368743
	_cons	5.503646	.3138219	17.54	0.000	4.888561	6.118732

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.009097	.	.
sd(_cons)	1.222584	.	.
corr(timew1w3,_cons)	.999999	.	.
sd(Residual)	1.197505	.	.

675 .

```
676 . 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 ///
> if sample4iobs==1 & Race==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,545
Group variable: HNDID		
Number of groups	=	803
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0486
Largest FMI	=	0.2525
DF: min	=	73.98
avg	=	7483886.91
max	=	1.34e+08
Model F test: Equal FMI	F(25, 31174.2)	= 3.25
	Prob > F	= 0.0000

DF adjustment: Large sample

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.03681	.0549508	-0.67	0.503	-.1445424 .0709225
w1Agecent48	-.0011167	.004906	-0.23	0.820	-.0107324 .0084989
c.timew1w3##c.w1Agecent48	-.0020351	.0012491	-1.63	0.103	-.0044835 .0004133
timew1w3	0 (omitted)				
Sex					
Men	.1625568	.0946718	1.72	0.086	-.0229967 .3481103
Sex##c.timew1w3					
Men	.0128327	.0237927	0.54	0.590	-.0338002 .0594656
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race##c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	.0632626	.093151	0.68	0.497	-.1193106 .2458358
PovStat##c.timew1w3					
Below	.0029432	.0230648	0.13	0.898	-.042263 .0481494
timew1w3	0 (omitted)				
w1edubr					
2	.2221504	.2210613	1.00	0.315	-.2113963 .6556971
3	.3495779	.232656	1.50	0.133	-.1066893 .8058451
w1edubr##c.timew1w3					
2	.0186151	.0529792	0.35	0.725	-.0852543 .1224845
3	.047962	.0562673	0.85	0.394	-.062375 .1582989

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.0296091	.0062298	4.75	0.000	.0173988	.0418195
c.timew1w3#c.w1WRATtotalcent42		-.001155	.0015636	-0.74	0.460	-.00422	.00191
	timew1w3	0	(omitted)				
	1.w1smoke	-.0221429	.1105468	-0.20	0.842	-.2420266	.1977407
w1smoke#c.timew1w3							
1		.0153411	.0258394	0.59	0.553	-.0353831	.0660652
	timew1w3	0	(omitted)				
	1.w1currdrugs	.2709427	.122694	2.21	0.028	.0289471	.5129382
w1currdrugs#c.timew1w3							
1		-.0513814	.0304278	-1.69	0.092	-.111253	.0084903
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0001163	.0047772	-0.02	0.981	-.0096351	.0094024
c.timew1w3#c.w1hei2010_total_scorecent43		.0007133	.0012054	0.59	0.555	-.0016657	.0030924
	timew1w3	0	(omitted)				
	w1BMICent30	-.0039513	.0062099	-0.64	0.525	-.0161227	.0082202
c.timew1w3#c.w1BMICent30							
	timew1w3	0	(omitted)				
	invmillsmms	.0059771	.0092657	0.65	0.519	-.0121833	.0241376
c.timew1w3#c.invmillsmms							
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.0238856	.0427159	-0.56	0.576	-.1076072	.059836
c.timew1w3#c.zw1w3HCYTRAJ							
	_cons	8.269137	.2300417	35.95	0.000	7.817932	8.720341

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.1326347	.0417608	.0715562	.2458483	
sd(_cons)	.8120657	.0872394	.6578802	1.002387	
corr(timew1w3,_cons)	-.4731027	.099983	-.6449121	-.2557748	
sd(Residual)	.9037679	.0709467	.7748837	1.054089	

677 .

```
678 . 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.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4jobs==1 & Race==2 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	1,499
Group variable: HNDID	Number of groups	=	793
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	0.0309
	Largest FMI	=	0.2950
DF adjustment: Large sample	DF: min	=	54.94
	avg	=	8308217.62
	max	=	1.93e+08
Model F test: Equal FMI	F(25, 77590.4)	=	10.15
	Prob > F	=	0.0000

	LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0152241	.0150452	1.01	0.312	-.0142643	.0447124
w1Agecent48	.0140675	.0015615	9.01	0.000	.0110069	.0171281
c.timew1w3#c.w1Agecent48	.0006056	.0003504	1.73	0.084	-.0000813	.0012924
timew1w3	0	(omitted)				
Sex						
Men	.1304737	.0300731	4.34	0.000	.0715315	.1894159
Sex#c.timew1w3						
Men	-.0066265	.0067016	-0.99	0.323	-.0197615	.0065085
timew1w3	0	(omitted)				
Race						
AfrAm	0	(omitted)				
Race#c.timew1w3						
AfrAm	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	.0762257	.0295171	2.58	0.010	.0183731	.1340782
PovStat#c.timew1w3						
Below	.0055104	.0064369	0.86	0.392	-.0071057	.0181265
timew1w3	0	(omitted)				
w1edubr						
2	-.0199353	.0711698	-0.28	0.779	-.1595373	.1196667
3	-.0097259	.0743586	-0.13	0.896	-.1555512	.1360994
w1edubr#c.timew1w3						
2	-.0079085	.0145472	-0.54	0.587	-.0364238	.0206069
3	-.0159246	.0152936	-1.04	0.298	-.0458998	.0140506

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	- .0070292	.002026	-3.47	0.001	-.0110002	-.0030583
c.timew1w3#c.w1WRATtotalcent42		- .000751	.0004439	-1.69	0.091	-.0016211	.0001191
	timew1w3	0	(omitted)				
	1.w1smoke	- .0068532	.0331918	-0.21	0.837	-.0723291	.0586227
	w1smoke#c.timew1w3						
	1	.0007367	.0072261	0.10	0.919	-.0134384	.0149118
	timew1w3	0	(omitted)				
	1.w1currdrugs	.0875631	.036548	2.40	0.017	.0158589	.1592674
	w1currdrugs#c.timew1w3						
	1	-.0099719	.0082583	-1.21	0.227	-.0261729	.006229
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	- .0001425	.0015132	-0.09	0.925	-.0031751	.0028901
c.timew1w3#c.w1hei2010_total_scorecent43		.0001867	.0003341	0.56	0.577	-.0004703	.0008437
	timew1w3	0	(omitted)				
	w1BMICent30	.0041932	.0019526	2.15	0.032	.0003662	.0080202
c.timew1w3#c.w1BMICent30		-.0006556	.0004272	-1.53	0.125	-.0014928	.0001817
	timew1w3	0	(omitted)				
	invmillsmms	.0114044	.002807	4.06	0.000	.0059027	.016906
c.timew1w3#c.invmillsmms		-.0012716	.0005783	-2.20	0.028	-.0024051	-.000138
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.0209632	.0136515	1.54	0.125	-.0057933	.0477197
c.timew1w3#c.zw1w3HCYTRAJ		.0001834	.0029325	0.06	0.950	-.0055641	.0059309
	_cons	3.445427	.0730755	47.15	0.000	3.302163	3.588691

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0106185	.0202365	.0002534	.4449039
sd(_cons)	.2606513	.0115295	.2390057	.2842573
sd(Residual)	.2752957	.0113225	.253975	.2984064

679 .

```
680 . 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 ///
> if sample4kobs==1 & Race==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,437

Group variable: HNDID

Number of groups = 783
Obs per group:

- min = 1
- avg = 1.8
- max = 2

Average RVI = 0.0757
Largest FMI = 0.4510

DF adjustment: Large sample

DF: min = 24.11
avg = 1742824.03
max = 4.27e+07

Model F test: Equal FMI

F(25, 13529.0) = 11.16
Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0439823	.0236359	1.86	0.063	-.0023468	.0903114
w1Agecent48	.021167	.0026043	8.13	0.000	.0160619	.026272
c.timew1w3#c.w1Agecent48	.0003716	.0005382	0.69	0.490	-.0006833	.0014264
timew1w3	0 (omitted)					
Sex						
Men	.0510284	.0499295	1.02	0.307	-.0468324	.1488893
Sex#c.timew1w3						
Men	-.0077352	.0102393	-0.76	0.450	-.0278039	.0123334
timew1w3	0 (omitted)					
Race						
AfrAm	0 (omitted)					
Race#c.timew1w3						
AfrAm	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	.1509403	.0491001	3.07	0.002	.0547039	.2471766
PovStat#c.timew1w3						
Below	.0041561	.0099338	0.42	0.676	-.015314	.0236262
timew1w3	0 (omitted)					
w1edubr						
2	-.0441379	.1162499	-0.38	0.704	-.2720146	.1837388
3	-.1619647	.1214179	-1.33	0.182	-.3999541	.0760246
w1edubr#c.timew1w3						
2	-.0510682	.0227174	-2.25	0.025	-.0955944	-.006542
3	-.0487551	.0238344	-2.05	0.041	-.0954709	-.0020392

	timew1w3	0	(omitted)				
	w1WRATtotalcent42	- .0241153	.0033923	-7.11	0.000	-.0307644	-.0174663
c.timew1w3#c.w1WRATtotalcent42		- .0004157	.0006986	-0.60	0.552	-.0017849	.0009534
	timew1w3	0	(omitted)				
	1.w1smoke	- .0116038	.054911	-0.21	0.833	-.120056	.0968485
	w1smoke#c.timew1w3						
	1	.0211478	.0121213	1.74	0.084	-.0029007	.0451964
	timew1w3	0	(omitted)				
	1.w1currdrugs	.0159576	.0690667	0.23	0.818	-.1229209	.1548362
	w1currdrugs#c.timew1w3						
	1	-.00257	.0135659	-0.19	0.850	-.0293775	.0242375
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0016242	.0027241	0.60	0.557	-.0039966	.007245
c.timew1w3#c.w1hei2010_total_scorecent43		.0000202	.0005285	0.04	0.970	-.0010218	.0010621
	timew1w3	0	(omitted)				
	w1BMICent30	.0027156	.003265	0.83	0.406	-.0036849	.0091161
c.timew1w3#c.w1BMICent30		-.0003719	.000666	-0.56	0.577	-.0016777	.0009339
	timew1w3	0	(omitted)				
	invmillsmms	.0076713	.0045738	1.68	0.094	-.0012933	.0166359
c.timew1w3#c.invmillsmms		-.0017808	.0008892	-2.00	0.045	-.0035236	-.0000379
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.011424	.0227182	0.50	0.615	-.033103	.0559509
c.timew1w3#c.zw1w3HCYTRAJ		.0115778	.0044652	2.59	0.010	.0028262	.0203293
	_cons	4.741169	.1203702	39.39	0.000	4.505226	4.977112

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0541631	.0321538	.0169195	.1733882
sd(_cons)	.5098585	.0436209	.4311467	.6029402
corr(timew1w3,_cons)	-.425184	.0856157	-.5775889	-.2441375
sd(Residual)	.3662501	.0540197	.274303	.4890183

```

681 .
682 .
683 . save, replace
      file finaldata_imputed_FINAL.dta saved

684 .
685 .
686 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
687 .
688 . 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##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Race==2 || HNDID: timew1w3, cov(un)

```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,479

Group variable: HNDID

Number of groups	=	793
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(41,72280.5)	=	10.94
Prob > F	=	0.0000	

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0642308	.0862057	0.75	0.456	-.1047358	.2331973
w1Agecent48	-.0316317	.008271	-3.82	0.000	-.0478478	-.0154156
c.timew1w3#c.w1Agecent48	-.0009442	.0018167	-0.52	0.603	-.0045055	.0026172
timew1w3	0	(omitted)				
Sex						
Men	-.3261289	.1469508	-2.22	0.026	-.6141865	-.0380713
Sex#c.timew1w3						
Men	.0022009	.0321962	0.07	0.946	-.060913	.0653149
timew1w3	0	(omitted)				
Race						
AfrAm	0	(omitted)				
Race#c.timew1w3						
AfrAm	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	-.1346152	.1410903	-0.95	0.340	-.4111476	.1419172
PovStat#c.timew1w3						
Below	-.0194733	.0305727	-0.64	0.524	-.0793947	.0404482

	timew1w3	0	(omitted)				
w1edubr							
2	.4924539	.329981	1.49	0.136	-.1545481	1.139456	
3	.6937127	.3510089	1.98	0.048	.0051493	1.382276	
w1edubr#c.timew1w3							
2	-.0176954	.0723842	-0.24	0.807	-.15957	.1241793	
3	-.0433357	.0759646	-0.57	0.568	-.1922402	.1055688	
timew1w3	0	(omitted)					
w1WRATtotalcent42	.1409939	.0095918	14.70	0.000	.1221916	.1597962	
c.timew1w3#c.w1WRATtotalcent42	-.0057098	.0022638	-2.52	0.012	-.0101474	-.0012722	
timew1w3	0	(omitted)					
1.w1smoke	.0076234	.1497935	0.05	0.959	-.2861177	.3013644	
w1smoke#c.timew1w3							
1	-.0469018	.0334621	-1.40	0.161	-.1124873	.0186837	
timew1w3	0	(omitted)					
1.w1currdrugs	-.0409488	.1935942	-0.21	0.833	-.4260766	.3441791	
w1currdrugs#c.timew1w3							
1	.0072045	.0411802	0.17	0.861	-.0738613	.0882704	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.006499	.007765	-0.84	0.409	-.0223145	.0093165	
c.timew1w3#c.w1hei2010_total_scorecent43	.0013069	.0017384	0.75	0.455	-.0021735	.0047872	
timew1w3	0	(omitted)					
w1BMIcon30	-.0149966	.0101331	-1.48	0.139	-.0348634	.0048703	
c.timew1w3#c.w1BMIcon30	.0008271	.0021527	0.38	0.701	-.0033921	.0050463	
timew1w3	0	(omitted)					
w1SRH							
2	.1291649	.1883296	0.69	0.493	-.2399592	.498289	
3	.1386959	.1996071	0.69	0.487	-.2525364	.5299283	
w1SRH#c.timew1w3							
2	.0150643	.0418227	0.36	0.719	-.0669074	.0970359	
3	-.0217422	.044053	-0.49	0.622	-.1080848	.0646004	
timew1w3	0	(omitted)					
w1CEScent15	-.0131634	.0067098	-1.96	0.050	-.0263148	-.0000119	
c.timew1w3#c.w1CEScent15	.0005999	.0015082	0.40	0.691	-.0023565	.0035562	
timew1w3	0	(omitted)					
w1dxHTN							
Yes	.1137329	.1527068	0.74	0.456	-.1855935	.4130593	
w1dxHTN#c.timew1w3							
Yes	-.0207593	.0343987	-0.60	0.546	-.0882294	.0467109	
timew1w3	0	(omitted)					
w1dxDiabetes							

	preDiabetes	.1947081	.1958499	0.99	0.321	-.1901373	.5795535
	Diabetes	-.0760002	.2246846	-0.34	0.736	-.5194786	.3674781
w1dxDiabetes#c.timew1w3							
preDiabetes		-.0237561	.0419025	-0.57	0.571	-.1059161	.0584039
Diabetes		-.0579799	.0498448	-1.16	0.245	-.1559033	.0399434
timew1w3		0	(omitted)				
w1CVhighChol							
Yes		.1844887	.1789377	1.03	0.303	-.1666967	.5356742
w1CVhighChol#c.timew1w3							
Yes		-.0256496	.0405296	-0.63	0.527	-.1051485	.0538494
timew1w3		0	(omitted)				
1.w1cvdbr		-.0132837	.1957701	-0.07	0.946	-.39979	.3732227
w1cvdbr#c.timew1w3							
1		.026631	.0436918	0.61	0.543	-.0594173	.1126793
timew1w3		0	(omitted)				
invmillsmms		-.0093737	.0101341	-0.92	0.355	-.0292361	.0104887
c.timew1w3#c.invmillsmms		-.0022875	.0020558	-1.11	0.266	-.0063169	.0017418
timew1w3		0	(omitted)				
zw1w3HCYTRAJ		-.0146671	.0649297	-0.23	0.821	-.141927	.1125928
c.timew1w3#c.zw1w3HCYTRAJ		.0049941	.0141041	0.35	0.723	-.0226493	.0326376
_cons		27.02711	.3927392	68.82	0.000	26.25697	27.79725

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.095227
sd(_cons)	1.311191
corr(timew1w3,_cons)	-1
sd(Residual)	1.258048

689 .

690 .

```
691 . 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##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4aobs==1 & Race==2 || HNDID: timew1w3
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,479

Group variable: HNDID Number of groups = 793
 Obs per group:
 min = 1
 avg = 1.9
 max = 2
 Average RVI = 0.0407
 Largest FMI = 0.3831
 DF adjustment: Large sample DF: min = 33.22
 avg = 6.71e+08
 max = 3.02e+10
 Model F test: Equal FMI F(41, 86773.6) = 9.11
 Prob > F = 0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.2389606	.6775092	0.35	0.724	-1.08901 1.566931
w1Agecent48	-.2402572	.0564042	-4.26	0.000	-.3508102 -.1297043
c.timew1w3#c.w1Agecent48	-.0075787	.014031	-0.54	0.589	-.0350807 .0199232
timew1w3	0 (omitted)				
Sex					
Men	-1.578924	1.009151	-1.56	0.118	-3.556898 .3990507
Sex#c.timew1w3					
Men	-.0512176	.2485649	-0.21	0.837	-.5384237 .4359884
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race#c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-1.29373	.9737773	-1.33	0.184	-3.202304 .6148433
PovStat#c.timew1w3					
Below	-.1816188	.2374721	-0.76	0.444	-.6470557 .283818
timew1w3	0 (omitted)				
w1edubr					
2	2.492182	2.255233	1.11	0.269	-1.928366 6.91273
3	4.446162	2.402931	1.85	0.064	-.2655366 9.157861
w1edubr#c.timew1w3					
2	-.1400412	.5675695	-0.25	0.805	-1.252459 .9723766
3	-.2165993	.5935832	-0.36	0.715	-1.380042 .9468434
timew1w3	0 (omitted)				
w1WRATtotalcent42	.8668377	.0661397	13.11	0.000	.7371915 .9964839
c.timew1w3#c.w1WRATtotalcent42	-.0197231	.0177488	-1.11	0.266	-.0545136 .0150673
timew1w3	0 (omitted)				
1.w1smoke	-.5196092	1.026249	-0.51	0.613	-2.531297 1.492078

w1smoke#c.timew1w3						
1	-.149073	.2609467	-0.57	0.568	-.6605448	.3623988
timew1w3	0	(omitted)				
1.w1currdrugs	-.0481581	1.333196	-0.04	0.971	-2.697539	2.601223
w1currdrugs#c.timew1w3						
1	.0339961	.3183861	0.11	0.915	-.5923921	.6603844
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	-.0386984	.0538536	-0.72	0.477	-.1482373	.0708406
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3	0	(omitted)				
w1BMIcon30	-.114458	.0692445	-1.65	0.098	-.2501812	.0212651
c.timew1w3#c.w1BMIcon30						
timew1w3	0	(omitted)				
w1SRH						
2	.337996	1.299683	0.26	0.795	-2.209359	2.885351
3	1.454207	1.379903	1.05	0.292	-1.25046	4.158874
w1SRH#c.timew1w3						
2	.105146	.325496	0.32	0.747	-.5328179	.74311
3	-.2331573	.3428784	-0.68	0.497	-.9051894	.4388748
timew1w3	0	(omitted)				
w1CEScent15						
timew1w3	0	(omitted)				
w1CEScent15	-.0796763	.0462823	-1.72	0.085	-.1703905	.0110378
c.timew1w3#c.w1CEScent15						
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.0020984	.0117373	0.18	0.858	-.0209081	.025105
w1dxHTN#c.timew1w3						
Yes	.7504851	1.063165	0.71	0.480	-1.333719	2.834689
timew1w3	0	(omitted)				
w1dxDiabetes						
preDiabetes	1.846055	1.333766	1.38	0.167	-.7711398	4.463249
Diabetes	.2832463	1.509925	0.19	0.851	-2.684794	3.251286
w1dxDiabetes#c.timew1w3						
preDiabetes	-.1195979	.3210807	-0.37	0.710	-.7489201	.5097244
Diabetes	-.3691468	.3817497	-0.97	0.334	-1.118023	.3797291
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	.4623003	1.22005	0.38	0.705	-1.929944	2.854544
w1CVhighChol#c.timew1w3						
Yes	-.0607677	.3233285	-0.19	0.851	-.6964111	.5748756
timew1w3	0	(omitted)				
1.w1cvdbr	-.298825	1.373428	-0.22	0.828	-3.016205	2.418555

w1cvdbr#c.timew1w3		.1096931	.3426511	0.32	0.749	-.565829	.7852151
timew1w3	0 (omitted)						
invmillsmms	-.0639417	.0699767	-0.91	0.361	-.2010936	.0732102	
c.timew1w3#c.invmillsmms	-.0187024	.0158585	-1.18	0.238	-.0497845	.0123797	
timew1w3	0 (omitted)						
zw1w3HCYTRAJ	.0327648	.4481385	0.07	0.942	-.8455728	.9111024	
c.timew1w3#c.zw1w3HCYTRAJ	.0250415	.1097951	0.23	0.820	-.1901529	.2402359	
_cons	71.79146	2.708157	26.51	0.000	66.48122	77.1017	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0002012	.0243912	1.3e-107	3.03e+99
sd(_cons)	7.556772	.4352527	6.750068	8.459884
sd(Residual)	10.01284	.2755983	9.486983	10.56783

692 .
 693 .
 694 .
 695 . 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 ///
 > if sample4bobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,408

Group variable: HNDID

Number of groups	=	789
Obs per group:		
min	=	1
avg	=	1.8
max	=	2

Average RVI = 0.0510
 Largest FMI = 0.3078

DF adjustment: Large sample

DF:	min	=	50.65
	avg	=	370,527.04
	max	=	9539915.79

Model F test: Equal FMI

F(41, 57187.3)	=	21.16
Prob > F	=	0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.99458	.2513863	-3.96	0.000	-1.487633	-.5015271
w1Agecent48	-.114438	.0256545	-4.46	0.000	-.1647211	-.0641548
c.timew1w3#c.w1Agecent48	-.0074499	.0055796	-1.34	0.182	-.0183859	.0034861
timew1w3	0 (omitted)					
Sex						
Men	-1.783025	.4597507	-3.88	0.000	-2.684122	-.8819285

	Sex#c.timew1w3						
	Men	-.2706295	.0990149	-2.73	0.006	-.4646963	-.0765627
	timew1w3	0	(omitted)				
	Race						
	AfrAm	0	(omitted)				
	Race#c.timew1w3						
	AfrAm	0	(omitted)				
	timew1w3	0	(omitted)				
	PovStat						
	Below	-.241111	.4451978	-0.54	0.588	-1.113691	.6314694
	PovStat#c.timew1w3						
	Below	-.0411538	.0936887	-0.44	0.660	-.2247807	.142473
	timew1w3	0	(omitted)				
	w1edubr						
2		-1.272614	1.048516	-1.21	0.226	-3.334352	.7891236
3		.15852	1.107528	0.14	0.886	-2.018096	2.335136
	w1edubr#c.timew1w3						
2		.1506066	.2048683	0.74	0.462	-.2511185	.5523317
3		.0314185	.218579	0.14	0.886	-.3971356	.4599726
	timew1w3	0	(omitted)				
	w1WRATtotalcent42	.1991436	.0296699	6.71	0.000	.1409824	.2573048
c.timew1w3#c.w1WRATtotalcent42		-.0066983	.0062868	-1.07	0.287	-.0190211	.0056246
	timew1w3	0	(omitted)				
1.w1smoke		-.3925502	.5336961	-0.74	0.465	-1.464168	.6790679
	w1smoke#c.timew1w3						
1		.0109808	.1052626	0.10	0.917	-.1956271	.2175886
	timew1w3	0	(omitted)				
1.w1currrdrugs		.4339204	.5830196	0.74	0.458	-.7217134	1.589554
	w1currrdrugs#c.timew1w3						
1		.172044	.1240386	1.39	0.167	-.0724864	.4165744
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0129993	.0212079	0.61	0.541	-.0289959	.0549944
c.timew1w3#c.w1hei2010_total_scorecent43		-.003858	.004791	-0.81	0.421	-.0132761	.0055602
	timew1w3	0	(omitted)				
w1BMIcon30		.0113502	.0310912	0.37	0.715	-.0495901	.0722906
c.timew1w3#c.w1BMIcon30		.0008176	.0064973	0.13	0.900	-.0119169	.0135521
	timew1w3	0	(omitted)				
	w1SRH						
2		.4098115	.5974632	0.69	0.493	-.7615059	1.581129
3		.3483485	.6310319	0.55	0.581	-.8887533	1.58545

w1SRH#c.timew1w3						
2	-.1397669	.1269239	-1.10	0.271	-.3885674	.1090336
3	-.2293844	.1340288	-1.71	0.087	-.4921205	.0333517
timew1w3	0 (omitted)					
w1CEScent15	-.0813838	.0206543	-3.94	0.000	-.1218656	-.040902
c.timew1w3#c.w1CEScent15	-.0091431	.0044625	-2.05	0.040	-.0178898	-.0003964
timew1w3	0 (omitted)					
w1dxHTN						
Yes	-.1305284	.4753782	-0.27	0.784	-1.062475	.8014176
w1dxHTN#c.timew1w3						
Yes	-.1018708	.1024905	-0.99	0.320	-.3027552	.0990135
timew1w3	0 (omitted)					
w1dxDiabetes						
preDiabetes	-.6518632	.5841506	-1.12	0.264	-1.796794	.4930681
Diabetes	-.1273941	.682808	-0.19	0.852	-1.466973	1.212185
w1dxDiabetes#c.timew1w3						
preDiabetes	.1254552	.1286467	0.98	0.330	-.1267367	.3776471
Diabetes	-.1431184	.1512289	-0.95	0.344	-.4398175	.1535806
timew1w3	0 (omitted)					
w1CVhighChol						
Yes	-.4715359	.592905	-0.80	0.428	-1.643771	.7006993
w1CVhighChol#c.timew1w3						
Yes	.1942533	.1224554	1.59	0.113	-.0457697	.4342763
timew1w3	0 (omitted)					
1.w1cvdbr	.2396189	.5662986	0.42	0.672	-.8709826	1.35022
w1cvdbr#c.timew1w3						
1	-.0376538	.1272089	-0.30	0.767	-.2872084	.2119008
timew1w3	0 (omitted)					
invmillsmms	.0215467	.0427708	0.50	0.614	-.0622827	.1053762
c.timew1w3#c.invmillsmms	-.0128483	.0086257	-1.49	0.136	-.0297544	.0040577
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	.4018205	.2086982	1.93	0.054	-.0072208	.8108618
c.timew1w3#c.zw1w3HCYTRAJ	-.0260922	.0438401	-0.60	0.552	-.1120172	.0598328
_cons	25.25839	1.266497	19.94	0.000	22.76558	27.75119

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3304294	.133158	.1499675	.7280483
sd(_cons)	4.043459	.1630518	3.736186	4.376003
sd(Residual)	3.577274	.171565	3.256293	3.929894

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699 . 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
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4cobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations =	5
Number of obs =	1,344

Group variable: HNDID

Number of groups =	779
Obs per group:	
min =	1
avg =	1.7
max =	2
Average RVI =	0.0483
Largest FMI =	0.2855

DF adjustment: Large sample

DF: min =	58.50
avg =	399,727.61
max =	8810422.03

Model F test: Equal FMI

F(41, 62507.7) =	12.11
Prob > F =	0.0000

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	- .4750669	.121346	-3.91	0.000	-.7129018	-.2372321
w1Agecent48	-.0747668	.0125537	-5.96	0.000	-.099372	-.0501616
c.timew1w3#c.w1Agecent48	-.0034493	.0027928	-1.24	0.217	-.0089233	.0020246
timew1w3	0 (omitted)					
Sex						
Men	-.677853	.2253478	-3.01	0.003	-1.119536	-.23617
Sex#c.timew1w3						
Men	-.0560274	.0489914	-1.14	0.253	-.1520493	.0399945
timew1w3	0 (omitted)					
Race						
AfrAm	0 (omitted)					
Race#c.timew1w3						
AfrAm	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.0725963	.2178636	-0.33	0.739	-.4996067	.3544141

PovStat#c.timew1w3 Below	- .0216416	.0465297	-0.47	0.642	-.1128386	.0695554
timew1w3	0 (omitted)					
w1edubr 2 3	-.8950725	.4963228	-1.80	0.071	-1.868041	.0778964
	-.6405717	.5233308	-1.22	0.221	-1.66636	.3852167
w1edubr#c.timew1w3 2 3	.0556057	.0995217	0.56	0.576	-.1394557	.2506671
	.1141719	.1061188	1.08	0.282	-.0938181	.322162
timew1w3 w1WRATtotalcent42	0 (omitted)					
	.0881001	.01448	6.08	0.000	.059719	.1164811
c.timew1w3#c.w1WRATtotalcent42	-.0062212	.0031381	-1.98	0.047	-.0123717	-.0000706
timew1w3 1.w1smoke	0 (omitted)					
	-.1021244	.254143	-0.40	0.689	-.6084876	.4042388
w1smoke#c.timew1w3 1	.0108419	.0545835	0.20	0.843	-.0967957	.1184796
timew1w3 1.w1currdrugs	0 (omitted)					
	-.09634	.2703694	-0.36	0.722	-.6273447	.4346647
w1currdrugs#c.timew1w3 1	.0312099	.0603029	0.52	0.605	-.0873201	.14974
timew1w3 w1hei2010_total_scorecent43	0 (omitted)					
	.0017814	.010983	0.16	0.872	-.0201994	.0237623
c.timew1w3#c.w1hei2010_total_scorecent43	-.0003886	.002585	-0.15	0.881	-.0055556	.0047784
timew1w3 w1BMIconcent30	0 (omitted)					
	.0344832	.0152939	2.25	0.024	.0045041	.0644624
c.timew1w3#c.w1BMIconcent30	-.0012226	.0032245	-0.38	0.705	-.0075425	.0050974
timew1w3	0 (omitted)					
w1SRH 2 3	-.0074601	.2900796	-0.03	0.979	-.5760418	.5611216
	-.1404542	.3080343	-0.46	0.648	-.7442555	.4633471
w1SRH#c.timew1w3 2 3	.0194706	.0627724	0.31	0.756	-.1035617	.1425029
	.0099386	.066142	0.15	0.881	-.1196977	.139575
timew1w3 w1CEScent15	0 (omitted)					
	-.0382907	.010202	-3.75	0.000	-.0582878	-.0182936
c.timew1w3#c.w1CEScent15	-.0008074	.0022145	-0.36	0.715	-.0051479	.0035331
timew1w3	0 (omitted)					
w1dxHTN Yes	-.2329684	.2311185	-1.01	0.313	-.6860254	.2200885
w1dxHTN#c.timew1w3 Yes	.0383865	.0507232	0.76	0.449	-.061031	.1378041

	timew1w3	0 (omitted)					
w1dxDiabetes							
preDiabetes		-.2877125	.2863273	-1.00	0.315	-.849124	.2736989
Diabetes		-.4771723	.333395	-1.43	0.153	-1.131121	.1767761
w1dxDiabetes#c.timew1w3							
preDiabetes		.0652735	.0627397	1.04	0.298	-.0576969	.188244
Diabetes		.0325507	.0752222	0.43	0.665	-.1150237	.1801251
timew1w3		0 (omitted)					
w1CVhighChol							
Yes		-.0247413	.279098	-0.09	0.929	-.5732853	.5238027
w1CVhighChol#c.timew1w3							
Yes		.0206588	.0618465	0.33	0.738	-.1006189	.1419365
timew1w3		0 (omitted)					
1.w1cvdbr		.2845263	.2811106	1.01	0.312	-.266845	.8358975
w1cvdbr#c.timew1w3							
1		-.0181641	.0652451	-0.28	0.781	-.1462803	.1099521
timew1w3		0 (omitted)					
invmillsmms		-.0012764	.0228672	-0.06	0.955	-.0460954	.0435425
c.timew1w3#c.invmillsmms							
		-.0029894	.004425	-0.68	0.499	-.0116622	.0056834
timew1w3		0 (omitted)					
zw1w3HCYTRAJ		.2446805	.1032415	2.37	0.018	.0423305	.4470305
c.timew1w3#c.zw1w3HCYTRAJ							
		-.0329222	.0218755	-1.50	0.132	-.0757975	.009953
_cons		8.136178	.5955136	13.66	0.000	6.9687	9.303655

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0588528	.1792999	.0001501	23.06955	
sd(_cons)	1.85947	.0809398	1.707407	2.025076	
sd(Residual)	1.797269	.0790894	1.648753	1.959163	

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703 . 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 ///
 > if sample4dobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Group variable: **HNDID**

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
 Number of obs = 1,539

Number of groups = 802
 Obs per group:

min = 1
 avg = 1.9
 max = 2

Average RVI = 0.0382
 Largest FMI = 0.2162
 DF: min = 99.41
 avg = 563,355.80
 max = 8194604.18

F(41, 96271.4) = 12.07
 Prob > F = 0.0000

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.8624703	.2035946	4.24	0.000	.4634301	1.26151
w1Agecent48	.1066464	.0215694	4.94	0.000	.0643706	.1489222
c.timew1w3#c.w1Agecent48	.012534	.0044184	2.84	0.005	.0038741	.0211938
timew1w3	0 (omitted)					
Sex						
Men	-1.288971	.3844693	-3.35	0.001	-2.042539	-.5354033
Sex#c.timew1w3						
Men	.0595755	.0782849	0.76	0.447	-.0938636	.2130145
timew1w3	0 (omitted)					
Race						
AfrAm	0 (omitted)					
Race#c.timew1w3						
AfrAm	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.0974474	.3748109	-0.26	0.795	-.8320647	.6371698
PovStat#c.timew1w3						
Below	.0773904	.075589	1.02	0.306	-.0707613	.2255421
timew1w3	0 (omitted)					
w1edubr						
2	-.5671637	.8506407	-0.67	0.505	-2.234401	1.100074
3	-1.427155	.8981217	-1.59	0.112	-3.187445	.3331354
w1edubr#c.timew1w3						
2	-.3224434	.1685404	-1.91	0.056	-.6527791	.0078923
3	-.2725726	.1789074	-1.52	0.128	-.6232314	.0780862

	timew1w3	0	(omitted)				
w1WRATtotalcent42		-.1193188	.0255495	-4.67	0.000	-.1694248	-.0692129
c.timew1w3#c.w1WRATtotalcent42		-.0065162	.0051098	-1.28	0.202	-.0165314	.0034989
	timew1w3	0	(omitted)				
1.w1smoke		.171476	.4016316	0.43	0.670	-.6171717	.9601236
w1smoke#c.timew1w3							
1		-.0762092	.0826307	-0.92	0.356	-.2381904	.085772
	timew1w3	0	(omitted)				
1.w1currdrugs		-.4422805	.5042401	-0.88	0.383	-1.442751	.5581903
w1currdrugs#c.timew1w3							
1		.1682847	.1009337	1.67	0.097	-.0304534	.3670227
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0234333	.0171241	1.37	0.173	-.01031	.0571766
c.timew1w3#c.w1hei2010_total_scorecent43		-.0080555	.0038267	-2.11	0.036	-.0155772	-.0005338
	timew1w3	0	(omitted)				
w1BMIcontent30		-.0174766	.0264562	-0.66	0.509	-.0693322	.034379
c.timew1w3#c.w1BMIcontent30		-.0041004	.0053597	-0.77	0.444	-.0146051	.0064043
	timew1w3	0	(omitted)				
w1SRH							
2		-.2992445	.4974029	-0.60	0.547	-1.274139	.6756497
3		-.2089875	.5285233	-0.40	0.693	-1.244883	.8269079
w1SRH#c.timew1w3							
2		-.1852493	.1011678	-1.83	0.067	-.383535	.0130364
3		-.1340603	.1074639	-1.25	0.212	-.344688	.0765674
	timew1w3	0	(omitted)				
w1CEScent15		.0536352	.0182383	2.94	0.003	.017872	.0893985
c.timew1w3#c.w1CEScent15		.0010035	.0037052	0.27	0.787	-.0062595	.0082665
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.5519073	.4215066	1.31	0.192	-.27856	1.382375
w1dxHTN#c.timew1w3							
Yes		-.0143501	.0833844	-0.17	0.863	-.1777985	.1490983
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.4237456	.504654	0.84	0.401	-.5670215	1.414513
Diabetes		.4659509	.5926719	0.79	0.433	-.7053259	1.637228
w1dxDiabetes#c.timew1w3							
preDiabetes		-.0950844	.1019661	-0.93	0.351	-.294941	.1047721
Diabetes		.0476747	.1162539	0.41	0.682	-.1802012	.2755505
	timew1w3	0	(omitted)				

w1CVhighChol Yes		- .1094143	.4832983	-0.23	0.821	-1.060818	.8419897
w1CVhighChol#c.timew1w3 Yes		.0889742	.1001631	0.89	0.375	-.107607	.2855554
timew1w3 1.w1cvdbr		0 (omitted) .254182	.5077306	0.50	0.617	-.7466633	1.255027
w1cvdbr#c.timew1w3 1		-.1980772	.1012627	-1.96	0.051	-.3965941	.0004397
timew1w3 invmillsmms		0 (omitted) .0164589	.0286693	0.57	0.566	-.039732	.0726498
c.timew1w3#c.invmillsmms		-.001042	.0057128	-0.18	0.855	-.0122392	.0101552
timew1w3 zw1w3HCYTRAJ		0 (omitted) -.1062582	.1706889	-0.62	0.534	-.4408023	.228286
c.timew1w3#c.zw1w3HCYTRAJ		.0583637	.034248	1.70	0.088	-.008761	.1254885
_cons		8.101892	1.018078	7.96	0.000	6.106461	10.09732

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.7150233	.0858526	.5650754 .9047613
sd(_cons)	4.309721	.2040289	3.927792 4.728788
corr(timew1w3,_cons)	-.5725304	.0361838	-.6391767 -.497349
sd(Residual)	2.09705	.3177751	1.558137 2.822358

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705 .
706 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4eobs==1 & Race==2 || HNDID: timew1w3, cov(un)

```

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 1,404
Group variable: HNDID	Number of groups = 791
	Obs per group:
	min = 1
	avg = 1.8
	max = 2
DF adjustment: Large sample	Average RVI = .
	Largest FMI = .
	DF: min = 0.00
	avg = .
	max = .
Model F test: Equal FMI	F(41, 64127.4) = 4.53
	Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0467348	.0942126	-0.50	0.620	-.231388 .1379184
w1Agecent48	-.0267245	.0097927	-2.73	0.006	-.0459262 -.0075228
c.timew1w3#c.w1Agecent48	-.0001536	.0020951	-0.07	0.942	-.00426 .0039527
timew1w3	0	(omitted)			
Sex					
Men	-.1929603	.1699954	-1.14	0.256	-.5261456 .1402251
Sex#c.timew1w3					
Men	-.0269549	.0364011	-0.74	0.459	-.0983004 .0443907
timew1w3	0	(omitted)			
Race					
AfrAm	0	(omitted)			
Race#c.timew1w3					
AfrAm	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-.0787944	.1657281	-0.48	0.634	-.4036201 .2460312
PovStat#c.timew1w3					
Below	-.0657978	.0347776	-1.89	0.058	-.133961 .0023654
timew1w3	0	(omitted)			
w1edubr					
2	.1634405	.3837348	0.43	0.670	-.588777 .915658
3	.3063519	.4041682	0.76	0.448	-.4859394 1.098643
w1edubr#c.timew1w3					
2	.0680336	.0792508	0.86	0.391	-.0872973 .2233645
3	.0639643	.0829771	0.77	0.441	-.098668 .2265965
timew1w3	0	(omitted)			
w1WRATtotalcent42					
timew1w3	0	(omitted)			
w1WRATtotalcent42	.0715696	.0110112	6.50	0.000	.0499873 .0931519
c.timew1w3#c.w1WRATtotalcent42	.0024257	.0023715	1.02	0.306	-.0022223 .0070738
timew1w3	0	(omitted)			
1.w1smoke	-.0290969	.1879463	-0.15	0.877	-.4010272 .3428333
w1smoke#c.timew1w3					
1	-.037889	.0383168	-0.99	0.323	-.1129974 .0372194
timew1w3	0	(omitted)			
1.w1currdrugs	.419695	.2072457	2.03	0.044	.0122189 .827171
w1currdrugs#c.timew1w3					
1	-.0359016	.0438007	-0.82	0.412	-.1217652 .0499621
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	-.0041056	.0077198	-0.53	0.595	-.0193116 .0111004
c.timew1w3#c.w1hei2010_total_scorecent43	-.0006609	.001732	-0.38	0.703	-.0040583 .0027366

	timew1w3	0	(omitted)				
w1BMIcon30		- .0183809	.0119332	-1.54	0.124	-.0417767	.0050149
c.timew1w3#c.w1BMIcon30		- .0020634	.002476	-0.83	0.405	-.0069165	.0027897
	timew1w3	0	(omitted)				
w1SRH							
2		.3680974	.2201362	1.67	0.095	-.0633743	.799569
3		.1595584	.2333986	0.68	0.494	-.2979203	.6170372
w1SRH#c.timew1w3							
2		- .0273321	.0470673	-0.58	0.561	-.1195835	.0649193
3		.0443922	.0495097	0.90	0.370	-.0526475	.1414319
	timew1w3	0	(omitted)				
w1CEScent15		- .0166225	.0077979	-2.13	0.033	-.0319087	-.0013362
c.timew1w3#c.w1CEScent15		.0009683	.0016544	0.59	0.558	-.0022743	.004211
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		- .0197275	.1861986	-0.11	0.916	-.3856581	.3462031
w1dxHTN#c.timew1w3							
Yes		- .0477527	.0389093	-1.23	0.220	-.1240213	.0285158
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.0854827	.2259498	-0.38	0.705	-.5293203	.358355
Diabetes		-.2137099	.2543177	-0.84	0.401	-.7131107	.285691
w1dxDiabetes#c.timew1w3							
preDiabetes		.0789068	.0473375	1.67	0.096	-.0138801	.1716937
Diabetes		-.0370301	.0534127	-0.69	0.488	-.1417254	.0676652
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		.2663668	.2170827	1.23	0.221	-.1617407	.6944743
w1CVhighChol#c.timew1w3							
Yes		-.0081678	.0467153	-0.17	0.861	-.0998929	.0835573
	timew1w3	0	(omitted)				
1.w1cvdbr		.1140005	.2402318	0.47	0.637	-.3662145	.5942156
w1cvdbr#c.timew1w3							
1		.0723621	.0515549	1.40	0.164	-.0300527	.1747769
	timew1w3	0	(omitted)				
invmillsmms		-.0115477	.0153655	-0.75	0.452	-.0416637	.0185683
c.timew1w3#c.invmillsmms		.0044293	.0030849	1.44	0.151	-.0016171	.0104756
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		.0409583	.0777215	0.53	0.598	-.1113732	.1932898
c.timew1w3#c.zw1w3HCYTRAJ		-.0179751	.0165886	-1.08	0.279	-.0504883	.0145382

	<u>_cons</u>	5.969936	.453139	13.17	0.000	5.081767	6.858105
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0090478	.	.
sd(_cons)	1.450079	.	.
corr(timew1w3,_cons)	.999997	.	.
sd(Residual)	1.403685	.	.

707 .

708 . 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.w1BMIcon > imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms //> c.timew1w3##c.zw1w3HCYTRAJ //> if sample4fobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,556

Group variable: **HNDID**

Number of groups = 804

Obs per group:

min = 1
avg = 1.9
max = 2

Average RVI = 0.0495

Largest FMI = 0.3593

DF adjustment: Large sample

DF: min = 37.61

avg = 649,278.28

max = 1.73e+07

Model F test: Equal FMI

F(41,56685.5) = 3.15

Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	- .2734374	.1816542	-1.51	0.132	-.6294739 .082599
w1Agecent48	-.0638189	.021349	-2.99	0.003	-.1056667 -.0219711
c.timew1w3#c.w1Agecent48	-.0048278	.0040176	-1.20	0.230	-.0127024 .0030468
timew1w3	0	(omitted)			
Sex					
Men	1.586062	.3810915	4.16	0.000	.8390634 2.33306
Sex#c.timew1w3					
Men	.0336886	.0703112	0.48	0.632	-.1041202 .1714973
timew1w3	0	(omitted)			
Race					
AfrAm	0	(omitted)			
Race#c.timew1w3					
AfrAm	0	(omitted)			
timew1w3	0	(omitted)			

PovStat Below	- .2520417	.3697991	-0.68	0.496	-.9768505	.4727672
PovStat#c.timew1w3 Below	.0489972	.0677284	0.72	0.469	-.0837483	.1817427
timew1w3	0 (omitted)					
w1edubr 2	-.8705084	.8483271	-1.03	0.305	-2.533504	.7924872
3	-.3160409	.8879462	-0.36	0.722	-2.056402	1.424321
w1edubr#c.timew1w3 2	.2747092	.1511606	1.82	0.069	-.0215614	.5709799
3	.2601667	.1600562	1.63	0.104	-.0535381	.5738716
timew1w3 w1WRATtotalcent42	0 (omitted)					
c.timew1w3#c.w1WRATtotalcent42	.0003526	.0045526	0.08	0.938	-.0085704	.0092756
timew1w3 1.w1smoke	0 (omitted)					
w1smoke#c.timew1w3 1	-.2394569	.4512914	-0.53	0.599	-1.153363	.6744491
timew1w3 1.w1currdrugs	0 (omitted)					
w1currdrugs#c.timew1w3 1	.2849967	.5086559	0.56	0.578	-.7356029	1.305596
timew1w3 w1hei2010_total_scorecent43	0 (omitted)					
c.timew1w3#c.w1hei2010_total_scorecent43	-.0027957	.0033667	-0.83	0.406	-.009399	.0038077
timew1w3 w1BMIcon30	0 (omitted)					
c.timew1w3#c.w1BMIcon30	.0018999	.0048202	0.39	0.693	-.0075488	.0113487
timew1w3	0 (omitted)					
w1SRH 2	.1634556	.492368	0.33	0.740	-.8016059	1.128517
3	.2025467	.5205258	0.39	0.697	-.8177306	1.222824
w1SRH#c.timew1w3 2	.0718701	.0914004	0.79	0.432	-.1072733	.2510136
3	-.0436308	.0962015	-0.45	0.650	-.2321838	.1449223
timew1w3 w1CEScent15	0 (omitted)					
c.timew1w3#c.w1CEScent15	-.0303968	.0178178	-1.71	0.088	-.0653593	.0045657
timew1w3	0 (omitted)					
w1dxHTN Yes	.3930592	.4070402	0.97	0.335	-.4074415	1.19356

w1dxHTN#c.timew1w3 Yes		- .054346	.0759432	-0.72	0.474	-.2032734	.0945813
	timew1w3		0 (omitted)				
w1dxDiabetes preDiabetes Diabetes		-.3158719	.4933993	-0.64	0.522	-1.283968	.6522243
		-.0144008	.5557732	-0.03	0.979	-1.107147	1.078346
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0815836	.094784	0.86	0.390	-.104391	.2675582
		.023622	.1066123	0.22	0.825	-.185665	.2329089
	timew1w3		0 (omitted)				
w1CVhighChol Yes		-.013526	.4571098	-0.03	0.976	-.9117486	.8846965
w1CVhighChol#c.timew1w3 Yes		.0623289	.0895951	0.70	0.487	-.11343	.2380879
	timew1w3 1.w1cvdbr	0 (omitted)	-.0801614	.4571862	-0.18	0.861	-.9764961
w1cvdbr#c.timew1w3 1		.0743924	.0931109	0.80	0.425	-.1085033	.2572882
	timew1w3 invmillsmms	0 (omitted)	-.027246	.0397805	-0.68	0.493	-.1052144
c.timew1w3#c.invmillsmms		.0056829	.007681	0.74	0.459	-.0093715	.0207374
	timew1w3 zw1w3HCYTRAJ	0 (omitted)	-.0197996	.1688373	-0.12	0.907	-.350715
c.timew1w3#c.zw1w3HCYTRAJ		-.0490594	.0307283	-1.60	0.110	-.109286	.0111673
	_cons	18.0764	1.002712	18.03	0.000	16.11109	20.0417

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.5160993	.1421354	.3008219	.885436	
sd(_cons)	4.167357	.2382315	3.725639	4.661446	
corr(timew1w3,_cons)	-.3410921	.080331	-.4880548	-.1753218	
sd(Residual)	2.301869	.3511553	1.706977	3.104083	

```

709 .
710 . 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.w1BMIcent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Race==2 || HNDID: timew1w3, cov(un)
convergence not achieved
model did not converge on m=4
r(498);

end of do-file

r(498);

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

712 . 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.w1BMIcent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4gobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,529

Group variable: HNDID
Number of groups = 803
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI =
    Largest FMI =
DF: min = 0.00
    avg =
    max =
Model F test: Equal FMI
F( 41,21946.5) = 4.79
Prob > F = 0.0000

```

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0486911	.0697249	0.70	0.485	-.0879682	.1853505
w1Agecent48	-.0025166	.0085558	-0.29	0.769	-.0192923	.0142591
c.timew1w3##c.w1Agecent48	-.0053839	.0015985	-3.37	0.001	-.0085175	-.0022503
timew1w3	0 (omitted)					
Sex						
Men	.1001645	.1494483	0.67	0.503	-.1927489	.393078
Sex##c.timew1w3						
Men	-.0544083	.0279307	-1.95	0.051	-.1091583	.0003417
timew1w3	0 (omitted)					
Race						
AfrAm	0 (omitted)					
Race##c.timew1w3						
AfrAm	0 (omitted)					
timew1w3	0 (omitted)					

PovStat Below	- .1522604	.145627	-1.05	0.296	- .43769	.1331692
PovStat#c.timew1w3 Below	- .0416604	.0265074	-1.57	0.116	- .0936149	.0102941
timew1w3	0	(omitted)				
w1edubr 2	- .0671881	.3345629	-0.20	0.841	- .7230775	.5887014
3	- .1126282	.3560794	-0.32	0.752	- .8109651	.5857087
w1edubr#c.timew1w3 2	- .0322436	.0570983	-0.56	0.572	- .1441563	.0796691
3	- .02615	.0606471	-0.43	0.666	- .1450174	.0927173
timew1w3 w1WRATtotalcent42	0	(omitted)				
c.timew1w3#c.w1WRATtotalcent42	.0902322	.0099268	9.09	0.000	.0707505	.1097138
timew1w3 1.w1smoke	0	(omitted)				
w1smoke#c.timew1w3 1	.0397834	.168228	0.24	0.814	- .2962592	.3758261
timew1w3 1.w1currdrugs	0	(omitted)				
w1currdrugs#c.timew1w3 1	.5158899	.1773171	2.91	0.004	.1674729	.864307
timew1w3 w1hei2010_total_scorecent43	0	(omitted)				
c.timew1w3#c.w1hei2010_total_scorecent43	- .0005579	.0079593	-0.07	0.945	- .0171091	.0159934
timew1w3 w1BMIcon30	0	(omitted)				
c.timew1w3#c.w1BMIcon30	- .0083594	.0103026	-0.81	0.417	- .0285541	.0118353
timew1w3 w1SRH	0	(omitted)				
2	.0447767	.1927821	0.23	0.816	- .3330694	.4226227
3	.3292962	.2042608	1.61	0.107	- .0710653	.7296577
w1SRH#c.timew1w3 2	.0267195	.0359682	0.74	0.458	- .0437774	.0972165
3	.0135581	.0379048	0.36	0.721	- .0607355	.0878518
timew1w3 w1CEScent15	0	(omitted)				
c.timew1w3#c.w1CEScent15	- .0060717	.0068619	-0.88	0.376	- .0195215	.007378
timew1w3 w1dxHTN	0	(omitted)				
Yes	.0126665	.1544938	0.08	0.935	- .290142	.3154751

w1dxHTN#c.timew1w3 Yes		- .0112132	.0295987	-0.38	0.705	-.0692363	.0468099
	timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes		.1000932	.1943578	0.51	0.607	-.2811679	.4813543
		.0584444	.218922	0.27	0.790	-.371287	.4881758
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		- .016644	.0358498	-0.46	0.642	-.0869084	.0536204
		.005303	.0415401	0.13	0.898	-.076131	.0867369
	timew1w3	0	(omitted)				
w1CVhighChol Yes		-.2970848	.201301	-1.48	0.146	-.7008525	.1066829
w1CVhighChol#c.timew1w3 Yes		.0044366	.0354965	0.12	0.901	-.0652501	.0741234
	timew1w3 1.w1cvdbr	0	(omitted)				
		-.1087215	.1882267	-0.58	0.564	-.4787104	.2612674
w1cvdbr#c.timew1w3 1		.0086866	.0363137	0.24	0.811	-.0625578	.0799311
	timew1w3 invmillsmms	0	(omitted)				
		-.0097893	.0132927	-0.74	0.461	-.0358424	.0162639
c.timew1w3#c.invmillsmms		.0003339	.0024945	0.13	0.894	-.0045557	.0052235
	timew1w3 zw1w3HCYTRAJ	0	(omitted)				
		.0360847	.0669082	0.54	0.590	-.0950554	.1672248
c.timew1w3#c.zw1w3HCYTRAJ		-.0161571	.0120873	-1.34	0.181	-.0398492	.007535
	_cons	6.968702	.3992559	17.45	0.000	6.185976	7.751428

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	6.53e-06	.	.	.
sd(_cons)	1.498323	.0502591	1.402983	1.600142
sd(Residual)	1.130428	.0296748	1.073736	1.190113

713 .

```
714 . 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.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4hobs==1 & Race==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates Imputations = 5
 Mixed-effects ML regression Number of obs = 1,520

Group variable: HNDID Number of groups = 803
 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(41, 32324.7) = 7.06
 Prob > F = 0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0857948	.0735917	-1.17	0.244	-.2300352 .0584457
w1Agecent48	-.0182009	.0077341	-2.35	0.019	-.0333608 -.003041
c.timew1w3##c.w1Agecent48	-.0011934	.0016721	-0.71	0.475	-.0044707 .002084
timew1w3	0 (omitted)				
Sex					
Men	-.0385365	.1372471	-0.28	0.779	-.3075505 .2304775
Sex##c.timew1w3					
Men	-.0590809	.0292846	-2.02	0.044	-.1164776 -.0016842
timew1w3	0 (omitted)				
Race					
AfrAm	0 (omitted)				
Race##c.timew1w3					
AfrAm	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.1930045	.1322429	-1.46	0.144	-.4522065 .0661974
PovStat##c.timew1w3					
Below	.0071243	.0279375	0.26	0.799	-.0476326 .0618813
timew1w3	0 (omitted)				
w1edubr					
2	-.145078	.3017256	-0.48	0.631	-.7365143 .4463584
3	-.0467482	.3183984	-0.15	0.883	-.6708514 .577355
w1edubr##c.timew1w3					
2	.072161	.0601244	1.20	0.230	-.0456819 .1900039

	3	.077025	.0639541	1.20	0.228	-.0483235	.2023734
	timew1w3	0	(omitted)				
w1WRATTtotalcent42		.1063402	.0088683	11.99	0.000	.0889566	.1237238
c.timew1w3#c.w1WRATTtotalcent42		-.0022363	.0018949	-1.18	0.238	-.0059505	.0014779
	timew1w3	0	(omitted)				
1.w1smoke		-.1215124	.1404771	-0.86	0.387	-.3971721	.1541473
	w1smoke#c.timew1w3						
1		.0152033	.0318713	0.48	0.634	-.0474072	.0778137
	timew1w3	0	(omitted)				
1.w1currdrugs		.1995804	.1887523	1.06	0.296	-.1805052	.579666
	w1currdrugs#c.timew1w3						
1		.0366705	.0385693	0.95	0.343	-.039568	.1129089
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		-.0069471	.0059776	-1.16	0.246	-.0186947	.0048005
c.timew1w3#c.w1hei2010_total_scorecent43		.0018782	.0015319	1.23	0.223	-.0011668	.0049233
	timew1w3	0	(omitted)				
w1BMIconcept30		.002053	.0094137	0.22	0.827	-.0163989	.0205048
c.timew1w3#c.w1BMIconcept30		-.0039922	.0019854	-2.01	0.044	-.0078837	-.0001008
	timew1w3	0	(omitted)				
w1SRH							
2		.0050302	.1774696	0.03	0.977	-.3428659	.3529263
3		.1357966	.1917767	0.71	0.479	-.2406032	.5121964
	w1SRH#c.timew1w3						
2		-.0037706	.0377463	-0.10	0.920	-.0777523	.0702111
3		.0031831	.0398495	0.08	0.936	-.0749209	.0812872
	timew1w3	0	(omitted)				
w1CEScent15							
timew1w3	0	(omitted)					
w1CEScent15		-.0109446	.0062634	-1.75	0.081	-.0232221	.0013328
c.timew1w3#c.w1CEScent15		-.0001052	.0013478	-0.08	0.938	-.0027469	.0025365
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.0605617	.1432107	-0.42	0.672	-.3413032	.2201798
	w1dxHTN#c.timew1w3						
Yes		-.003084	.0310785	-0.10	0.921	-.064	.057832
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.3999949	.1758948	2.27	0.023	.0551578	.7448321
Diabetes		-.1369379	.2056781	-0.67	0.506	-.5415058	.2676299
	w1dxDiabetes#c.timew1w3						
preDiabetes		-.0542308	.0380657	-1.42	0.154	-.1288417	.0203802
Diabetes		-.0090934	.0442502	-0.21	0.837	-.0958758	.0776889
	timew1w3	0	(omitted)				

w1CVhighChol Yes		- .0646469	.1805177	-0.36	0.721	-.4229193	.2936254
w1CVhighChol#c.timew1w3 Yes		.0402543	.0381939	1.05	0.292	-.0348102	.1153187
timew1w3 1.w1cvdbr		0 .169871	(omitted) .2251139	0.75	0.460	-.3009904	.6407325
w1cvdbr#c.timew1w3 1		.0353505	.0421448	0.84	0.404	-.0485822	.1192831
timew1w3 invmillsmms		0 .0121324	(omitted) .0125333	0.97	0.333	-.0124326	.0366974
c.timew1w3#c.invmillsmms		-.0059401	.0025328	-2.35	0.019	-.0109043	-.0009758
timew1w3 zw1w3HCYTRAJ		0 -.0333217	(omitted) .0607675	-0.55	0.583	-.152424	.0857805
c.timew1w3#c.zw1w3HCYTRAJ		.012074	.012739	0.95	0.343	-.012894	.0370421
_cons		5.393892	.3674672	14.68	0.000	4.673031	6.114752

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0095843	.	.
sd(_cons)	1.205658	.	.
corr(timew1w3,_cons)	1	.	.
sd(Residual)	1.19315	.	.

715 .
 716 . 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.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4iobs==1 & Race==2 || HNDID: timew1w3, cov(un)

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	1,545

Group variable: HNDID

Number of groups	=	803
Obs per group:		
min	=	1
avg	=	1.9
max	=	2

Average RVI = **0.0610**
 Largest FMI = **0.2898**

DF adjustment: Large sample

DF:	min	=	56.87
	avg	=	616,461.43
	max	=	1.25e+07

Model F test: Equal FMI

F(41,38768.8)	=	2.47
Prob > F	=	0.0000

	clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0040721	.0632834	-0.06	0.949	-.1281381 .1199939
w1Agecent48		-.0032595	.0054687	-0.60	0.551	-.0139798 .0074609
c.timew1w3#c.w1Agecent48		-.0008379	.0013989	-0.60	0.549	-.0035814 .0019056
	timew1w3	0	(omitted)			
Sex						
Men		.1790861	.0963559	1.86	0.063	-.0097681 .3679402
Sex#c.timew1w3						
Men		.0105816	.024234	0.44	0.662	-.0369178 .0580811
	timew1w3	0	(omitted)			
Race						
AfrAm		0	(omitted)			
Race#c.timew1w3						
AfrAm		0	(omitted)			
	timew1w3	0	(omitted)			
PovStat						
Below		.0689291	.0937966	0.73	0.462	-.1149092 .2527673
PovStat#c.timew1w3						
Below		.0055228	.0231994	0.24	0.812	-.0399475 .0509931
	timew1w3	0	(omitted)			
w1edubr						
2		.220114	.2200938	1.00	0.317	-.2114918 .6517198
3		.3556917	.23176	1.53	0.125	-.0987452 .8101286
w1edubr#c.timew1w3						
2		.0221491	.0525714	0.42	0.674	-.080917 .1252151
3		.0482098	.0559116	0.86	0.389	-.0614232 .1578429
	timew1w3	0	(omitted)			
w1WRATtotalcent42		.0290345	.006277	4.63	0.000	.0167312 .0413378
c.timew1w3#c.w1WRATtotalcent42		-.0011137	.0015696	-0.71	0.478	-.0041903 .001963
	timew1w3	0	(omitted)			
1.w1smoke		-.0149428	.1105307	-0.14	0.893	-.2344114 .2045259
w1smoke#c.timew1w3						
1		.013112	.0258248	0.51	0.612	-.0375585 .0637825
	timew1w3	0	(omitted)			
1.w1currdrugs		.287608	.1231108	2.34	0.020	.0449732 .5302429
w1currdrugs#c.timew1w3						
1		-.0552935	.0297891	-1.86	0.064	-.1137427 .0031557
	timew1w3	0	(omitted)			
w1hei2010_total_scorecent43		.000484	.0048484	0.10	0.921	-.0091971 .0101651
c.timew1w3#c.w1hei2010_total_scorecent43		.0007345	.0012159	0.60	0.547	-.001668 .0031371

	timew1w3	0	(omitted)				
w1BMIcon30		- .0058537	.0067721	-0.86	0.387	- .0191325	.0074251
c.timew1w3#c.w1BMIcon30		.0014054	.0016477	0.85	0.394	- .0018242	.0046349
	timew1w3	0	(omitted)				
w1SRH							
2		.1689635	.1253374	1.35	0.178	- .0766953	.4146222
3		- .0642499	.1326556	-0.48	0.628	- .3242545	.1957547
w1SRH#c.timew1w3							
2		- .0132308	.0312858	-0.42	0.672	- .0745504	.0480888
3		- .000861	.0330235	-0.03	0.979	- .065588	.0638661
	timew1w3	0	(omitted)				
w1CEScent15		- .003293	.0044719	-0.74	0.462	- .0120586	.0054726
c.timew1w3#c.w1CEScent15		.0005727	.0011142	0.51	0.607	- .0016112	.0027566
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0984918	.1086157	0.91	0.366	- .1156204	.3126039
w1dxHTN#c.timew1w3							
Yes		- .0511986	.0259991	-1.97	0.049	- .1021842	- .000213
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.1766136	.1276495	-1.38	0.167	- .4271284	.0739013
Diabetes		.0590927	.1594828	0.37	0.712	- .2597264	.3779118
w1dxDiabetes#c.timew1w3							
preDiabetes		.0324162	.0313061	1.04	0.300	- .0289526	.0937851
Diabetes		- .0721804	.0367013	-1.97	0.050	- .1442446	- .0001161
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		- .0282248	.1254965	-0.22	0.822	- .2759606	.219511
w1CVhighChol#c.timew1w3							
Yes		.0160984	.0318354	0.51	0.614	- .04662	.0788167
	timew1w3	0	(omitted)				
1.w1cvdbr		.0494795	.1258544	0.39	0.694	- .1977953	.2967542
w1cvdbr#c.timew1w3							
1		- .0147826	.035565	-0.42	0.679	- .0860039	.0564386
	timew1w3	0	(omitted)				
invmillsmms		.0061694	.0092706	0.67	0.506	- .0120006	.0243394
c.timew1w3#c.invmillsmms		- .0014448	.0020346	-0.71	0.478	- .0054325	.0025429
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		- .0304571	.0429633	-0.71	0.478	- .1146638	.0537496
c.timew1w3#c.zw1w3HCYTRAJ		- .0098346	.0104786	-0.94	0.348	- .0303723	.010703

	<u>_cons</u>	8.176979	.2606338	31.37	0.000	7.666056	8.687901
--	--------------	----------	----------	-------	-------	----------	----------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.1274091	.0425153	.0662452	.2450453
sd(_cons)	.8039473	.0864148	.6512259	.9924841
corr(timew1w3,_cons)	-.465087	.1034789	-.6425936	-.2402004
sd(Residual)	.900878	.0700687	.7734973	1.049236

717 .

718 . 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.w1BMIcon
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
 > c.timew1w3##c.zw1w3HCYTRAJ ///
 > if sample4jobs==1 & Race==2 || HNDID: timew1w3

Multiple-imputation estimates
 Mixed-effects ML regression

Imputations = 5
 Number of obs = 1,499

Group variable: HNDID

Number of groups = 793

Obs per group:

min = 1
 avg = 1.9
 max = 2

Average RVI = 0.0407

Largest FMI = 0.2893

DF adjustment: Large sample

DF: min = 57.05

avg = 5.20e+08

max = 2.34e+10

Model F test: Equal FMI

F(41, 86031.8) = 7.01

Prob > F = 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0049552	.0176737	0.28	0.779	-.0296912	.0396015
w1Agecent48	.0141103	.0017297	8.16	0.000	.0107197	.0175009
c.timew1w3#c.w1Agecent48	.0003577	.0003879	0.92	0.356	-.0004026	.0011179
timew1w3	0	(omitted)				
Sex						
Men	.1429961	.0305858	4.68	0.000	.0830489	.2029432
Sex#c.timew1w3						
Men	-.0045371	.0068075	-0.67	0.505	-.0178796	.0088053
timew1w3	0	(omitted)				
Race						
AfrAm	0	(omitted)				
Race#c.timew1w3						
AfrAm	0	(omitted)				
timew1w3	0	(omitted)				

PovStat Below	.0607204	.0297637	2.04	0.041	.0023846	.1190561
PovStat#c.timew1w3 Below	.0050112	.0064915	0.77	0.440	-.0077119	.0177342
timew1w3	0 (omitted)					
w1edubr 2	-.0066477	.0713246	-0.09	0.926	-.1465802	.1332847
3	.0092946	.0746918	0.12	0.901	-.1372082	.1557973
w1edubr#c.timew1w3 2	-.005236	.0145279	-0.36	0.719	-.0337135	.0232415
3	-.011927	.0153361	-0.78	0.437	-.041986	.0181321
timew1w3 w1WRATtotalcent42	0 (omitted)					
c.timew1w3#c.w1WRATtotalcent42	-.0063015	.0020296	-3.10	0.002	-.0102795	-.0023235
timew1w3 1.w1smoke	0 (omitted)					
-.0237018	.0335127	-0.71	0.480	-.0898275	.0424239	
w1smoke#c.timew1w3 1	.0004444	.0072786	0.06	0.951	-.0138322	.0147209
timew1w3 1.w1currdrugs	0 (omitted)					
.0705156	.0371477	1.90	0.058	-.0024055	.1434367	
w1currdrugs#c.timew1w3 1	-.0109515	.0085022	-1.29	0.198	-.027651	.005748
timew1w3 w1hei2010_total_scorecent43	0 (omitted)					
.0001522	.0015175	0.10	0.920	-.0028866	.0031909	
c.timew1w3#c.w1hei2010_total_scorecent43	.0002289	.0003333	0.69	0.493	-.0004261	.0008838
timew1w3 w1BMIcon30	0 (omitted)					
.0035411	.0021092	1.68	0.093	-.0005931	.0076754	
c.timew1w3#c.w1BMIcon30	-.0008421	.0004586	-1.84	0.066	-.0017409	.0000567
timew1w3	0 (omitted)					
w1SRH 2	-.0884056	.0401523	-2.20	0.028	-.1671027	-.0097085
3	-.0625931	.0422785	-1.48	0.139	-.1454574	.0202713
w1SRH#c.timew1w3 2	.0044699	.0089631	0.50	0.618	-.0130977	.0220374
3	-.0004132	.009427	-0.04	0.965	-.0188905	.0180641
timew1w3 w1CEScent15	0 (omitted)					
.0031584	.0014093	2.24	0.025	.0003962	.0059207	
c.timew1w3#c.w1CEScent15	.0003247	.0003137	1.04	0.301	-.0002902	.0009396
timew1w3	0 (omitted)					
w1dxHTN Yes	.0143714	.0323198	0.44	0.657	-.0489903	.0777332

w1dxHTN#c.timew1w3 Yes		.0024996	.0072623	0.34	0.731	-.011736	.0167352
	timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes		-.005925 .0039709	.0398913 .0472518	-0.15 0.08	0.882 0.933	-.0841205 -.0891202	.0722706 .0970619
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0077799 -.0031612	.0088794 .0101449	0.88 -0.31	0.381 0.755	-.0096249 -.0230453	.0251848 .0167229
	timew1w3	0	(omitted)				
w1CVhighChol Yes		-.0295915	.0408622	-0.72	0.471	-.1106985	.0515156
w1CVhighChol#c.timew1w3 Yes		.0134335	.0088023	1.53	0.128	-.0038562	.0307233
	timew1w3 1.w1cvdbr	0 .0150815	(omitted) .0406365	0.37	0.711	-.0650751	.095238
w1cvdbr#c.timew1w3 1		.0062242	.0095998	0.65	0.518	-.012842	.0252905
	timew1w3 invmillsmms	0 .011385	(omitted) .0028137	4.05	0.000	.0058702	.0168997
c.timew1w3#c.invmillsmms		-.0012719	.0005797	-2.19	0.028	-.0024081	-.0001356
	timew1w3 zw1w3HCYTRAJ	0 .020423	(omitted) .0137094	1.49	0.136	-.006447	.0472929
c.timew1w3#c.zw1w3HCYTRAJ		-.0006214	.0029559	-0.21	0.833	-.006415	.0051721
	_cons	3.508127	.084187	41.67	0.000	3.343028	3.673225

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	2.04e-06	.0014084	0
sd(_cons)	.2557203	.0114967	.2341513 .279276
sd(Residual)	.2760712	.0074918	.2617713 .2911523

```
720 . 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
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.zw1w3HCYTRAJ ///
> if sample4kobs==1 & Race==2 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates
Mixed-effects ML regression

Imputations = 5
Number of obs = 1,437

Group variable: HNDID

Number of groups = 783
Obs per group:
min = 1
avg = 1.8
max = 2

Average RVI = 0.0666
Largest FMI = 0.4178

DF adjustment: Large sample

DF: min = 28.04
avg = 44,181.43
max = 302,986.39

Model F test: Equal FMI

F(41, 32721.7) = 8.35
Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0286713	.027492	1.04	0.297	-.0252218	.0825645
w1Agecent48	.0200967	.0028126	7.15	0.000	.0145834	.02561
c.timew1w3#c.w1Agecent48	.0006217	.0005907	1.05	0.293	-.000536	.0017794
timew1w3	0 (omitted)					
Sex						
Men	.0742677	.0501811	1.48	0.139	-.0240991	.1726345
Sex#c.timew1w3						
Men	-.0066735	.0104509	-0.64	0.523	-.0271581	.0138111
timew1w3	0 (omitted)					
Race						
AfrAm	0 (omitted)					
Race#c.timew1w3						
AfrAm	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	.1176543	.048576	2.42	0.015	.022445	.2128636
PovStat#c.timew1w3						
Below	.0059395	.010021	0.59	0.553	-.0137023	.0255813
timew1w3	0 (omitted)					
w1edubr						
2	-.0308484	.113877	-0.27	0.786	-.2540706	.1923738
3	-.1269291	.1191197	-1.07	0.287	-.360409	.1065509
w1edubr#c.timew1w3						
2	-.048734	.0227572	-2.14	0.032	-.0933389	-.0041291
3	-.0482059	.0238649	-2.02	0.043	-.094981	-.0014308

	timew1w3	0	(omitted)				
w1WRATtotalcent42		- .0220117	.0033405	-6.59	0.000	-.0285592	-.0154641
c.timew1w3#c.w1WRATtotalcent42		- .0004248	.0007001	-0.61	0.544	-.0017969	.0009473
	timew1w3	0	(omitted)				
1.w1smoke		- .0454282	.0557623	-0.81	0.417	-.1560775	.0652211
w1smoke#c.timew1w3							
1		.0219708	.0123767	1.78	0.080	-.0026488	.0465905
	timew1w3	0	(omitted)				
1.w1currdrugs		- .0265477	.0696007	-0.38	0.705	-.1671256	.1140302
w1currdrugs#c.timew1w3							
1		- .0015271	.014057	-0.11	0.914	-.0293994	.0263451
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0021242	.0026266	0.81	0.425	-.0032558	.0075043
c.timew1w3#c.w1hei2010_total_scorecent43		.0000203	.000534	0.04	0.970	-.0010341	.0010748
	timew1w3	0	(omitted)				
w1BMIcontent30		- .0022941	.0034192	-0.67	0.502	-.008996	.0044077
c.timew1w3#c.w1BMIcontent30		.0001544	.0007091	0.22	0.828	-.0012355	.0015443
	timew1w3	0	(omitted)				
w1SRH							
2		-.1525518	.0661699	-2.31	0.021	-.2822793	-.0228243
3		-.1035444	.0698955	-1.48	0.139	-.2405856	.0334968
w1SRH#c.timew1w3							
2		.0205204	.0141343	1.45	0.147	-.0071867	.0482274
3		.0212667	.0150323	1.41	0.157	-.0082094	.0507429
	timew1w3	0	(omitted)				
w1CEScent15		.0101649	.0023816	4.27	0.000	.0054878	.0148419
c.timew1w3#c.w1CEScent15		-.0000438	.0004889	-0.09	0.929	-.0010021	.0009146
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.038324	.0539426	0.71	0.478	-.067653	.1443011
w1dxHTN#c.timew1w3							
Yes		-.0054547	.0111488	-0.49	0.625	-.0273088	.0163995
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.1573239	.0653003	2.41	0.016	.0292595	.2853883
Diabetes		.1650093	.0731795	2.25	0.024	.0214476	.3085709
w1dxDiabetes#c.timew1w3							
preDiabetes		-.0322772	.013656	-2.36	0.018	-.059046	-.0055085
Diabetes		-.0079946	.0158114	-0.51	0.613	-.0389932	.023004
	timew1w3	0	(omitted)				

w1CVhighChol						
Yes						
w1CVhighChol#c.timew1w3						
Yes						
timew1w3						
1.w1cvdbr						
w1cvdbr#c.timew1w3						
1						
timew1w3						
invmillsmms						
c.timew1w3#c.invmillsmms						
timew1w3						
zw1w3HCYTRAJ						
c.timew1w3#c.zw1w3HCYTRAJ						
_cons						

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0563424	.0304473	.019536	.1624933
sd(_cons)	.49594	.043661	.4173406	.5893425
corr(timew1w3, _cons)	-.4017288	.0924578	-.5661224	-.2066026
sd(Residual)	.3572373	.0541046	.2654828	.4807035

```
721 .
722 .
723 . save, replace
    file finaldata_imputed_FINAL.dta saved

724 .
    end of do-file

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

726 .
727 . *****TABLE 3: HOMOCYSTEINE TRAJ VS. COGNITIVE CHANGE OVER TIME: INTERACTION BY RACE*****
728 .
729 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS// 
730 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.
> c.timew1w3##c.zw1w3HCYTRAJ##Race    ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)
```

Multiple-imputation estimates Imputations = 5
Mixed-effects ML regression 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: min = 0.00
 avg = .
 max = .
 Model F test: Equal FMI F(13, .) = 15.23
 Prob > F = 0.0000

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0028729	.0180951	0.16	0.874	-.0325929 .0383387
w1Agecent48	-.027713	.0060293	-4.60	0.000	-.0395302 -.0158958
c.timew1w3#c.w1Agecent48	-.0022618	.0011658	-1.94	0.052	-.0045468 .0000232
timew1w3	0	(omitted)			
Race					
AfrAm	-.7914156	.1123699	-7.04	0.000	-1.011657 -.5711747
Race#c.timew1w3					
AfrAm	.0031153	.0219406	0.14	0.887	-.0398876 .0461181
timew1w3	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-.5227447	.116299	-4.49	0.000	-.7506865 -.2948028
PovStat#c.timew1w3					
Below	-.0164988	.0221481	-0.74	0.456	-.0599082 .0269106
timew1w3	0	(omitted)			
invmillsmms	.0090654	.0036115	2.51	0.012	.001987 .0161438
c.timew1w3#c.invmillsmms	-.0018682	.0006373	-2.93	0.003	-.0031174 -.000619
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.0866279	.0933312	-0.93	0.353	-.2695536 .0962978
c.timew1w3#c.zw1w3HCYTRAJ	.0107487	.0185275	0.58	0.562	-.0255647 .047062
Race#c.zw1w3HCYTRAJ					
AfrAm	-.0292758	.1165377	-0.25	0.802	-.2576854 .1991338
Race#c.timew1w3#c.zw1w3HCYTRAJ					
AfrAm	-.0043412	.0226954	-0.19	0.848	-.0488234 .0401411
_cons	28.48005	.0901955	315.76	0.000	28.30327 28.65683

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.1209161	.	.
sd(_cons)	1.660208	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	1.200664	.	.

731 .

732 .

733 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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 =	.
	Largest FMI =	.
	<u>DF:</u> min =	0.00
	avg =	.
	max =	.
Model F test: Equal FMI	F(13, 6.1e+62) =	17.50
	Prob > F =	0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.1286231	.1458751	-0.88	0.378	-.414533 .1572868
w1Agecent48	-.2210892	.0441473	-5.01	0.000	-.3076164 -.1345619
c.timew1w3##c.w1Agecent48	-.0185779	.0093671	-1.98	0.047	-.0369371 -.0002186
timew1w3	0 (omitted)				
Race					
AfrAm	-6.987919	.8228453	-8.49	0.000	-8.600666 -5.375172
Race##c.timew1w3					
AfrAm	.0770304	.1763821	0.44	0.662	-.2686722 .422733
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-4.059875	.8519387	-4.77	0.000	-5.729644 -2.390106
PovStat##c.timew1w3					
Below	-.24037	.1776899	-1.35	0.176	-.5886357 .1078957
timew1w3	0 (omitted)				
invmillsmms	.0516741	.0264586	1.95	0.051	-.0001838 .103532
c.timew1w3##c.invmillsmms	-.0096132	.0050772	-1.89	0.058	-.0195642 .0003379

	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.6037552	.6834055	-0.88	0.377	-1.943205	.7356951
	c.timew1w3#c.zw1w3HCYTRAJ	.0474514	.1491812	0.32	0.750	-.2449385	.3398412
	Race#c.zw1w3HCYTRAJ						
	AfrAm	.0708947	.8533011	0.08	0.934	-1.601545	1.743334
	Race#c.timew1w3#c.zw1w3HCYTRAJ						
	AfrAm	-.0207266	.182582	-0.11	0.910	-.3785807	.3371275
	_cons	82.8171	.659935	125.49	0.000	81.52365	84.11055

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.5444954	.	.
sd(_cons)	11.22534	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	9.964878	.	.

734 .
 735 .
 736 .
 737 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.
 > c.timew1w3##c.zw1w3HCYTRAJ##Race ///
 > 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
DF adjustment: Large sample	Average RVI = 0.0000
	Largest FMI = 0.0000
	<u>DF:</u> min = 9.30e+55
	avg = 9.30e+55
	max = .
Model F test: Equal FMI	F(13, .) = 95.31
	Prob > F = 0.0000

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.214232	.0631949	-19.21	0.000	-1.338092
w1Agecent48	-.1474274	.0198334	-7.43	0.000	-.1863002
c.timew1w3#c.w1Agecent48	-.0081089	.0039092	-2.07	0.038	-.0157708
timew1w3	0	(omitted)			
Race					
AfrAm	-2.919221	.3695794	-7.90	0.000	-3.643584
Race#c.timew1w3					
AfrAm	.0952217	.0735854	1.29	0.196	-.049003
					.2394465

	timew1w3	0	(omitted)				
	timew1w3	0	(omitted)				
	PovStat Below	-1.561314	.3768447	-4.14	0.000	-2.299916	-.8227119
	PovStat#c.timew1w3 Below	.0078707	.0725199	0.11	0.914	-.1342657	.1500071
	timew1w3 invmillsmms	0	(omitted)	1.65	0.100	-.0035518	.0409532
	.0187007	.0113535					
	c.timew1w3#c.invmillsmms	-.0004645	.0020006	-0.23	0.816	-.0043855	.0034566
	timew1w3 zw1w3HCYTRAJ	0	(omitted)	1.00	0.317	-.2935101	.9064746
	.3064823	.3061242					
	c.timew1w3#c.zw1w3HCYTRAJ	-.0821455	.0624891	-1.31	0.189	-.2046218	.0403309
	Race#c.zw1w3HCYTRAJ AfrAm	-.2633489	.3830049	-0.69	0.492	-1.014025	.487327
	Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm	.0216856	.0759769	0.29	0.775	-.1272264	.1705977
	_cons	27.16145	.302164	89.89	0.000	26.56922	27.75368

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.3280183	.1193544	.160759 .6692997
sd(_cons)	5.110365	.1369566	4.848863 5.38597
sd(Residual)	3.716759	.1380092	3.455875 3.997338

738 .
 739 .
 740 .
 741 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.
 > c.timew1w3##c.zw1w3HCYTRAJ##Race ///
 > 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	=	0.0000
Largest FMI	=	0.0000

DF adjustment: Large sample

DF:	min	=	8.08e+57
	avg	=	4.51e+64
	max	=	.

Model F test: Equal FMI

F(13, 6.5e+62)	=	56.80
Prob > F	=	0.0000

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.3866711	.0309261	-12.50	0.000	-.4472851 -.3260571
w1Agecent48	-.0786924	.0093105	-8.45	0.000	-.0969405 -.0604442
c.timew1w3#c.w1Agecent48	-.0033538	.0019141	-1.75	0.080	-.0071053 .0003978
timew1w3	0	(omitted)			
Race AfrAm	-1.607927	.1729396	-9.30	0.000	-1.946882 -1.268972
Race#c.timew1w3 AfrAm	.0270182	.0358402	0.75	0.451	-.0432273 .0972637
timew1w3	0	(omitted)			
timew1w3	0	(omitted)			
PovStat Below	-.5105034	.1762106	-2.90	0.004	-.8558697 -.165137
PovStat#c.timew1w3 Below	-.0279439	.0352473	-0.79	0.428	-.0970273 .0411395
timew1w3	0	(omitted)			
invmillsmms	.0090231	.0052558	1.72	0.086	-.001278 .0193242
c.timew1w3#c.invmillsmms	-.0004109	.0009411	-0.44	0.662	-.0022555 .0014337
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.3166101	.1434099	2.21	0.027	.0355318 .5976883
c.timew1w3#c.zw1w3HCYTRAJ	-.0420964	.0309644	-1.36	0.174	-.1027856 .0185927
Race#c.zw1w3HCYTRAJ	-.2403481	.1803732	-1.33	0.183	-.5938731 .113177
AfrAm					
Race#c.timew1w3#c.zw1w3HCYTRAJ	.0058344	.0374744	0.16	0.876	-.067614 .0792828
_cons	8.551367	.1418183	60.30	0.000	8.273408 8.829326

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0610041	.1390014	.0007012	5.307278
sd(_cons)	2.272647	.0655094	2.147811	2.40474
sd(Residual)	1.815704	.0644026	1.693765	1.946422

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742 .
743 .
744 .
745 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4dobs==1 || HNDID: timew1w3, cov(un)

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      =   0.0000
Largest FMI      =   0.0000
DF: min          = 1.52e+64
      avg          = 9.57e+66
      max          =
Model F test: Equal FMI
F( 13, 2.1e+66) =   41.65
Prob > F          = 0.0000

```

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.2806915	.0422059	6.65	0.000	.1979694 .3634136
w1Agecent48	.1342299	.0138426	9.70	0.000	.107099 .1613609
c.timew1w3#c.w1Agecent48	.0075964	.0027462	2.77	0.006	.002214 .0129788
timew1w3	0	(omitted)			
Race					
AfrAm	1.085778	.2577586	4.21	0.000	.5805805 1.590976
Race#c.timew1w3					
AfrAm	.1662111	.0512931	3.24	0.001	.0656786 .2667437
timew1w3	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	1.246459	.2663372	4.68	0.000	.7244473 1.76847
PovStat#c.timew1w3					
Below	.0783513	.0521536	1.50	0.133	-.0238679 .1805705
timew1w3	0	(omitted)			
invmillsmms	-.0182806	.0083294	-2.19	0.028	-.0346059 -.0019553
c.timew1w3#c.invmillsmms	-.0002013	.0015525	-0.13	0.897	-.0032441 .0028416
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	.0870234	.2138927	0.41	0.684	-.3321987 .5062454
c.timew1w3#c.zw1w3HCYTRAJ	.0456855	.0428355	1.07	0.286	-.0382705 .1296416
Race#c.zw1w3HCYTRAJ					
AfrAm	-.229608	.26674	-0.86	0.389	-.7524088 .2931929
Race#c.timew1w3#c.zw1w3HCYTRAJ					
AfrAm	.0313555	.0526404	0.60	0.551	-.0718177 .1345288

_cons	5.293475	.2075733	25.50	0.000	4.886639	5.700312
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.689438	.0574311	.5855838	.8117109	
sd(_cons)	4.304327	.1321068	4.053037	4.571198	
corr(timew1w3,_cons)	-.4257767	.0349111	-.4917018	-.3549984	
sd(Residual)	1.88383	.2046354	1.522573	2.330803	

746 .
 747 .
 748 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat
 > c.timew1w3##c.zw1w3HCYTRAJ##Race ///
 > if sample4eobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0000
	Largest FMI = 0.0000
DF adjustment: Large sample	DF: min = 2.42e+60
	avg = 2.42e+60
	max = .
Model F test: Equal FMI	F(13, 2.5e+63) = 13.43
	Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0525505	.0217261	-2.42	0.016	-.095133
w1Agecent48	-.0230163	.0064016	-3.60	0.000	-.0355632
c.timew1w3#c.w1Agecent48	-.0028191	.0013815	-2.04	0.041	-.0055268
timew1w3	0	(omitted)			
Race					
AfrAm	-.9581592	.1199294	-7.99	0.000	-1.193216
Race#c.timew1w3					
AfrAm	.0268174	.0259796	1.03	0.302	-.0241017
timew1w3	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-.3952811	.1231824	-3.21	0.001	-.6367142
PovStat#c.timew1w3					
Below	-.0555966	.0260322	-2.14	0.033	-.1066187
timew1w3	0	(omitted)			

	<i>invmillsmm</i>	.0016371	.003722	0.44	0.660	-.0056578	.0089321
	<i>c.timew1w3#c.invmillsmm</i>	-.0005347	.0007291	-0.73	0.463	-.0019637	.0008942
	<i>timew1w3</i> <i>zw1w3HCYTRAJ</i>	0 (omitted)					
	<i>c.timew1w3#c.zw1w3HCYTRAJ</i>	-.1624712	.0984932	-1.65	0.099	-.3555143	.0305718
	<i>Race#c.zw1w3HCYTRAJ</i> AfrAm	-.0137344	.0213205	-0.64	0.519	-.0555217	.028053
		.1499516	.1240686	1.21	0.227	-.0932184	.3931215
	<i>Race#c.timew1w3#c.zw1w3HCYTRAJ</i> AfrAm	-.0098926	.0266256	-0.37	0.710	-.0620779	.0422926
	<i>_cons</i>	7.45925	.0968793	77.00	0.000	7.269371	7.64913

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(<i>timew1w3</i>)	.0883768	.1348224	.0044442	1.757439
sd(_cons)	1.530649	.1067711	1.335056	1.754896
corr(<i>timew1w3</i> ,_cons)	.1056294	.616339	-.8060357	.8686757
sd(Residual)	1.388091	.1001319	1.205078	1.598897

749 .

750 . mi estimate: mixed FluencyWord *c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovSta*

```
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4fobs==1 || HNDID: timew1w3, cov(un)
```

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
	Average RVI = 0.0000
	Largest FMI = 0.0000
DF adjustment: Large sample	DF: min = 4.98e+60
	avg = 4.98e+60
	max = .
Model F test: Equal FMI	F(13, 6.0e+63) = 12.11
	Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
<i>timew1w3</i>	.0628434	.043408	1.45	0.148	-.0222348 .1479215
<i>w1Agecent48</i>	-.0884924	.0153998	-5.75	0.000	-.1186754 -.0583094
<i>c.timew1w3#c.w1Agecent48</i>	-.0030892	.0027775	-1.11	0.266	-.0085329 .0023545
<i>timew1w3</i>	0 (omitted)				
<i>Race</i> AfrAm	-1.960059	.2872509	-6.82	0.000	-2.52306 -1.397057

Race#c.timew1w3						
AfrAm	-.0382134	.0523262	-0.73	0.465	-.140771	.0643441
timew1w3	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	-1.593588	.2969704	-5.37	0.000	-2.175639	-1.011537
PovStat#c.timew1w3						
Below	.0269657	.052593	0.51	0.608	-.0761147	.1300461
timew1w3	0	(omitted)				
invmillsmms	.0115954	.0094361	1.23	0.219	-.006899	.0300898
c.timew1w3#c.invmillsmms	-.0012409	.0015808	-0.78	0.432	-.0043393	.0018574
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.2654549	.240441	-1.10	0.270	-.7367107	.2058008
c.timew1w3#c.zw1w3HCYTRAJ	-.0107871	.0454182	-0.24	0.812	-.0998051	.0782309
Race#c.zw1w3HCYTRAJ						
AfrAm	.3257772	.2985784	1.09	0.275	-.2594258	.9109802
Race#c.timew1w3#c.zw1w3HCYTRAJ						
AfrAm	-.0347353	.0545645	-0.64	0.524	-.1416798	.0722091
_cons	20.73824	.2303221	90.04	0.000	20.28682	21.18966

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.25325	.1775884	.06407	1.001023
sd(_cons)	4.352899	.1635969	4.04378	4.685648
corr(timew1w3,_cons)	-.1705709	.1282654	-.40631	.086458
sd(Residual)	2.929619	.1739636	2.60775	3.291215

751 .

752 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovSt
 > c.timew1w3##c.zw1w3HCYTRAJ##Race ///
 > if sample4gobs==1 || HNDID: timew1w3, cov(un)

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 =	.
	Largest FMI =	.
DF adjustment: Large sample	<u>DF:</u> min =	0.00
	avg =	.
	max =	.
Model F test: Equal FMI	F(13, 4.2e+64) =	9.03
	Prob > F =	0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0102377	.0171499	0.60	0.551	-.0233755 .0438509
w1Agecent48	-.0177405	.0061697	-2.88	0.004	-.029833 -.0056481
c.timew1w3#c.w1Agecent48	-.0034758	.0010932	-3.18	0.001	-.0056183 -.0013332
timew1w3	0	(omitted)			
Race					
AfrAm	-.6980424	.1149411	-6.07	0.000	-.9233229 -.472762
Race#c.timew1w3					
AfrAm	-.0154488	.0205843	-0.75	0.453	-.0557934 .0248957
timew1w3	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-.4938719	.1187872	-4.16	0.000	-.7266905 -.2610533
PovStat#c.timew1w3					
Below	-.0208681	.0206846	-1.01	0.313	-.0614091 .0196729
timew1w3	0	(omitted)			
invmillsmms	.0058943	.0037618	1.57	0.117	-.0014787 .0132673
c.timew1w3#c.invmillsmms	-.0005109	.0006129	-0.83	0.405	-.0017121 .0006903
timew1w3	0	(omitted)			
zw1w3HCYTRAJ	-.1473378	.094946	-1.55	0.121	-.3334285 .0387529
c.timew1w3#c.zw1w3HCYTRAJ	-.0076375	.0174615	-0.44	0.662	-.0418614 .0265864
Race#c.zw1w3HCYTRAJ					
AfrAm	.1448941	.1186729	1.22	0.222	-.0877006 .3774887
Race#c.timew1w3#c.zw1w3HCYTRAJ					
AfrAm	-.0147981	.0211891	-0.70	0.485	-.0563281 .0267318
_cons	7.913556	.0923922	85.65	0.000	7.732471 8.094642

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0145334	.	.
sd(_cons)	1.736476	.	.
corr(timew1w3,_cons)	.9999998	.	.
sd(Residual)	1.189974	.	.

753 .

```
754 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4hobs==1 || HNDID: timew1w3, cov(un)
```

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(13, 3.7e+68) = 14.31	
Prob > F = 0.0000	

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0029221	.0178347	-0.16	0.870	-.0378775 .0320334
w1Agecent48	-.0237134	.0061035	-3.89	0.000	-.0356761 -.0117507
c.timew1w3##c.w1Agecent48	-.0011813	.0011392	-1.04	0.300	-.003414 .0010514
timew1w3	0 (omitted)				
Race					
AfrAm	-1.051677	.1137739	-9.24	0.000	-1.27467 -.8286841
Race#c.timew1w3					
AfrAm	-.0135157	.0214614	-0.63	0.529	-.0555794 .0285479
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.5564234	.1176075	-4.73	0.000	-.7869299 -.3259169
PovStat#c.timew1w3					
Below	.0032895	.0215518	0.15	0.879	-.0389511 .0455302
timew1w3	0 (omitted)				
invmillsmms	.0062472	.0037195	1.68	0.093	-.0010429 .0135373
c.timew1w3##c.invmillsmms	-.0004897	.0006382	-0.77	0.443	-.0017406 .0007612
timew1w3	0 (omitted)				
zw1w3HCYTRAJ	-.1337163	.0936445	-1.43	0.153	-.3172561 .0498236
c.timew1w3##c.zw1w3HCYTRAJ	-.007408	.0180065	-0.41	0.681	-.0427 .027884
Race#c.zw1w3HCYTRAJ					
AfrAm	.0302119	.1172424	0.26	0.797	-.199579 .2600027
Race#c.timew1w3##c.zw1w3HCYTRAJ					
AfrAm	.0140928	.0219455	0.64	0.521	-.0289195 .0571051
_cons	6.458015	.0912374	70.78	0.000	6.279193 6.636836

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0089588
sd(_cons)	1.666313
corr(timew1w3,_cons)	-.9999996
sd(Residual)	1.240542

755 .

756 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovS
 > c.timew1w3##c.zw1w3HCYTRAJ##Race //
 > if sample4iobs==1 || HNDID: timew1w3, cov(un)

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 =	0.0000
	Largest FMI =	0.0000
DF adjustment: Large sample	DF: min =	3.29e+60
	avg =	9.55e+67
	max =	.
Model F test: Equal FMI	F(13, 2.3e+63) =	6.28
	Prob > F =	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0171837	.0137279	-1.25	0.211	-.0440899 .0097224
w1Agecent48	-.0063581	.0034736	-1.83	0.067	-.0131662 .00045
c.timew1w3##c.w1Agecent48	-.0017938	.0008829	-2.03	0.042	-.0035243 -.0000634
timew1w3	0 (omitted)				
Race					
AfrAm	-.4019057	.0647386	-6.21	0.000	-.5287909 -.2750205
Race##c.timew1w3					
AfrAm	.0168206	.0165539	1.02	0.310	-.0156244 .0492656
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.0754616	.0671875	-1.12	0.261	-.2071466 .0562234
PovStat##c.timew1w3					
Below	-.0119866	.0167044	-0.72	0.473	-.0447266 .0207534
timew1w3	0 (omitted)				
invmillsmms	.0003485	.0021443	0.16	0.871	-.0038543 .0045513
c.timew1w3##c.invmillsmms	-.000132	.0005002	-0.26	0.792	-.0011124 .0008483

timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.0807439	.0536012	-1.51	0.132	-.1858002	.0243125
c.timew1w3#c.zw1w3HCYTRAJ	-.0008366	.0138812	-0.06	0.952	-.0280432	.0263701
Race#c.zw1w3HCYTRAJ						
AfrAm	.0575278	.0670537	0.86	0.391	-.0738949	.1889506
Race#c.timew1w3#c.zw1w3HCYTRAJ						
AfrAm	-.0106615	.0169296	-0.63	0.529	-.0438429	.0225199
_cons	9.072344	.0518332	175.03	0.000	8.970753	9.173935

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0769903	.0490198	.0221042
sd(_cons)	.7220942	.0667138	.6024929
corr(timew1w3,_cons)	-.2205207	.2113166	-.5780616
sd(Residual)	.944434	.0463195	.8578762
			1.039725

757 .
 758 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##P
 > c.timew1w3##c.zw1w3HCYTRAJ##Race ///
 > 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 = 0.0000
	Largest FMI = 0.0000
DF adjustment: Large sample	DF: min = .
	avg = .
	max = .
Model F test: Equal FMI	F(13, .) = 26.30
	Prob > F = 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0020294	.0035914	0.57	0.572	-.0050097
w1Agecent48	.0113411	.0010626	10.67	0.000	.0092585
c.timew1w3#c.w1Agecent48	.0006625	.0002321	2.85	0.004	.0002076
timew1w3	0	(omitted)			
Race					
AfrAm	.1855768	.0197386	9.40	0.000	.1468898
Race#c.timew1w3					
AfrAm	.0003183	.004339	0.07	0.942	-.008186
					.0088226

timew1w3		0	(omitted)			
timew1w3		0	(omitted)			
PovStat Below	.0831516	.0205269	4.05	0.000	.0429195	.1233836
PovStat#c.timew1w3 Below	.0044731	.0043922	1.02	0.308	-.0041354	.0130817
timew1w3 invmillsmms	0	(omitted)	0.49	0.623	-.0009422	.0015736
.0003157	.0006418					
c.timew1w3#c.invmillsmms	-.0001374	.0001288	-1.07	0.286	-.0003898	.0001149
timew1w3 zw1w3HCYTRAJ	0	(omitted)	2.88	0.004	.0149643	.0784542
.0467092	.0161967					
c.timew1w3#c.zw1w3HCYTRAJ	-.0024694	.0036009	-0.69	0.493	-.009527	.0045882
Race#c.zw1w3HCYTRAJ AfrAm	-.0095714	.0204048	-0.47	0.639	-.0495641	.0304213
Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm	.0026026	.0044274	0.59	0.557	-.006075	.0112802
_cons	3.314324	.015783	209.99	0.000	3.28339	3.345258

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0254516	.0055934	.0165443 .0391545
sd(_cons)	.2686028	.0079132	.2535324 .284569
sd(Residual)	.2356537	.0079008	.2206662 .2516591

759 .
760 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##Race
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4kobs==1 || HNDID: timew1w3, cov(un)

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	=	0.0000
Largest FMI	=	0.0000

DF adjustment: Large sample

DF:	min	=	4.83e+60
	avg	=	7.29e+65
	max	=	.

Model F test: Equal FMI

F(13, 5.0e+63)	=	33.54
Prob > F	=	0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0012238	.005328	0.23	0.818	-.0092189 .0116665
w1Agecent48	.0180857	.0018455	9.80	0.000	.0144686 .0217028
c.timew1w3#c.w1Agecent48	.0006025	.0003492	1.73	0.084	-.000082 .001287
timew1w3	0	(omitted)			
Race AfrAm	.4038015	.0342871	11.78	0.000	.3366 .4710029
Race#c.timew1w3 AfrAm	.0017897	.0065247	0.27	0.784	-.0109986 .014578
timew1w3	0	(omitted)			
timew1w3	0	(omitted)			
PovStat Below	.2331626	.0356426	6.54	0.000	.1633044 .3030209
PovStat#c.timew1w3 Below	.0051048	.0066841	0.76	0.445	-.0079958 .0182054
timew1w3 invmillsmms	0	(omitted)			
invmillsmms	-.0025669	.0011125	-2.31	0.021	-.0047474 -.0003865
c.timew1w3#c.invmillsmms	-.0005547	.0004901	-1.13	0.258	-.0015152 .0004057
timew1w3 zw1w3HCYTRAJ	0	(omitted)			
zw1w3HCYTRAJ	.0487747	.0281696	1.73	0.083	-.0064367 .1039861
c.timew1w3#c.zw1w3HCYTRAJ	-.0038406	.0054235	-0.71	0.479	-.0144704 .0067891
Race#c.zw1w3HCYTRAJ AfrAm	-.0223378	.0355174	-0.63	0.529	-.0919507 .0472751
Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm	.0153509	.0066847	2.30	0.022	.0022492 .0284526
_cons	4.254688	.0274509	154.99	0.000	4.200885 4.30849

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0671877	.0113798	.0482079 .0936399
sd(_cons)	.5481869	.0198138	.5106961 .58843
corr(timew1w3,_cons)	-.4316226	.0459281	-.5172046 -.3374944
sd(Residual)	.2878694	.0276894	.238408 .3475924

```

761 .
762 .
763 . save, replace
    file finaldata_imputed_FINAL.dta saved

764 .
765 .
766 . //MODEL 2: MODEL 1 + OTHER FACTORS + BODY MASS INDEX///
767 .
768 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.t
    > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
    > c.timew1w3##c.zw1w3HCYTRAJ##Race ///
    > if sample4aobs==1 || HNDID: timew1w3, cov(un)

```

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 =	.
	Largest FMI =	.
	DF: min =	0.00
	avg =	.
	max =	.
Model F test: Equal FMI	F(27,48872.4) =	36.76
	Prob > F =	0.0000

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1008226	.0478628	2.11	0.035	.0069812	.194664
w1Agecent48	-.0178178	.0051833	-3.44	0.001	-.027978	-.0076576
c.timew1w3#c.w1Agecent48	-.0030931	.0011646	-2.66	0.008	-.005376	-.0008103
timew1w3	0 (omitted)					
Race						
AfrAm	-.2256615	.0988471	-2.28	0.022	-.4194072	-.0319158
Race#c.timew1w3						
AfrAm	-.0203202	.0226122	-0.90	0.369	-.0646408	.0240003
timew1w3	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.0347742	.1008455	-0.34	0.730	-.2324279	.1628794
PovStat#c.timew1w3						
Below	-.0308902	.0224725	-1.37	0.169	-.0749355	.013155
timew1w3	0 (omitted)					
w1edubr						
2	.5190516	.2015662	2.58	0.010	.123935	.9141681
3	.7036095	.2206513	3.19	0.001	.270984	1.136235
w1edubr#c.timew1w3						
2	-.0645065	.0462868	-1.39	0.163	-.1552432	.0262302

	3	- .0642351	.0503621	-1.28	0.202	-.1629908	.0345206
	timew1w3 w1WRATTtotalcent42	0 .1463444	(omitted) .0068697	21.30	0.000	.132879	.1598097
c.timew1w3#c.w1WRATTtotalcent42		- .0078194	.00169	-4.63	0.000	-.0111325	-.0045064
	timew1w3 1.w1smoke	0 .0188356	(omitted) .1089184	0.17	0.863	-.1951823	.2328536
	w1smoke#c.timew1w3 1	- .0515938	.0244842	-2.11	0.035	-.0995876	-.0036001
	timew1w3 1.w1currdrugs	0 -.1288804	(omitted) .1397464	-0.92	0.359	-.406067	.1483063
w1currdrugs#c.timew1w3 1		.0207158	.0299908	0.69	0.490	-.0382173	.0796489
	timew1w3 w1hei2010_total_scorecent43	0 -.002915	(omitted) .0049424	-0.59	0.558	-.0128646	.0070345
c.timew1w3#c.w1hei2010_total_scorecent43		.0004161	.0011899	0.35	0.728	-.0019771	.0028094
	timew1w3 w1BMIconcept30	0 -.0016085	(omitted) .0064203	-0.25	0.802	-.0141926	.0109755
c.timew1w3#c.w1BMIconcept30		- .0005783	.0014287	-0.40	0.686	-.0033785	.002222
	timew1w3 invmillsmms	0 .0073908	(omitted) .0030084	2.46	0.014	.0014945	.0132872
c.timew1w3#c.invmillsmms		-.0018421	.0006186	-2.98	0.003	-.0030546	-.0006296
	timew1w3 zw1w3HCYTRAJ	0 -.0617699	(omitted) .0778578	-0.79	0.428	-.2143693	.0908296
c.timew1w3#c.zw1w3HCYTRAJ		.01425	.0179879	0.79	0.428	-.0210059	.049506
Race#c.zw1w3HCYTRAJ AfrAm		.0337853	.0970722	0.35	0.728	-.1564733	.224044
Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm		-.0135165	.0219778	-0.62	0.539	-.0565923	.0295593
_cons		27.31188	.2053792	132.98	0.000	26.90929	27.71447

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0954606
sd(_cons)	1.220285
corr(timew1w3,_cons)	-1
sd(Residual)	1.184859

```

769 .
770 .
771 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Race 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##Race ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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( 27,56003.6) = 33.71
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4276832	.3866241	1.11	0.269	.3302028	1.185569
w1Agecent48	-.1558304	.0392076	-3.97	0.000	-.2326856	-.0789753
c.timew1w3#c.w1Agecent48	-.0240649	.0094375	-2.55	0.011	-.0425647	-.0055652
timew1w3	0 (omitted)					
Race						
AfrAm	-3.319889	.745863	-4.45	0.000	-4.781783	-1.857995
Race#c.timew1w3						
AfrAm	.0043026	.1831243	0.02	0.981	-.3546203	.3632255
timew1w3	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.5256842	.7631024	-0.69	0.491	-2.021339	.9699709
PovStat#c.timew1w3						
Below	-.2728661	.1820344	-1.50	0.134	-.6296473	.0839152
timew1w3	0 (omitted)					
w1edubr						
2	3.922395	1.51803	2.58	0.010	.9469776	6.897812
3	6.051924	1.661671	3.64	0.000	2.794481	9.309367
w1edubr#c.timew1w3						
2	-.5127851	.3741857	-1.37	0.171	-1.24623	.2206594
3	-.4023833	.4063435	-0.99	0.322	-1.199015	.3942483
timew1w3	0 (omitted)					
w1WRATtotalcent42	.9561518	.05189	18.43	0.000	.8544447	1.057859
c.timew1w3#c.w1WRATtotalcent42	-.0333304	.0137908	-2.42	0.016	-.0603663	-.0062944

	timew1w3	0	(omitted)				
	1.w1smoke	-.5555314	.8122365	-0.68	0.494	-2.149217	1.038154
	w1smoke#c.timew1w3						
	1	-.2708558	.1966958	-1.38	0.169	-.6563736	.114662
	timew1w3	0	(omitted)				
	1.w1currdrugs	-.3377688	1.041097	-0.32	0.746	-2.396142	1.720605
	w1currdrugs#c.timew1w3						
	1	.0872685	.2473912	0.35	0.725	-.400007	.5745439
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0145085	.0358619	-0.40	0.687	-.0858799	.0568629
c.timew1w3#c.w1hei2010_total_scorecent43							
	.0051456	.0097713	0.53	0.601	-.0145751	.0248663	
	timew1w3	0	(omitted)				
	w1BMIcon30	-.0238205	.0482796	-0.49	0.622	-.1184468	.0708058
c.timew1w3#c.w1BMIcon30							
	-.0041913	.011589	-0.36	0.718	-.0269066	.018524	
	timew1w3	0	(omitted)				
	invmillsmms	.0410269	.0227636	1.80	0.071	-.0035889	.0856428
c.timew1w3#c.invmillsmms							
	-.009846	.004978	-1.98	0.048	-.0196026	-.0000893	
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.4182799	.5879956	-0.71	0.477	-1.570732	.7341725
c.timew1w3#c.zw1w3HCYTRAJ							
	.0805369	.1458122	0.55	0.581	-.2052507	.3663244	
Race#c.zw1w3HCYTRAJ							
AfrAm	.4780958	.7332824	0.65	0.514	-.9591127	1.915304	
Race#c.timew1w3#c.zw1w3HCYTRAJ							
AfrAm	-.0913075	.1780759	-0.51	0.608	-.4403299	.257715	
_cons	74.43501	1.552907	47.93	0.000	71.39101	77.479	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.3924603	.	.
sd(_cons)	8.33075	.	.
corr(timew1w3,_cons)	-1	.	.
sd(Residual)	9.812271	.	.

```

772 .
773 .
774 .
775 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> 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 = 0.0436
    Largest FMI = 0.4279
    DF: min = 26.75
        avg = 451,173.63
        max = 6691543.54
    F( 27,45883.8) = 54.13
    Prob > F = 0.0000

```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.237273	.1521118	-8.13	0.000	-1.535414 -.9391317
w1Agecent48		-.1480921	.0188801	-7.84	0.000	-.1850983 -.1110859
c.timew1w3#c.w1Agecent48		-.0068831	.0040043	-1.72	0.086	-.0147315 .0009653
timew1w3		0	(omitted)			
Race						
AfrAm		-1.999236	.3626148	-5.51	0.000	-2.710022 -1.28845
Race#c.timew1w3						
AfrAm		.0971479	.0779146	1.25	0.213	-.0555964 .2498923
timew1w3		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		-.1713328	.3662336	-0.47	0.640	-.8891447 .5464791
PovStat#c.timew1w3						
Below		-.0348533	.0763524	-0.46	0.648	-.1845028 .1147962
timew1w3		0	(omitted)			
w1edubr						
2		-.3316493	.7176815	-0.46	0.644	-1.738973 1.075675
3		2.018601	.7830703	2.58	0.010	.4831309 3.554071
w1edubr#c.timew1w3						
2		.098218	.1461631	0.67	0.502	-.1882768 .3847128
3		-.0612303	.1609352	-0.38	0.704	-.3766724 .2542118
timew1w3		0	(omitted)			
w1WRATtotalcent42		.2384997	.0247019	9.66	0.000	.1900837 .2869158
c.timew1w3#c.w1WRATtotalcent42		-.0049559	.0051789	-0.96	0.339	-.0151067 .0051949

	timew1w3 1.w1smoke	0 -.0478359	(omitted) .3849574	-0.12	0.901	-.8045035	.7088317
	w1smoke#c.timew1w3 1	-.042698	.0881965	-0.48	0.629	-.2164375	.1310416
	timew1w3 1.w1currdrugs	0 -.7885788	(omitted) .4511058	-1.75	0.081	-1.67315	.0959927
	w1currdrugs#c.timew1w3 1	.0661919	.1011797	0.65	0.513	-.1326479	.2650317
	timew1w3 w1hei2010_total_scorecent43	0 .0309254	(omitted) .0190008	1.63	0.115	-.0080779	.0699287
c.timew1w3#c.w1hei2010_total_scorecent43		-.00201	.0039223	-0.51	0.609	-.0097823	.0057624
	timew1w3 w1BMIcon30	0 .0210801	(omitted) .0232385	0.91	0.364	-.0244673	.0666275
c.timew1w3#c.w1BMIcon30		-.0011904	.0048797	-0.24	0.807	-.0107545	.0083738
	timew1w3 invmillsmms	0 .0147682	(omitted) .0104836	1.41	0.159	-.0057793	.0353158
c.timew1w3#c.invmillsmms		-.0005455	.0020104	-0.27	0.786	-.0044858	.0033948
	timew1w3 zw1w3HCYTRAJ	0 .3505728	(omitted) .2843642	1.23	0.218	-.2067741	.9079197
c.timew1w3#c.zw1w3HCYTRAJ		-.0783797	.0624001	-1.26	0.209	-.2006819	.0439225
Race#c.zw1w3HCYTRAJ AfrAm		-.1042519	.355569	-0.29	0.769	-.8011548	.5926509
Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm		.0143161	.0759803	0.19	0.851	-.1346027	.163235
	_cons	25.57366	.731965	34.94	0.000	24.13876	27.00857

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.4224532	.0881427	.2806467	.6359124	
sd(_cons)	4.550094	.1316817	4.299184	4.815647	
sd(Residual)	3.605562	.1334335	3.353292	3.876811	

```

776 .
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779 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> 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 = 0.0775
    Largest FMI = 0.3501
    DF: min = 39.54
        avg = 783,705.35
        max = 1.24e+07
    F( 27,15449.7) = 33.19
    Prob > F = 0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.3627022	.0734287	-4.94	0.000	-.5066247 -.2187797
w1Agecent48		-.079439	.009033	-8.79	0.000	-.0971437 -.0617344
c.timew1w3##c.w1Agecent48		-.0035116	.0019703	-1.78	0.075	-.0073735 .0003504
timew1w3		0	(omitted)			
Race						
AfrAm		-1.216579	.1735002	-7.01	0.000	-1.556689 -.8764687
Race##c.timew1w3						
AfrAm		.0237534	.0376715	0.63	0.528	-.0500885 .0975954
timew1w3		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		-.0003054	.1761573	-0.00	0.999	-.3455962 .3449853
PovStat##c.timew1w3						
Below		-.0313189	.0370468	-0.85	0.398	-.1039301 .0412923
timew1w3		0	(omitted)			
w1edubr						
2		-.1482	.3438383	-0.43	0.666	-.8223329 .525933
3		.5859498	.3731382	1.57	0.116	-.1454653 1.317365
w1edubr##c.timew1w3						
2		-.0040765	.0704754	-0.06	0.954	-.1422214 .1340683
3		.0034241	.0775615	0.04	0.965	-.1485975 .1554458
timew1w3		0	(omitted)			
w1WRATtotalcent42		.100626	.0119202	8.44	0.000	.0772599 .1239921
c.timew1w3##c.w1WRATtotalcent42		-.0040793	.002503	-1.63	0.103	-.008985 .0008265

	timew1w3 1.w1smoke	0 (omitted) -.010078	.2002774	-0.05	0.960	-.4084947	.3883387
	w1smoke#c.timew1w3 1	-.0249409	.0458528	-0.54	0.588	-.1163252	.0664435
	timew1w3 1.w1currdrugs	0 (omitted) -.3544538	.2328195	-1.52	0.130	-.8143104	.1054027
	w1currdrugs#c.timew1w3 1	-.0346513	.0517297	-0.67	0.504	-.137112	.0678094
	timew1w3 w1hei2010_total_scorecent43	0 (omitted) .0104955	.008786	1.19	0.239	-.0072682	.0282591
c.timew1w3#c.w1hei2010_total_scorecent43		.0000311	.0019776	0.02	0.988	-.00391	.0039721
	timew1w3 w1BMICent30	0 (omitted) .0305166	.0111721	2.73	0.006	.0086179	.0524152
	c.timew1w3#c.w1BMICent30	-.0017393	.0024014	-0.72	0.469	-.0064463	.0029676
	timew1w3 invmillsmms	0 (omitted) .006704	.0049614	1.35	0.177	-.0030201	.0164281
	c.timew1w3#c.invmillsmms	-.0005042	.0009453	-0.53	0.594	-.002357	.0013486
	timew1w3 zw1w3HCYTRAJ	0 (omitted) .3325781	.135981	2.45	0.014	.0660589	.5990973
	c.timew1w3#c.zw1w3HCYTRAJ	-.0402908	.0309128	-1.30	0.192	-.1008789	.0202973
Race#c.zw1w3HCYTRAJ AfrAm		-.1646173	.170858	-0.96	0.335	-.4994927	.1702582
Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm		.0041944	.0373879	0.11	0.911	-.0690846	.0774733
	_cons	7.99611	.3514193	22.75	0.000	7.307246	8.684974

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.100421	.0829158	.0199031	.5066733	
sd(_cons)	2.059085	.0641449	1.937122	2.188726	
sd(Residual)	1.794971	.062321	1.676887	1.92137	

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783 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4dobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0362
    Largest FMI = 0.2957
    DF: min = 54.69
        avg = 1096805.44
        max = 8642563.04
    F( 27, 61291.2) = 30.46
    Prob > F = 0.0000

```

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4419789	.1102615	4.01	0.000	.2258688	.658089
w1Agecent48	.1208094	.0134898	8.96	0.000	.0943688	.1472499
c.timew1w3##c.w1Agecent48	.0086959	.0028209	3.08	0.002	.0031668	.014225
timew1w3	0	(omitted)				
Race						
AfrAm	.4894218	.2563906	1.91	0.056	-.0130977	.9919412
Race##c.timew1w3						
AfrAm	.1415755	.0539187	2.63	0.009	.0358957	.2472553
timew1w3	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	.4226399	.2641114	1.60	0.110	-.0950107	.9402906
PovStat##c.timew1w3						
Below	.0473102	.0543881	0.87	0.384	-.0592887	.153909
timew1w3	0	(omitted)				
w1edubr						
2	-.6502963	.5250461	-1.24	0.216	-1.679603	.37901
3	-1.575111	.574333	-2.74	0.006	-2.701229	-.4489931
w1edubr##c.timew1w3						
2	-.1562442	.1075425	-1.45	0.146	-.3670271	.0545386
3	-.1262432	.117052	-1.08	0.281	-.3556616	.1031752
timew1w3	0	(omitted)				
w1WRATtotalcent42	-.1612378	.0180176	-8.95	0.000	-.1965637	-.1259119
c.timew1w3##c.w1WRATtotalcent42	-.0040756	.0037097	-1.10	0.272	-.0113467	.0031955

	timew1w3	0	(omitted)				
	1.w1smoke	.4149809	.2785405	1.49	0.137	-.1321367	.9620985
	w1smoke#c.timew1w3						
	1	-.0438819	.0591447	-0.74	0.458	-.1598113	.0720474
	timew1w3	0	(omitted)				
	1.w1currdrugs	-.3899213	.3798434	-1.03	0.309	-1.151243	.3714
	w1currdrugs#c.timew1w3						
	1	.1327389	.0725041	1.83	0.068	-.00958	.2750578
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	-.0040039	.0114902	-0.35	0.728	-.0267596	.0187517
c.timew1w3#c.w1hei2010_total_scorecent43							
		-.0036115	.0026505	-1.36	0.175	-.0088469	.0016239
	timew1w3	0	(omitted)				
	w1BMIcon30	.0212183	.0166915	1.27	0.204	-.0114972	.0539338
c.timew1w3#c.w1BMIcon30							
		-.0052815	.0035005	-1.51	0.131	-.0121424	.0015795
	timew1w3	0	(omitted)				
	invmillsmms	-.017138	.0078963	-2.17	0.030	-.0326145	-.0016614
c.timew1w3#c.invmillsmms							
		.0001198	.0015473	0.08	0.938	-.0029128	.0031525
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	.044562	.2029404	0.22	0.826	-.3531945	.4423185
c.timew1w3#c.zw1w3HCYTRAJ							
		.0479598	.0428012	1.12	0.262	-.0359291	.1318486
Race#c.zw1w3HCYTRAJ							
AfrAm							
Race#c.timew1w3#c.zw1w3HCYTRAJ							
AfrAm							
_cons		6.919148	.5358997	12.91	0.000	5.868518	7.969777

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.6669892	.0595855	.5598529	.7946275	
sd(_cons)	3.986793	.1362591	3.728475	4.263009	
corr(timew1w3,_cons)	-.473059	.033806	-.5365976	-.4041866	
sd(Residual)	1.949775	.2012668	1.592638	2.386998	

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786 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Race 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##Race ///
 > if sample4eobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0211
 Largest FMI = 0.1820

DF adjustment: Large sample DF: min = 138.08
 avg = 2.25e+07
 max = 4.90e+08

Model F test: Equal FMI F(27, 172271.4) = 14.66
 Prob > F = 0.0000

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	- .0390839	.0563631	-0.69	0.488	-.1495591 .0713914
	w1Agecent48	- .0151561	.0062815	-2.41	0.016	-.0274677 -.0028445
	c.timew1w3#c.w1Agecent48	- .0028492	.0014133	-2.02	0.044	-.0056192 -.0000793
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.675055	.121203	-5.57	0.000	-.912609 -.437501
	Race#c.timew1w3					
	AfrAm	.0413205	.0273617	1.51	0.131	-.0123076 .0949485
	timew1w3	0	(omitted)			
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.0877894	.1236616	-0.71	0.478	-.3301622 .1545834
	PovStat#c.timew1w3					
	Below	-.0452446	.0273657	-1.65	0.098	-.0988804 .0083912
	timew1w3	0	(omitted)			
	w1edubr					
	2	.3823101	.2470611	1.55	0.122	-.1019353 .8665554
	3	.5269858	.2687336	1.96	0.050	.0002391 1.053733
	w1edubr#c.timew1w3					
	2	-.0071583	.0549037	-0.13	0.896	-.1147766 .1004599
	3	-.0275241	.0594797	-0.46	0.644	-.1441064 .0890581
	timew1w3	0	(omitted)			
	w1WRATtotalcent42	.0754374	.0084279	8.95	0.000	.0589188 .091956
	c.timew1w3#c.w1WRATtotalcent42	.0033316	.0019057	1.75	0.080	-.0004035 .0070666

	timew1w3 1.w1smoke	0 -.1732395	(omitted) .1389602	-1.25	0.215	-.4480045	.1015255
	w1smoke#c.timew1w3 1	-.0210574	.0299855	-0.70	0.483	-.0798399	.0377251
	timew1w3 1.w1currdrugs	0 .2557355	(omitted) .1538382	1.66	0.097	-.0458555	.5573264
	w1currdrugs#c.timew1w3 1	-.0288537	.0351402	-0.82	0.412	-.0977328	.0400254
	timew1w3 w1hei2010_total_scorecent43	0 -.0035338	(omitted) .0055353	-0.64	0.524	-.0144786	.0074111
c.timew1w3#c.w1hei2010_total_scorecent43		.0000973	.0012295	0.08	0.937	-.0023126	.0025071
	timew1w3 w1BMIcon30	0 -.0205217	(omitted) .0079359	-2.59	0.010	-.0360764	-.0049669
	c.timew1w3#c.w1BMIcon30	-.0001006	.0017636	-0.06	0.955	-.0035573	.0033562
	timew1w3 invmillsmms	0 .0014638	(omitted) .003557	0.41	0.681	-.0055078	.0084354
	c.timew1w3#c.invmillsmms	-.000629	.0007306	-0.86	0.389	-.002061	.000803
	timew1w3 zw1w3HCYTRAJ	0 -.1518655	(omitted) .0942609	-1.61	0.107	-.3366136	.0328826
	c.timew1w3#c.zw1w3HCYTRAJ	-.0132145	.0213209	-0.62	0.535	-.0550027	.0285738
Race#c.zw1w3HCYTRAJ AfrAm		.177169	.1188359	1.49	0.136	-.0557452	.4100831
Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm		-.0100004	.0265923	-0.38	0.707	-.0621203	.0421195
	_cons	6.733122	.2521699	26.70	0.000	6.238857	7.227386

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.1283752	.0893237	.0328256	.5020523	
sd(_cons)	1.431425	.1068077	1.236673	1.656846	
corr(timew1w3,_cons)	-.1004953	.2529005	-.5381653	.3798616	
sd(Residual)	1.347312	.097753	1.168719	1.553196	

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```
788 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Race 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##Race ///
> if sample4fobs==1 || HNDID: timew1w3, cov(un)
```

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	=	0.0571
	Largest FMI	=	0.3181
DF adjustment: Large sample	DF: min	=	47.55
	avg	=	7260894.19
	max	=	2.20e+08
Model F test: Equal FMI	F(27, 25276.1)	=	12.71
	Prob > F	=	0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0256396	.1138155	-0.23	0.822	-.2488359 .1975567
w1Agecent48	-.0824782	.0150393	-5.48	0.000	-.1119557 -.0530007
c.timew1w3#c.w1Agecent48	-.0022877	.0028582	-0.80	0.423	-.0078898 .0033143
timew1w3	0 (omitted)				
Race					
AfrAm	-1.297087	.2875016	-4.51	0.000	-1.860584 -.733589
Race#c.timew1w3					
AfrAm	-.0307213	.0553152	-0.56	0.579	-.13914 .0776974
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.6783045	.2960826	-2.29	0.022	-1.258634 -.0979749
PovStat#c.timew1w3					
Below	.0210076	.0554033	0.38	0.705	-.087582 .1295971
timew1w3	0 (omitted)				
w1edubr					
2	-.3532972	.5831269	-0.61	0.545	-1.496272 .7896776
3	.8829956	.6344426	1.39	0.164	-.3605792 2.12657
w1edubr#c.timew1w3					
2	.0920109	.1106446	0.83	0.406	-.1250073 .3090292
3	.0567238	.1215298	0.47	0.641	-.1816704 .2951181
timew1w3	0 (omitted)				
w1WRATtotalcent42	.1624467	.0197245	8.24	0.000	.1237867 .2011068
c.timew1w3#c.w1WRATtotalcent42	.0023219	.0037601	0.62	0.537	-.0050479 .0096918
timew1w3	0 (omitted)				

	1.w1smoke	- .527783	.3356044	-1.57	0.121	-1.198053	.142487
	w1smoke#c.timew1w3	.0325623	.0627432	0.52	0.604	-.0907319	.1558565
	timew1w3	0	(omitted)				
	1.w1currdrugs	.422669	.3925737	1.08	0.284	-.3557123	1.20105
	w1currdrugs#c.timew1w3	-.0217141	.0714446	-0.30	0.761	-.1617923	.118364
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0231782	.0133862	1.73	0.090	-.0037431	.0500994
	c.timew1w3#c.w1hei2010_total_scorecent43	-.0030106	.002542	-1.18	0.236	-.007996	.0019749
	timew1w3	0	(omitted)				
	w1BMIcontent30	.0033984	.0189886	0.18	0.858	-.0338399	.0406367
	c.timew1w3#c.w1BMIcontent30	.0026041	.0035501	0.73	0.463	-.0043542	.0095625
	timew1w3	0	(omitted)				
	invmillsmms	.0095581	.0089822	1.06	0.287	-.0080467	.027163
	c.timew1w3#c.invmillsmms	-.0013623	.001584	-0.86	0.390	-.0044668	.0017422
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.1754485	.2290911	-0.77	0.444	-.6244603	.2735632
	c.timew1w3#c.zw1w3HCYTRAJ	-.0158065	.0455264	-0.35	0.728	-.1050368	.0734239
	Race#c.zw1w3HCYTRAJ						
	AfrAm	.3760619	.2841059	1.32	0.186	-.1807759	.9328997
	Race#c.timew1w3#c.zw1w3HCYTRAJ						
	AfrAm	-.0286038	.0546998	-0.52	0.601	-.1358136	.078606
	_cons	19.90939	.6009795	33.13	0.000	18.73103	21.08775

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.2478239	.1829843	.0582964	1.053524	
sd(_cons)	4.01467	.1687228	3.697232	4.359362	
corr(timew1w3,_cons)	-.1633199	.1450607	-.4275556	.126627	
sd(Residual)	2.933453	.1740466	2.611412	3.295208	

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```
790 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Race 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##Race ///
> if sample4gobs==1 || HNDID: timew1w3, cov(un)
```

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	=	.
Largest FMI	=	.
DF: min	=	0.00
avg	=	.
max	=	.
Model F test: Equal FMI	F(27,16041.7)	= 17.74
	Prob > F	= 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0231321	.0442791	0.52	0.601	-.0636565	.1099207
w1Agecent48	-.0079959	.0057163	-1.40	0.162	-.0191997	.0032079
c.timew1w3##c.w1Agecent48	-.0034964	.0011296	-3.10	0.002	-.0057104	-.0012824
timew1w3	0 (omitted)					
Race						
AfrAm	-.2768801	.1105461	-2.50	0.012	-.4935918	-.0601684
Race##c.timew1w3						
AfrAm	-.0120801	.0217076	-0.56	0.578	-.0546264	.0304663
timew1w3	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	-.1359244	.1129845	-1.20	0.229	-.3573916	.0855428
PovStat##c.timew1w3						
Below	-.0187916	.0218151	-0.86	0.389	-.0615491	.0239659
timew1w3	0 (omitted)					
w1edubr						
2	-.0892695	.2233313	-0.40	0.689	-.5270046	.3484655
3	.2041521	.2428069	0.84	0.400	-.2717728	.680077
w1edubr##c.timew1w3						
2	.0000527	.0425718	0.00	0.999	-.0833869	.0834922
3	-.0205107	.0467316	-0.44	0.661	-.1121061	.0710847
timew1w3	0 (omitted)					
w1WRATtotalcent42	.1128883	.0075888	14.88	0.000	.0980127	.1277638
c.timew1w3##c.w1WRATtotalcent42	.00015	.0014856	0.10	0.920	-.0027618	.0030619
timew1w3	0 (omitted)					

	1.w1smoke	.1738096	.1273637	1.36	0.177	-.0801628	.4277821
	w1smoke#c.timew1w3						
1		-.0148793	.0246365	-0.60	0.546	-.0632737	.0335151
	timew1w3	0	(omitted)				
	1.w1currdrugs	.3890381	.1759105	2.21	0.037	.0254606	.7526156
	w1currdrugs#c.timew1w3						
1		-.0116081	.0296057	-0.39	0.695	-.0698475	.0466312
	timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43	.0007786	.0047906	0.16	0.871	-.0086949	.010252
c.timew1w3#c.w1hei2010_total_scorecent43		.0002566	.0010656	0.24	0.810	-.0018467	.0023598
	timew1w3	0	(omitted)				
	w1BMIcon30	-.0134611	.0073458	-1.83	0.067	-.027881	.0009588
c.timew1w3#c.w1BMIcon30		-.0010532	.0014074	-0.75	0.454	-.0038122	.0017058
	timew1w3	0	(omitted)				
	invmillsmms	.0056321	.0034135	1.65	0.099	-.0010582	.0123224
c.timew1w3#c.invmillsmms		-.0005486	.0006154	-0.89	0.373	-.0017548	.0006575
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.1118899	.0858603	-1.30	0.193	-.280173	.0563932
c.timew1w3#c.zw1w3HCYTRAJ		-.0072065	.0175442	-0.41	0.681	-.0415925	.0271795
Race#c.zw1w3HCYTRAJ	AfrAm	.1704711	.1072836	1.59	0.112	-.0398009	.380743
Race#c.timew1w3#c.zw1w3HCYTRAJ	AfrAm	-.0154809	.0212699	-0.73	0.467	-.0571691	.0262074
	_cons	7.275174	.2290143	31.77	0.000	6.826262	7.724086

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.0170946	.	.
sd(_cons)	1.47795	.	.
corr(timew1w3, _cons)	.9999968	.	.
sd(Residual)	1.192052	.	.

```

791 .
792 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4hobs==1 || HNDID: timew1w3, cov(un)
Hessian is not negative semidefinite
an error occurred when mi estimate executed mixed on m=2
r(430);

end of do-file

r(430);

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

794 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> 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     =     0.0561
Largest FMI     =     0.3078
DF adjustment: Large sample
DF: min         =     50.65
      avg         =   4.13e+08
      max         =   1.28e+10
Model F test: Equal FMI
F( 27,27658.9) =     25.47
Prob > F        =     0.0000

```

	DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0454091	.0461962	-0.98	0.326	-.1359652 .0451471
	w1Agecent48	-.0165654	.0055547	-2.98	0.003	-.0274533 -.0056775
	c.timew1w3##c.w1Agecent48	-.0008872	.0011684	-0.76	0.448	-.0031773 .0014028
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.559043	.1058066	-5.28	0.000	-.7664231 -.351663
	Race##c.timew1w3					
	AfrAm	-.0220585	.0225701	-0.98	0.328	-.0662962 .0221792
	timew1w3	0	(omitted)			
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.1186144	.1089679	-1.09	0.276	-.3321978 .094969
	PovStat##c.timew1w3					
	Below	.0019211	.0225715	0.09	0.932	-.0423183 .0461604
	timew1w3	0	(omitted)			

w1edubr							
2	-.2107613	.2157948	-0.98	0.329	-.6337199	.2121972	
3	.1403801	.2352598	0.60	0.551	-.320748	.6015083	
w1edubr#c.timew1w3							
2	.0574092	.0441867	1.30	0.194	-.0291955	.144014	
3	.0279882	.0483937	0.58	0.563	-.0668624	.1228388	
timew1w3	0	(omitted)					
w1WRATTtotalcent42	.1235239	.0073137	16.89	0.000	.1091893	.1378585	
c.timew1w3#c.w1WRATTtotalcent42	-.001728	.0015528	-1.11	0.266	-.0047716	.0013156	
timew1w3	0	(omitted)					
1.w1smoke	-.051829	.1253651	-0.41	0.681	-.3017288	.1980708	
w1smoke#c.timew1w3							
1	.0042592	.0277707	0.15	0.878	-.0510206	.059539	
timew1w3	0	(omitted)					
1.w1currdrugs	.1182511	.1428288	0.83	0.409	-.1632393	.3997415	
w1currdrugs#c.timew1w3							
1	.017093	.0300862	0.57	0.570	-.0419732	.0761592	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.000617	.0051003	-0.12	0.904	-.010858	.0096241	
c.timew1w3#c.w1hei2010_total_scorecent43	.0011907	.0011855	1.00	0.320	-.0011843	.0035657	
timew1w3	0	(omitted)					
w1BMIcon30	-.0056951	.007002	-0.81	0.416	-.0194255	.0080353	
c.timew1w3#c.w1BMIcon30	-.0022043	.0014624	-1.51	0.132	-.0050712	.0006625	
timew1w3	0	(omitted)					
invmillsmms	.0052222	.003295	1.58	0.113	-.0012359	.0116803	
c.timew1w3#c.invmillsmms							
	-.0004386	.0006377	-0.69	0.492	-.0016885	.0008112	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	-.0896217	.0826471	-1.08	0.278	-.2516071	.0723637	
c.timew1w3#c.zw1w3HCYTRAJ	-.0087558	.0180062	-0.49	0.627	-.0440474	.0265359	
Race#c.zw1w3HCYTRAJ							
AfrAm	.063837	.1035239	0.62	0.537	-.1390661	.2667401	
Race#c.timew1w3#c.zw1w3HCYTRAJ							
AfrAm	.0136905	.0219532	0.62	0.533	-.0293373	.0567183	
_cons	5.980075	.2234726	26.76	0.000	5.541917	6.418233	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.90e-06	.0006237	4.6e-286	7.8e+273
sd(_cons)	1.347233	.0391214	1.272697	1.426133
sd(Residual)	1.238239	.024777	1.190616	1.287766

795 .
796 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovS
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4iobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0331
Largest FMI = 0.1680
DF: min = 160.74
avg = 9.77e+07
max = 3.07e+09

F(27,71677.0) = 7.83
Prob > F = 0.0000

	clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.0570729	.0358143	-1.59	0.111	-.1272788 .013133
w1Agecent48		-.0028971	.0034558	-0.84	0.402	-.0096705 .0038762
c.timew1w3##c.w1Agecent48		-.0021465	.0009031	-2.38	0.017	-.0039165 -.0003766
timew1w3		0	(omitted)			
Race						
AfrAm		-.3060755	.0660003	-4.64	0.000	-.4354338 -.1767173
Race##c.timew1w3						
AfrAm		.0158159	.0173508	0.91	0.362	-.0181911 .049823
timew1w3		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		.0481256	.0682241	0.71	0.481	-.085592 .1818431
PovStat##c.timew1w3						
Below		-.006244	.0174667	-0.36	0.721	-.0404781 .0279901
timew1w3		0	(omitted)			
w1edubr						
2		-.0202574	.137616	-0.15	0.883	-.2900484 .2495337
3		.1659809	.1492745	1.11	0.266	-.126641 .4586028

w1edubr#c.timew1w3							
2	.0422812	.0347449	1.22	0.224	-.025826	.1103884	
3	.0572064	.0380429	1.50	0.133	-.0173669	.1317797	
timew1w3	0	(omitted)					
w1WRATTtotalcent42	.029003	.0046043	6.30	0.000	.0199783	.0380278	
c.timew1w3#c.w1WRATTtotalcent42	-.0011451	.0012011	-0.95	0.340	-.0034998	.0012097	
timew1w3	0	(omitted)					
1.w1smoke	-.0301828	.0756342	-0.40	0.690	-.1791214	.1187558	
w1smoke#c.timew1w3							
1	.0100041	.0199543	0.50	0.616	-.0292614	.0492697	
timew1w3	0	(omitted)					
1.w1currdrugs	.3114172	.0928595	3.35	0.001	.1280353	.4947992	
w1currdrugs#c.timew1w3							
1	-.0578251	.0227559	-2.54	0.011	-.102459	-.0131912	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	.0023303	.0029994	0.78	0.438	-.0035665	.0082271	
c.timew1w3#c.w1hei2010_total_scorecent43	.0004081	.0008283	0.49	0.623	-.0012225	.0020388	
timew1w3	0	(omitted)					
w1BMICent30	-.0041231	.0043265	-0.95	0.341	-.0126031	.0043569	
c.timew1w3#c.w1BMICent30	-.000186	.0011204	-0.17	0.868	-.002382	.0020101	
timew1w3	0	(omitted)					
invmillsmms	.0005138	.0020851	0.25	0.805	-.003573	.0046006	
c.timew1w3#c.invmillsmms	-.0002113	.0004995	-0.42	0.672	-.0011903	.0007676	
timew1w3	0	(omitted)					
zw1w3HCYTRAJ	-.0679738	.0520779	-1.31	0.192	-.1700446	.0340971	
c.timew1w3#c.zw1w3HCYTRAJ	-.0023483	.0138767	-0.17	0.866	-.0295463	.0248496	
Race#c.zw1w3HCYTRAJ							
AfrAm	.0627522	.0651097	0.96	0.335	-.0648604	.1903648	
Race#c.timew1w3#c.zw1w3HCYTRAJ							
AfrAm	-.0095958	.0169003	-0.57	0.570	-.0427199	.0235283	
_cons	8.852584	.1400653	63.20	0.000	8.578	9.127169	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0659838	.0567558	.0122258	.3561209
sd(_cons)	.651479	.072681	.5235252	.8107059
corr(timew1w3,_cons)	-.1780781	.2953569	-.6514688	.3951192
sd(Residual)	.9507198	.0458522	.8649678	1.044973

797 .

```
798 . mi estimate: mixed LnTrailsAtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##P
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> 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 = 0.0339
Largest FMI = 0.3346

DF adjustment: Large sample

DF: min = 43.16
avg = 3.80e+07
max = 6.19e+08

Model F test: Equal FMI

F(27, 71758.0) = 16.11
Prob > F = 0.0000

	LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0133393	.0094748	1.41	0.159	-.0052346	.0319132
w1Agecent48	.0111428	.0010698	10.42	0.000	.009046	.0132396
c.timew1w3#c.w1Agecent48	.0005939	.0002376	2.50	0.012	.0001282	.0010596
timew1w3	0	(omitted)				
Race						
AfrAm	.1534365	.0203902	7.53	0.000	.1134724	.1934007
Race#c.timew1w3						
AfrAm	-.0014713	.0045357	-0.32	0.746	-.0103611	.0074184
timew1w3	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	.0531807	.021063	2.52	0.012	.0118978	.0944635
PovStat#c.timew1w3						
Below	.0012382	.0045779	0.27	0.787	-.0077343	.0102106
timew1w3	0	(omitted)				
w1edubr						
2	-.0637492	.0429657	-1.48	0.138	-.1480048	.0205064
3	-.052078	.0467511	-1.11	0.265	-.1437767	.0396207
w1edubr#c.timew1w3						
2	-.0080176	.0092038	-0.87	0.384	-.0260626	.0100274
3	-.0127011	.0100635	-1.26	0.207	-.0324325	.0070304
timew1w3	0	(omitted)				
w1WRATtotalcent42	-.0079795	.001439	-5.55	0.000	-.0107998	-.0051591
c.timew1w3#c.w1WRATtotalcent42	-.0004791	.0003165	-1.51	0.130	-.0010995	.0001414
timew1w3	0	(omitted)				

1.w1smoke	.0042696	.0230666	0.19	0.853	-.0412098	.0497489
w1smoke#c.timew1w3						
1	.0028817	.0050646	0.57	0.569	-.0070486	.012812
timew1w3	0	(omitted)				
1.w1currdrugs	.0622426	.0272926	2.28	0.023	.0085565	.1159286
w1currdrugs#c.timew1w3						
1	-.0041044	.0060471	-0.68	0.497	-.0159699	.0077611
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	-.000239	.0010134	-0.24	0.815	-.0022825	.0018046
c.timew1w3#c.w1hei2010_total_scorecent43	.0001118	.000223	0.50	0.617	-.0003279	.0005515
timew1w3	0	(omitted)				
w1BMICent30	.0014399	.0013325	1.08	0.280	-.0011719	.0040517
c.timew1w3#c.w1BMICent30	-.0002653	.0002919	-0.91	0.363	-.0008373	.0003068
timew1w3	0	(omitted)				
invmillsmms	.0004415	.0006318	0.70	0.485	-.0007968	.0016799
c.timew1w3#c.invmillsmms	-.0001306	.0001284	-1.02	0.309	-.0003823	.000121
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	.0462244	.0159493	2.90	0.004	.0149642	.0774845
c.timew1w3#c.zw1w3HCYTRAJ	-.0024997	.0035922	-0.70	0.487	-.0095403	.0045409
Race#c.zw1w3HCYTRAJ						
AfrAm	-.0131343	.0200672	-0.65	0.513	-.0524653	.0261968
Race#c.timew1w3#c.zw1w3HCYTRAJ						
AfrAm	.0020875	.0044096	0.47	0.636	-.0065551	.0107302
_cons	3.393737	.0437357	77.60	0.000	3.307983	3.479491

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0228527	.0059529	.0137153	.0380775	
sd(_cons)	.2581652	.00782	.2432843	.2739563	
sd(Residual)	.2373237	.0076882	.2227235	.2528809	

```
800 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##Race
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMICent
> c.timew1w3##c.zw1w3HCYTRAJ##Race ///
> if sample4kobs==1 || HNDID: timew1w3, cov(un)

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 = 0.0496
Largest FMI = 0.2511
DF: min = 74.73
    avg = 9312799.36
    max = 9.27e+07
F( 27, 32808.7) = 28.09
Prob > F = 0.0000
```

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0066839	.0145208	0.46	0.645	-.0217838 .0351515
w1Agecent48	.0162244	.0017711	9.16	0.000	.0127531 .0196956
c.timew1w3#c.w1Agecent48	.0006235	.000357	1.75	0.081	-.0000763 .0013234
timew1w3	0 (omitted)				
Race					
AfrAm	.3044196	.0337148	9.03	0.000	.2383392 .3704999
Race#c.timew1w3					
AfrAm	.0002344	.0068505	0.03	0.973	-.0131923 .0136611
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	.1247889	.0348576	3.58	0.000	.0564687 .1931091
PovStat#c.timew1w3					
Below	.0012448	.0069653	0.18	0.858	-.0124072 .0148968
timew1w3	0 (omitted)				
w1edubr					
2	-.1164556	.0699619	-1.66	0.096	-.2535863 .0206751
3	-.2204535	.0754315	-2.92	0.003	-.3682983 -.0726088
w1edubr#c.timew1w3					
2	-.0060427	.0140447	-0.43	0.667	-.033572 .0214865
3	-.0061752	.0152323	-0.41	0.685	-.0360332 .0236828
timew1w3	0 (omitted)				
w1WRATtotalcent42	-.0264293	.0024011	-11.01	0.000	-.0311356 -.021723
c.timew1w3#c.w1WRATtotalcent42	-.0001236	.0004982	-0.25	0.804	-.0011 .0008528
timew1w3	0 (omitted)				
1.w1smoke	.0048507	.0386623	0.13	0.900	-.0716726 .081374

w1smoke#c.timew1w3 1	.0084336	.0080179	1.05	0.294	-.0073529	.0242202
timew1w3 1.w1currdrugs	0 .0002296	(omitted) .0468241	0.00	0.996	-.0925369	.0929961
w1currdrugs#c.timew1w3 1	-.0034707	.0094375	-0.37	0.713	-.0220527	.0151112
timew1w3 w1hei2010_total_scorecent43	0 .0005061	(omitted) .001542	0.33	0.744	-.0025586	.0035707
c.timew1w3#c.w1hei2010_total_scorecent43	-.0001397	.0003568	-0.39	0.696	-.0008506	.0005711
timew1w3 w1BMIcon30	0 .0013939	(omitted) .0022127	0.63	0.529	-.0029437	.0057314
c.timew1w3#c.w1BMIcon30	-.0005473	.0004431	-1.24	0.217	-.0014158	.0003212
timew1w3 invmillsmms	0 -.0023342	(omitted) .0010425	-2.24	0.025	-.0043775	-.0002909
c.timew1w3#c.invmillsmms	-.0003111	.0004698	-0.66	0.508	-.0012318	.0006097
timew1w3 zw1w3HCYTRAJ	0 .0432745	(omitted) .0263675	1.64	0.101	-.0084048	.0949539
c.timew1w3#c.zw1w3HCYTRAJ	-.0042588	.0053888	-0.79	0.429	-.0148207	.0063031
Race#c.zw1w3HCYTRAJ AfrAm	-.029793	.0332128	-0.90	0.370	-.0948888	.0353029
Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm	.0154494	.0066288	2.33	0.020	.0024571	.0284417
_cons	4.523517	.0714057	63.35	0.000	4.383556	4.663478

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0602017	.0129769	.0394572	.0918525	
sd(_cons)	.492369	.021352	.452249	.5360481	
corr(timew1w3,_cons)	-.4757555	.0476986	-.563756	-.3770746	
sd(Residual)	.3022399	.027492	.2528865	.361225	

```

802 .
803 . save, replace
      file finaldata_imputed_FINAL.dta saved

804 .
      end of do-file

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

806 .
807 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
808 .
809 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.t
> 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##Race ///
> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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( 43,88086.0) = 23.76
Prob > F = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.1061662	.0555979	1.91	0.056	-.0028244	.2151569
w1Agecent48	-.0197782	.0057012	-3.47	0.001	-.0309562	-.0086002
c.timew1w3##c.w1Agecent48	-.0029592	.0012872	-2.30	0.022	-.005483	-.0004355
timew1w3	0 (omitted)					
Race						
AfrAm	-.2507767	.1015016	-2.47	0.014	-.4497576	-.0517958
Race##c.timew1w3						
AfrAm	-.0172895	.0232502	-0.74	0.457	-.0628655	.0282865
timew1w3	0 (omitted)					
timew1w3	0 (omitted)					
PovStat						
Below	.0022261	.1023977	0.02	0.983	-.1984707	.2029228
PovStat##c.timew1w3						
Below	-.0317323	.0228145	-1.39	0.164	-.076448	.0129833
timew1w3	0 (omitted)					
w1edubr						
2	.5229287	.2008931	2.60	0.009	.1291562	.9167012

	3	.7013483	.2197974	3.19	0.001	.2704848	1.132212
w1edubr#c.timew1w3	2	-.061182	.0463218	-1.32	0.187	-.1519871	.029623
	3	-.0616395	.0503425	-1.22	0.221	-.1603434	.0370645
w1WRATTtotalcent42	timew1w3	0 .1446047	(omitted) .006934	20.85	0.000	.1310126	.1581968
c.timew1w3#c.w1WRATTtotalcent42		-.0077839	.0017086	-4.56	0.000	-.0111335	-.0044342
1.w1smoke	timew1w3	0 .0311776	(omitted) .109351	0.29	0.776	-.1836063	.2459616
w1smoke#c.timew1w3	1	-.0521422	.0247095	-2.11	0.035	-.1005765	-.0037079
1.w1currdrugs	timew1w3	0 -.0944654	(omitted) .1395501	-0.68	0.500	-.3708576	.1819267
w1currdrugs#c.timew1w3	1	.0195181	.0303323	0.64	0.520	-.0400952	.0791313
w1hei2010_total_scorecent43	timew1w3	0 -.003547	(omitted) .004948	-0.72	0.477	-.0135007	.0064067
c.timew1w3#c.w1hei2010_total_scorecent43		.0005782	.0012118	0.48	0.636	-.0018677	.0030241
w1BMIcon30	timew1w3	0 -.0014683	(omitted) .0069751	-0.21	0.833	-.0151418	.0122052
c.timew1w3#c.w1BMIcon30		-.0001023	.0015423	-0.07	0.947	-.0031253	.0029206
w1SRH	timew1w3	0 .1872522 .0882084	(omitted) .1315256 .1412799	1.42 0.62	0.155 0.532	-.0705333 -.1886959	.4450377 .3651127
w1SRH#c.timew1w3	2	-.0061005	.030151	-0.20	0.840	-.0651955	.0529946
	3	-.0079417	.0323036	-0.25	0.806	-.0712562	.0553728
w1CEScent15	timew1w3	0 -.0055888	(omitted) .0045818	-1.22	0.223	-.0145696	.0033919
c.timew1w3#c.w1CEScent15		.0005378	.0010464	0.51	0.607	-.0015132	.0025887
w1dxHTN	timew1w3	0 .0355509	(omitted) .1089469	0.33	0.744	-.1779926	.2490945
Yes							
w1dxHTN#c.timew1w3	Yes	-.0108757	.025311	-0.43	0.667	-.0605031	.0387517
w1dxDiabetes	timew1w3	0 -.0776296 -.0958062	(omitted) .1264523 .1590549	-0.61 -0.60	0.539 0.548	-.3255816 -.4097956	.1703225 .2181833
w1dxDiabetes#c.timew1w3							

preDiabetes	.0363322	.0287172	1.27	0.206	-.0199557	.09262
Diabetes	-.0487308	.0359749	-1.35	0.176	-.119376	.0219144
timew1w3	0 (omitted)					
w1CVhighChol						
Yes	.1762484	.1201617	1.47	0.143	-.0596654	.4121623
w1CVhighChol#c.timew1w3						
Yes	.0060468	.0279359	0.22	0.829	-.0487421	.0608357
timew1w3	0 (omitted)					
1.w1cvdbr	-.007522	.1410231	-0.05	0.958	-.2856032	.2705592
w1cvdbr#c.timew1w3						
1	-.0022706	.0324851	-0.07	0.944	-.0662418	.0617006
timew1w3	0 (omitted)					
invmillsmms	.0076862	.0030081	2.56	0.011	.0017904	.0135819
c.timew1w3#c.invmillsmms						
	-.0018718	.0006205	-3.02	0.003	-.0030879	-.0006557
timew1w3	0 (omitted)					
zw1w3HCYTRAJ	-.0597096	.0782352	-0.76	0.445	-.2130488	.0936296
c.timew1w3#c.zw1w3HCYTRAJ						
Race#c.zw1w3HCYTRAJ	.0155461	.0180814	0.86	0.390	-.019893	.0509853
AfrAm	.0284623	.0971845	0.29	0.770	-.1620167	.2189414
Race#c.timew1w3#c.zw1w3HCYTRAJ						
AfrAm	-.0129787	.0220261	-0.59	0.556	-.0561493	.0301919
_cons	27.15958	.2379087	114.16	0.000	26.69327	27.62589

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0972738
sd(_cons)	1.217341
corr(timew1w3,_cons)	-1
sd(Residual)	1.181544

810 .
 811 .
 812 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat > 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##Race //> if sample4aobs==1 || HNDID: timew1w3, cov(un)

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(43,90221.0) = 21.74
		Prob > F = 0.0000

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.5203453	.4514052	1.15	0.249	-.3645447 1.405235
w1Agecent48	-.1731842	.0426971	-4.06	0.000	-.2568742 -.0894942
c.timew1w3#c.w1Agecent48	-.0236672	.010348	-2.29	0.022	-.0439516 -.0033828
timew1w3	0 (omitted)				
Race					
AfrAm	-3.519031	.7633146	-4.61	0.000	-5.015214 -2.022849
Race#c.timew1w3					
AfrAm	.0326079	.1878812	0.17	0.862	-.3356551 .4008709
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.1808482	.7745194	-0.23	0.815	-1.698887 1.33719
PovStat#c.timew1w3					
Below	-.2869926	.1847377	-1.55	0.120	-.649072 .0750868
timew1w3	0 (omitted)				
w1edubr					
2	3.860432	1.516903	2.54	0.011	.8872222 6.833643
3	5.8908	1.658422	3.55	0.000	2.640044 9.141557
w1edubr#c.timew1w3					
2	-.4791665	.3748696	-1.28	0.201	-1.213966 .2556332
3	-.3630122	.4063863	-0.89	0.372	-1.159662 .4336377
timew1w3	0 (omitted)				
w1WRATtotalcent42	.94156	.0523478	17.99	0.000	.8389524 1.044168
c.timew1w3#c.w1WRATtotalcent42	-.0329826	.0139228	-2.37	0.018	-.0602767 -.0056884
timew1w3	0 (omitted)				
1.w1smoke	-.3515748	.8168011	-0.43	0.667	-1.953996 1.250846
w1smoke#c.timew1w3					
1	-.2852446	.1985899	-1.44	0.151	-.674474 .1039848
timew1w3	0 (omitted)				
1.w1currdrugs	-.0356115	1.048897	-0.03	0.973	-2.109923 2.0387
w1currdrugs#c.timew1w3					

	1	.0700363	.2512064	0.28	0.781	-.425116	.5651887
w1hei2010_total_scorecent43	timew1w3	0 (omitted)					
c.timew1w3#c.w1hei2010_total_scorecent43	- .0205171	.0360148	-0.57	0.571	-.0922016	.0511674	
w1BMIcon30	timew1w3	0 (omitted)					
c.timew1w3#c.w1BMIcon30	- .0239161	.0524294	-0.46	0.648	-.1266812	.078849	
w1SRH	timew1w3	0 (omitted)					
2	1.402682	.9949909	1.41	0.159	-.5474681	3.352832	
3	1.465461	1.072608	1.37	0.172	-.6368894	3.56781	
w1SRH#c.timew1w3							
2	- .0964003	.244349	-0.39	0.693	-.5753156	.382515	
3	- .161874	.2621879	-0.62	0.537	-.6757618	.3520138	
w1CEScent15	timew1w3	0 (omitted)					
c.timew1w3#c.w1CEScent15	- .0467066	.0345582	-1.35	0.177	-.1144417	.0210285	
w1dxHTN	timew1w3	0 (omitted)					
Yes	.4667161	.8272918	0.56	0.573	-1.154893	2.088325	
w1dxHTN#c.timew1w3							
Yes	- .0909425	.2039893	-0.45	0.656	-.4908175	.3089326	
w1dxDiabetes	timew1w3	0 (omitted)					
preDiabetes	.0882958	.9596282	0.09	0.927	-1.793551	1.970143	
Diabetes	-.1545648	1.185378	-0.13	0.896	-2.488883	2.179754	
w1dxDiabetes#c.timew1w3							
preDiabetes	.2647311	.2319957	1.14	0.254	-.1899755	.7194376	
Diabetes	-.399986	.2888057	-1.38	0.166	-.9666198	.1666478	
w1CVhighChol	timew1w3	0 (omitted)					
Yes	1.171271	.9127252	1.28	0.200	-.6209245	2.963466	
w1CVhighChol#c.timew1w3							
Yes	.1048185	.2319542	0.45	0.652	-.3509732	.5606102	
w1cvdbr	timew1w3	0 (omitted)					
1.w1cvdbr	-.4025695	1.07432	-0.37	0.708	-2.522481	1.717342	
w1cvdbr#c.timew1w3							
1	-.0209067	.2645984	-0.08	0.937	-.5423513	.5005379	
invmillsmms	timew1w3	0 (omitted)					
c.timew1w3#c.invmillsmms	.0428431	.0227517	1.88	0.060	-.0017495	.0874357	
c.timew1w3#c.invmillsmms	-.0100875	.0049909	-2.02	0.043	-.0198695	-.0003054	

timew1w3	0	(omitted)					
zw1w3HCYTRAJ	-.3878605	.5907601	-0.66	0.511	-1.545732	.770011	
c.timew1w3#c.zw1w3HCYTRAJ	.0831019	.1465728	0.57	0.571	-.2041764	.3703801	
Race#c.zw1w3HCYTRAJ							
AfrAm	.4007471	.7338999	0.55	0.585	-1.037672	1.839166	
Race#c.timew1w3#c.zw1w3HCYTRAJ							
AfrAm	-.0803728	.1784297	-0.45	0.652	-.4300888	.2693431	
_cons	72.80138	1.815472	40.10	0.000	69.24219	76.36056	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.4036509	.	.
sd(_cons)	8.295946	.	.
corr(timew1w3,_cons)	-.9999999	.	.
sd(Residual)	9.793802	.	.

813 .
 814 .
 815 .
 816 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.t
 > 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##Race ///
 > 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
DF adjustment: Large sample	Average RVI	= 0.0404
	Largest FMI	= 0.3841
	DF: min	= 33.04
	avg	= 360,741.17
	max	= 8740499.75
Model F test: Equal FMI	F(43,95090.8)	= 35.70
	Prob > F	= 0.0000

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.139964	.1781823	-6.40	0.000	-1.489201 -.7907263
w1Agecent48	-.1490812	.0204318	-7.30	0.000	-.1891286 -.1090337
c.timew1w3#c.w1Agecent48	-.0082931	.0044036	-1.88	0.060	-.0169242 .000338
timew1w3	0	(omitted)			
Race					
AfrAm	-2.289074	.3692755	-6.20	0.000	-3.013 -1.565149

Race#c.timew1w3						
AfrAm	.112374	.0799595	1.41	0.160	-.0444092	.2691572
timew1w3	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	.0293017	.3696029	0.08	0.937	-.6951196	.753723
PovStat#c.timew1w3						
Below	-.0222673	.0774059	-0.29	0.774	-.1739847	.1294502
timew1w3	0	(omitted)				
w1edubr						
2	-.4249693	.7131184	-0.60	0.551	-1.823486	.9735477
3	1.841187	.7775085	2.37	0.018	.3166866	3.365688
w1edubr#c.timew1w3						
2	.1127158	.147044	0.77	0.443	-.1755649	.4009964
3	-.0576683	.1620649	-0.36	0.722	-.3753771	.2600405
timew1w3	0	(omitted)				
w1WRATtotalcent42	.2270335	.0247022	9.19	0.000	.178617	.2754501
c.timew1w3#c.w1WRATtotalcent42						
timew1w3	0	(omitted)				
1.w1smoke	.0909998	.388672	0.23	0.815	-.6738184	.855818
w1smoke#c.timew1w3						
1	-.0382679	.0890194	-0.43	0.668	-.2136951	.1371593
timew1w3	0	(omitted)				
1.w1currdrugs	-.5787357	.4525964	-1.28	0.201	-1.466405	.3089338
w1currdrugs#c.timew1w3						
1	.0735384	.102548	0.72	0.474	-.1281606	.2752374
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	.028825	.018371	1.57	0.126	-.0085495	.0661994
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3	0	(omitted)				
w1BMIcontent30	.0288043	.024945	1.15	0.248	-.0200907	.0776993
c.timew1w3#c.w1BMIcontent30						
timew1w3	0	(omitted)				
w1SRH						
2	1.060764	.4733584	2.24	0.025	.1329201	1.988608
3	.8397605	.5103423	1.65	0.100	-.1606291	1.84015
w1SRH#c.timew1w3						
2	-.1458486	.1010446	-1.44	0.149	-.3438958	.0521986
3	-.1509721	.1081443	-1.40	0.163	-.3629322	.0609881
timew1w3	0	(omitted)				
w1CEScent15	-.0513119	.0162043	-3.17	0.002	-.0830719	-.0195519

c.timew1w3#c.w1CEScent15		- .0057283	.0034849	-1.64	0.100	-.0125587	.0011021
	timew1w3		0	(omitted)			
w1dxHTN							
Yes		.0964232	.3915011	0.25	0.805	-.6710941	.8639405
w1dxHTN#c.timew1w3							
Yes		-.025051	.0852679	-0.29	0.769	-.192183	.142081
	timew1w3		0	(omitted)			
w1dxDiabetes							
preDiabetes		-.7930294	.4484552	-1.77	0.077	-1.672125	.0860657
Diabetes		.4910848	.5420112	0.91	0.365	-.5723498	1.554519
w1dxDiabetes#c.timew1w3							
preDiabetes		.1067498	.0987291	1.08	0.280	-.0868119	.3003114
Diabetes		-.3066783	.1215844	-2.52	0.012	-.5453874	-.0679692
	timew1w3		0	(omitted)			
w1CVhighChol							
Yes		-.3250208	.4260916	-0.76	0.446	-1.161446	.5114047
w1CVhighChol#c.timew1w3							
Yes		.1695835	.0971447	1.75	0.081	-.0210362	.3602032
	timew1w3		0	(omitted)			
1.w1cvdbr		.6308115	.4671404	1.35	0.177	-.2851194	1.546742
w1cvdbr#c.timew1w3							
1		-.1379561	.1072405	-1.29	0.199	-.3485498	.0726376
	timew1w3		0	(omitted)			
invmillsmms		.0166119	.0104027	1.60	0.110	-.003777	.0370009
c.timew1w3#c.invmillsmms							
		-.0005651	.0020098	-0.28	0.779	-.0045043	.0033741
	timew1w3		0	(omitted)			
zw1w3HCYTRAJ		.381374	.2827074	1.35	0.177	-.1727236	.9354716
c.timew1w3#c.zw1w3HCYTRAJ							
		-.0739582	.0625816	-1.18	0.237	-.1966165	.0487002
Race#c.zw1w3HCYTRAJ							
AfrAm		-.1536849	.3524988	-0.44	0.663	-.84457	.5372002
Race#c.timew1w3#c.zw1w3HCYTRAJ							
AfrAm		.0163039	.0758139	0.22	0.830	-.1322889	.1648966
	_cons	24.91621	.8439951	29.52	0.000	23.26181	26.5706

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.4178866	.0886338	.275732	.6333295	
sd(_cons)	4.476316	.130939	4.226897	4.740453	
sd(Residual)	3.590752	.1335139	3.33836	3.862226	

```

817 .
818 .
819 .
820 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.t
> 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##Race ///
> 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 =	0.0644
	Largest FMI =	0.3389
DF adjustment: Large sample	DF: min =	42.11
	avg =	224,021.75
	max =	3132914.15
Model F test: Equal FMI	F(43, 38580.6) =	22.06
	Prob > F =	0.0000

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.4203616	.0864077	-4.86	0.000	-.5897182 -.251005
w1Agecent48		-.0786539	.0098429	-7.99	0.000	-.0979471 -.0593607
c.timew1w3#c.w1Agecent48		-.0045404	.0021639	-2.10	0.036	-.0087816 -.0002993
timew1w3		0	(omitted)			
Race						
AfrAm		-1.334443	.1765199	-7.56	0.000	-1.680482 -.9884033
Race#c.timew1w3						
AfrAm		.0252777	.0386596	0.65	0.513	-.0505056 .1010611
timew1w3		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		.0679563	.1776741	0.38	0.702	-.2802917 .4162042
PovStat#c.timew1w3						
Below		-.0252908	.0377464	-0.67	0.503	-.0992758 .0486941
timew1w3		0	(omitted)			
w1edubr						
2		-.14253	.344128	-0.41	0.679	-.817421 .5323609
3		.5560862	.3740639	1.49	0.137	-.1772789 1.289451
w1edubr#c.timew1w3						
2		-.0077481	.0707876	-0.11	0.913	-.1465173 .1310212
3		-.0019908	.077889	-0.03	0.980	-.1546606 .150679
timew1w3		0	(omitted)			
w1WRATtotalcent42		.0958774	.011949	8.02	0.000	.0724551 .1192998

c.timew1w3#c.w1WRATtotalcent42		- .0043756	.0025259	-1.73	0.083	-.0093262	.0005751
timew1w3 1.w1smoke		0	(omitted)				
w1smoke#c.timew1w3 1		.0213236	.2011081	0.11	0.916	-.3787992	.4214464
timew1w3 1.w1currdrugs		0	(omitted)				
w1currdrugs#c.timew1w3 1		-.281296	.2319747	-1.21	0.227	-.7390664	.1764744
timew1w3 w1hei2010_total_scorecent43		0	(omitted)				
c.timew1w3#c.w1hei2010_total_scorecent43		.0096673	.0087166	1.11	0.274	-.0079222	.0272568
timew1w3 w1BMIconcent30		0	(omitted)				
c.timew1w3#c.w1BMIconcent30		.0377562	.0119881	3.15	0.002	.0142576	.0612548
timew1w3 w1SRH 2 3		0	(omitted)				
w1SRH#c.timew1w3 2 3		.3278738	.2266559	1.45	0.148	-.1163779	.7721256
		.0791894	.2454654	0.32	0.747	-.4019829	.5603617
timew1w3 w1CEScent15 2 3		0	(omitted)				
c.timew1w3#c.w1CEScent15 2 3		.0165503	.0494749	0.33	0.738	-.0804192	.1135198
		.0510881	.0529948	0.96	0.335	-.05278	.1549563
timew1w3 w1CEScent15 2 3		0	(omitted)				
c.timew1w3#c.w1CEScent15 2 3		-.0238821	.0078237	-3.05	0.002	-.0392164	-.0085478
timew1w3 w1dxHTN Yes		0	(omitted)				
w1dxHTN#c.timew1w3 Yes		.0003386	.0017185	0.20	0.844	-.0030302	.0037075
timew1w3 w1dxHTN Yes		0	(omitted)				
w1dxHTN#c.timew1w3 Yes		.0155467	.1880847	0.08	0.934	-.3532004	.3842938
timew1w3 w1dxDiabetes preDiabetes Diabetes		0	(omitted)				
w1dxDiabetes preDiabetes Diabetes		-.4055834	.2164865	-1.87	0.061	-.8301459	.0189791
		-.2839022	.2695501	-1.05	0.293	-.814394	.2465895
timew1w3 w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		0	(omitted)				
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes		.0532483	.0475129	1.12	0.262	-.0398882	.1463848
		-.0193232	.0586997	-0.33	0.742	-.1345238	.0958775
timew1w3 w1CVhighChol Yes		0	(omitted)				
w1CVhighChol#c.timew1w3 Yes		-.1112682	.2126483	-0.52	0.601	-.5301134	.307577

	Yes	.0624024	.0481792	1.30	0.196	-.0322934	.1570983
	timew1w3 1.w1cvdbr	0 .3436164	(omitted) .2341357	1.47	0.143	-.1165222	.803755
	w1cvdbr#c.timew1w3 1	-.0465409	.0517381	-0.90	0.368	-.1480127	.0549308
	timew1w3 invmillsmms	0 .0076122	(omitted) .0049366	1.54	0.123	-.0020634	.0172878
	c.timew1w3#c.invmillsmms	-.0005092	.0009476	-0.54	0.591	-.0023664	.001348
	timew1w3 zw1w3HCYTRAJ	0 .3559773	(omitted) .1356623	2.62	0.009	.0900831	.6218714
	c.timew1w3#c.zw1w3HCYTRAJ	-.0408083	.0310689	-1.31	0.189	-.1017025	.0200859
	Race#c.zw1w3HCYTRAJ AfrAm	-.1820663	.1700775	-1.07	0.284	-.5154122	.1512796
	Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm	.0031622	.0374303	0.08	0.933	-.0701998	.0765242
	_cons	7.925218	.4099789	19.33	0.000	7.121412	8.729024

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1044107	.0778962	.0241913	.4506407
sd(_cons)	2.033985	.0639299	1.912465	2.163227
sd(Residual)	1.788008	.0620397	1.670454	1.913834

821 .
 822 .
 823 .
 824 . mi estimate: mixed BVRTot c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovStat c.t
 > 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##Race ///
 > if sample4dobs==1 || HNDID: timew1w3, cov(un)

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
DF adjustment: Large sample	Average RVI = 0.0360
	Largest FMI = 0.2902
	DF: min = 56.72
	avg = 740,232.70
	max = 1.04e+07
Model F test: Equal FMI	F(43,113203.2) = 21.00
	Prob > F = 0.0000

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	.5224412	.1297686	4.03	0.000	.2680821 .7768002
w1Agecent48		.1118279	.0144739	7.73	0.000	.0834593 .1401965
c.timew1w3#c.w1Agecent48		.0101397	.0030672	3.31	0.001	.0041281 .0161512
	timew1w3	0	(omitted)			
Race						
AfrAm		.621678	.258356	2.41	0.016	.1153073 1.128049
Race#c.timew1w3						
AfrAm		.1520915	.0548504	2.77	0.006	.044586 .259597
	timew1w3	0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		.1349215	.2647552	0.51	0.610	-.3839895 .6538325
PovStat#c.timew1w3						
Below		.0538621	.0550834	0.98	0.328	-.0540995 .1618237
	timew1w3	0	(omitted)			
w1edubr						
2		-.5820211	.5195163	-1.12	0.263	-1.600521 .4364784
3		-1.365415	.5709024	-2.39	0.017	-2.484947 -.2458831
w1edubr#c.timew1w3						
2		-.1661766	.1073161	-1.55	0.122	-.3765167 .0441636
3		-.1436918	.1171218	-1.23	0.220	-.3732472 .0858635
	timew1w3	0	(omitted)			
w1WRATtotalcent42		-.1487036	.0179672	-8.28	0.000	-.1839329 -.1134742
c.timew1w3#c.w1WRATtotalcent42		-.0039725	.0037218	-1.07	0.286	-.0112672 .0033222
	timew1w3	0	(omitted)			
1.w1smoke		.2761344	.2792016	0.99	0.323	-.2724901 .8247589
w1smoke#c.timew1w3						
1		-.0446979	.0596617	-0.75	0.454	-.1616464 .0722506
	timew1w3	0	(omitted)			
1.w1currdrugs		-.5370848	.3768792	-1.43	0.160	-1.291854 .2176844
w1currdrugs#c.timew1w3						
1		.1232086	.0735391	1.68	0.094	-.0212842 .2677013
	timew1w3	0	(omitted)			
w1hei2010_total_scorecent43		-.0008116	.01147	-0.07	0.944	-.0235402 .0219169
c.timew1w3#c.w1hei2010_total_scorecent43		-.0037447	.0026974	-1.39	0.168	-.0090879 .0015985
	timew1w3	0	(omitted)			
w1BMIcon30		-.0000684	.017801	-0.00	0.997	-.0349581 .0348213
c.timew1w3#c.w1BMIcon30		-.0041181	.0037664	-1.09	0.274	-.0115002 .003264
	timew1w3	0	(omitted)			

w1SRH						
2	-.7547506	.3412924	-2.21	0.027	-1.423673	-.0858278
3	-.7798629	.3676502	-2.12	0.034	-1.500446	-.0592798
w1SRH#c.timew1w3						
2	-.0639162	.0721849	-0.89	0.376	-.2053962	.0775637
3	-.0172772	.0779102	-0.22	0.825	-.1699842	.1354298
timew1w3	0	(omitted)				
w1CEScent15	.0508521	.0119891	4.24	0.000	.0273477	.0743564
c.timew1w3#c.w1CEScent15	-.0006552	.0025321	-0.26	0.796	-.0056186	.0043083
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.3852432	.2861582	1.35	0.179	-.1765497	.947036
w1dxHTN#c.timew1w3						
Yes	-.040645	.060101	-0.68	0.499	-.1584424	.0771524
timew1w3	0	(omitted)				
w1dxDiabetes						
preDiabetes	.1670239	.3276735	0.51	0.610	-.4759507	.8099985
Diabetes	.1853591	.3906279	0.47	0.635	-.5820513	.9527695
w1dxDiabetes#c.timew1w3						
preDiabetes	-.0285542	.0689254	-0.41	0.679	-.1636458	.1065373
Diabetes	.0259126	.0822306	0.32	0.753	-.1352593	.1870845
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.0398552	.3111634	-0.13	0.898	-.6522283	.572518
w1CVhighChol#c.timew1w3						
Yes	-.007226	.0672161	-0.11	0.914	-.1390434	.1245915
timew1w3	0	(omitted)				
1.w1cvdbr	.5134529	.3390121	1.51	0.130	-.1513488	1.178255
w1cvdbr#c.timew1w3						
1	-.1625425	.0749471	-2.17	0.030	-.3095069	-.0155782
timew1w3	0	(omitted)				
invmillsmms	-.0182812	.0078058	-2.34	0.019	-.0335803	-.0029821
c.timew1w3#c.invmillsmms	.0000854	.0015438	0.06	0.956	-.0029404	.0031113
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.0333649	.2015164	-0.17	0.868	-.4283302	.3616005
c.timew1w3#c.zw1w3HCYTRAJ	.046164	.0428787	1.08	0.282	-.0378767	.1302048
Race#c.zw1w3HCYTRAJ						
AfrAm	-.2385859	.2500797	-0.95	0.340	-.7287332	.2515614
Race#c.timew1w3#c.zw1w3HCYTRAJ						
AfrAm	.0265424	.0524577	0.51	0.613	-.076273	.1293579
_cons	7.29485	.6189955	11.78	0.000	6.081357	8.508342

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.6580872	.0606416	.5493362	.7883676
sd(_cons)	3.911426	.1378656	3.650318	4.191211
corr(timew1w3,_cons)	-.4765139	.0340938	-.5405397	-.4070005
sd(Residual)	1.962153	.2020669	1.603492	2.401039

825 .
 826 .
 827 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Race 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##Race ///
 > if sample4eobs==1 || HNDID: timew1w3, cov(un)

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
DF adjustment: Large sample	Average RVI	= 0.0361
	Largest FMI	= 0.2863
	DF: min	= 58.18
	avg	= 1008584.19
	max	= 1.80e+07
Model F test: Equal FMI	F(43, 110791.1)	= 9.90
	Prob > F	= 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0342817	.0655925	-0.52	0.601	-.1628435 .09428
w1Agecent48	-.0143669	.0068884	-2.09	0.037	-.0278685 -.0008653
c.timew1w3#c.w1Agecent48	-.0028018	.0015603	-1.80	0.073	-.00586 .0002564
timew1w3	0 (omitted)				
Race					
AfrAm	-.7230427	.1232931	-5.86	0.000	-.9646968 -.4813885
Race#c.timew1w3					
AfrAm	.0478245	.0278105	1.72	0.085	-.0066831 .102332
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.0145511	.1258834	-0.12	0.908	-.2612784 .2321762
PovStat#c.timew1w3					
Below	-.0456501	.0279665	-1.63	0.103	-.1004641 .0091639
timew1w3	0 (omitted)				

w1edubr						
2	.3978084	.2468514	1.61	0.107	-.086052	.8816688
3	.5087144	.2689865	1.89	0.059	-.0185654	1.035994
w1edubr#c.timew1w3						
2	-.0067124	.0549785	-0.12	0.903	-.1144831	.1010583
3	-.0300509	.0596139	-0.50	0.614	-.1468992	.0867974
timew1w3	0 (omitted)					
w1WRATtotalcent42	.0729383	.0084514	8.63	0.000	.0563737	.0895029
c.timew1w3#c.w1WRATtotalcent42	.003186	.0019188	1.66	0.097	-.0005749	.0069468
timew1w3	0 (omitted)					
1.w1smoke	-.1500208	.1389557	-1.08	0.282	-.4246152	.1245737
w1smoke#c.timew1w3						
1	-.0187835	.0304235	-0.62	0.537	-.0784399	.040873
timew1w3	0 (omitted)					
1.w1currdrugs	.3049314	.1546589	1.97	0.049	.0016996	.6081633
w1currdrugs#c.timew1w3						
1	-.0285135	.0355377	-0.80	0.422	-.0981802	.0411532
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43	-.0045126	.0054305	-0.83	0.407	-.0152191	.0061938
c.timew1w3#c.w1hei2010_total_scorecent43	.0002361	.0012385	0.19	0.849	-.0021918	.0026639
timew1w3	0 (omitted)					
w1BMIcon30	-.0148538	.0085164	-1.74	0.081	-.0315465	.0018389
c.timew1w3#c.w1BMIcon30	.0004831	.0018988	0.25	0.799	-.0032385	.0042046
timew1w3	0 (omitted)					
w1SRH						
2	.4285494	.1621832	2.64	0.008	.1106658	.7464329
3	.3262016	.1747535	1.87	0.062	-.0163319	.6687351
w1SRH#c.timew1w3						
2	-.0292941	.0368123	-0.80	0.426	-.1014453	.042857
3	-.0035843	.0396574	-0.09	0.928	-.0813172	.0741487
timew1w3	0 (omitted)					
w1CEScent15	-.0055255	.0055951	-0.99	0.323	-.0164922	.0054412
c.timew1w3#c.w1CEScent15	-.0004504	.0012567	-0.36	0.720	-.0029135	.0020128
timew1w3	0 (omitted)					
w1dxHTN						
Yes	.0415068	.1363	0.30	0.761	-.225829	.3088425
w1dxHTN#c.timew1w3						
Yes	-.0383674	.0308152	-1.25	0.213	-.0987687	.022034
timew1w3	0 (omitted)					
w1dxDiabetes						
preDiabetes	-.2802422	.1515288	-1.85	0.064	-.5772341	.0167497

	Diabetes	- .3487226	.1906692	-1.83	0.068	-.7237666	.0263214
w1dxDiabetes#c.timew1w3	preDiabetes	.0687303	.0350832	1.96	0.050	-.0000317	.1374924
	Diabetes	-.0231009	.0418106	-0.55	0.581	-.1050595	.0588576
	timew1w3	0	(omitted)				
w1CVhighChol	Yes	.1492225	.1558383	0.96	0.340	-.1593081	.457753
w1CVhighChol#c.timew1w3	Yes	.0249542	.0344604	0.72	0.469	-.0426449	.0925533
	timew1w3	0	(omitted)				
1.w1cvdbr		.0371444	.1850745	0.20	0.842	-.3332986	.4075875
w1cvdbr#c.timew1w3	1	.0226797	.0405074	0.56	0.576	-.0573824	.1027418
	timew1w3	0	(omitted)				
invmillsmms		.0020401	.0035422	0.58	0.565	-.0049025	.0089828
c.timew1w3#c.invmillsmms		-.0007298	.0007307	-1.00	0.318	-.0021619	.0007023
	timew1w3	0	(omitted)				
zw1w3HCYTRAJ		-.1315212	.0941939	-1.40	0.163	-.3161379	.0530955
c.timew1w3#c.zw1w3HCYTRAJ		-.0126543	.0213785	-0.59	0.554	-.0545555	.0292468
Race#c.zw1w3HCYTRAJ	AfrAm	.1610785	.1184611	1.36	0.174	-.0711013	.3932583
Race#c.timew1w3#c.zw1w3HCYTRAJ	AfrAm	-.0085892	.0266126	-0.32	0.747	-.060749	.0435706
	_cons	6.454622	.2916006	22.14	0.000	5.883086	7.026157

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.1188023	.0981073	.023545	.5994475	
sd(_cons)	1.40674	.1092582	1.208101	1.638041	
corr(timew1w3,_cons)	-.0800007	.2937578	-.5781215	.4615607	
sd(Residual)	1.352096	.0988248	1.171637	1.56035	

```
829 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Race 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##Race ///
> if sample4fobs==1 || HNDID: timew1w3, cov(un)
```

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 = 0.0568
Largest FMI = 0.3385

DF adjustment: Large sample

DF: min = 42.20
avg = 3075826.92
max = 1.29e+08

Model F test: Equal FMI

F(43,46599.4) = 8.48
Prob > F = 0.0000

	FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		- .0186522	.1323826	-0.14	0.888	-.2782017 .2408972
w1Agecent48		- .0954265	.0165428	-5.77	0.000	-.1278612 -.0629919
c.timew1w3##c.w1Agecent48		- .0021865	.0031498	-0.69	0.488	-.00836 .0039871
timew1w3		0	(omitted)			
Race						
AfrAm		-1.443133	.2940064	-4.91	0.000	-2.019418 -.8668479
Race##c.timew1w3						
AfrAm		-.0159508	.0565287	-0.28	0.778	-.1267497 .0948482
timew1w3		0	(omitted)			
timew1w3		0	(omitted)			
PovStat						
Below		-.5637916	.2999634	-1.88	0.060	-1.151725 .0241421
PovStat##c.timew1w3						
Below		.0185171	.0563527	0.33	0.742	-.0919339 .128968
timew1w3		0	(omitted)			
w1edubr						
2		-.3868617	.5826078	-0.66	0.507	-1.528859 .7551359
3		.7980806	.6343191	1.26	0.208	-.4452507 2.041412
w1edubr##c.timew1w3						
2		.0916464	.110906	0.83	0.409	-.1259034 .3091961
3		.0664728	.1221951	0.54	0.587	-.1732648 .3062105
timew1w3		0	(omitted)			
w1WRATtotalcent42		.1538424	.0198246	7.76	0.000	.1149862 .1926987
c.timew1w3##c.w1WRATtotalcent42		.0028309	.0037965	0.75	0.456	-.0046105 .0102723
timew1w3		0	(omitted)			

	1.w1smoke	- .4104439	.3355058	-1.22	0.225	-1.079612	.2587242
	w1smoke#c.timew1w3						
	1	.0228393	.063115	0.36	0.718	-.1011429	.1468215
	timew1w3						
	1.w1currdrugs						
	w1currdrugs#c.timew1w3						
	1	-.0285347	.0722813	-0.39	0.693	-.1702721	.1132027
	timew1w3						
	w1hei2010_total_scorecent43						
		0	(omitted)				
		.0208674	.0135725	1.54	0.132	-.0065193	.0482541
	c.timew1w3#c.w1hei2010_total_scorecent43						
		-.0028642	.0025608	-1.12	0.264	-.0078871	.0021588
	timew1w3						
	w1BMIcontent30						
		0	(omitted)				
		.0015738	.0205132	0.08	0.939	-.0386671	.0418146
	c.timew1w3#c.w1BMIcontent30						
		.0013274	.0038323	0.35	0.729	-.0061842	.0088389
	timew1w3						
	w1SRH						
	2	-.035876	.3835958	-0.09	0.925	-.7877324	.7159804
	3	.198909	.4128403	0.48	0.630	-.6102818	1.0081
	w1SRH#c.timew1w3						
	2	.0245178	.0737199	0.33	0.739	-.1199726	.1690082
	3	-.0419	.0787888	-0.53	0.595	-.196324	.112524
	timew1w3						
	w1CEScent15						
		0	(omitted)				
		-.0425687	.0132851	-3.20	0.001	-.0686098	-.0165276
	c.timew1w3#c.w1CEScent15						
		.0021902	.0025316	0.87	0.387	-.0027717	.0071521
	timew1w3						
	w1dxHTN						
	Yes						
		.3887295	.3229092	1.20	0.229	-.2453487	1.022808
	w1dxHTN#c.timew1w3						
	Yes						
		-.0564292	.0626398	-0.90	0.368	-.179265	.0664065
	timew1w3						
	w1dxDiabetes						
	preDiabetes						
	Diabetes						
		.0793946	.3623347	0.22	0.827	-.6309603	.7897494
		.0534152	.4209367	0.13	0.899	-.7716516	.878482
	w1dxDiabetes#c.timew1w3						
	preDiabetes						
	Diabetes						
		.0195708	.071685	0.27	0.785	-.1209693	.1601109
		.0789019	.0859037	0.92	0.359	-.0896193	.2474231
	timew1w3						
	w1CVhighChol						
	Yes						
		.1628344	.3702351	0.44	0.661	-.5756679	.9013368
	w1CVhighChol#c.timew1w3						
	Yes						
		.0450244	.0739287	0.61	0.543	-.1009397	.1909885
	timew1w3						
		0	(omitted)				

	1.w1cvdbr	.1768116	.3750049	0.47	0.637	-.5589347	.9125579
	w1cvdbr#c.timew1w3						
1		-.0330308	.0765515	-0.43	0.666	-.1831805	.1171189
	timew1w3	0	(omitted)				
	invmillsmms	.0104909	.0089663	1.17	0.242	-.0070828	.0280647
	c.timew1w3#c.invmillsmms						
		-.0014657	.0015862	-0.92	0.355	-.0045746	.0016432
	timew1w3	0	(omitted)				
	zw1w3HCYTRAJ	-.1817454	.2295535	-0.79	0.429	-.6316624	.2681716
	c.timew1w3#c.zw1w3HCYTRAJ						
		-.018329	.0457467	-0.40	0.689	-.107991	.0713329
	Race#c.zw1w3HCYTRAJ						
	AfrAm	.3556856	.2835652	1.25	0.210	-.200092	.9114633
	Race#c.timew1w3#c.zw1w3HCYTRAJ						
	AfrAm	-.0270455	.0547414	-0.49	0.621	-.1343368	.0802458
	_cons	19.57849	.6921565	28.29	0.000	18.22172	20.93526

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Unstructured			
sd(timew1w3)	.2612596	.1728761	.0714202 .9557046
sd(_cons)	4.000489	.1677959	3.684769 4.34326
corr(timew1w3,_cons)	-.161901	.1415472	-.4204463 .1209624
sd(Residual)	2.912341	.1739848	2.590537 3.274121

830 .
831 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovSt
> 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##Race ///
> if sample4gobs==1 || HNDID: timew1w3, cov(un)

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

DF adjustment: Large sample

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

Model F test: Equal FMI

F(43,34539.2)	=	11.41
Prob > F	=	0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0040977	.0517965	-0.08	0.937	-.105618 .0974227
w1Agecent48	-.0066059	.0063041	-1.05	0.295	-.0189632 .0057514
c.timew1w3#c.w1Agecent48	-.0036913	.0012509	-2.95	0.003	-.0061431 -.0012395
timew1w3	0	(omitted)			
Race					
AfrAm	-.2962301	.1132354	-2.62	0.009	-.5182455 -.0742147
Race#c.timew1w3					
AfrAm	-.0120707	.022108	-0.55	0.585	-.0554017 .0312603
timew1w3	0	(omitted)			
timew1w3	0	(omitted)			
PovStat					
Below	-.1178112	.1144531	-1.03	0.303	-.3421429 .1065205
PovStat#c.timew1w3					
Below	-.0164076	.0221769	-0.74	0.459	-.0598741 .0270589
timew1w3	0	(omitted)			
w1edubr					
2	-.095959	.2232757	-0.43	0.667	-.5335804 .3416623
3	.1835277	.2434503	0.75	0.451	-.2936533 .6607087
w1edubr#c.timew1w3					
2	-.0009413	.0426417	-0.02	0.982	-.0845178 .0826352
3	-.0208053	.0468665	-0.44	0.657	-.1126643 .0710537
timew1w3	0	(omitted)			
w1WRATtotalcent42	.1116801	.0076661	14.57	0.000	.0966527 .1267075
c.timew1w3#c.w1WRATtotalcent42	.0001459	.0014998	0.10	0.923	-.0027938 .0030856
timew1w3	0	(omitted)			
1.w1smoke	.182938	.1287922	1.42	0.160	-.0739957 .4398717
w1smoke#c.timew1w3					
1	-.0130108	.0249336	-0.52	0.602	-.0619901 .0359686
timew1w3	0	(omitted)			
1.w1currdrugs	.3936889	.1763815	2.23	0.035	.0295303 .7578474
w1currdrugs#c.timew1w3					
1	-.0096287	.0300271	-0.32	0.749	-.0687326 .0494752
timew1w3	0	(omitted)			
w1hei2010_total_scorecent43	.0003817	.0047862	0.08	0.937	-.0090757 .0098392
c.timew1w3#c.w1hei2010_total_scorecent43	.0003254	.0010794	0.30	0.763	-.0018079 .0024587
timew1w3	0	(omitted)			
w1BMIcon30	-.0103466	.0079172	-1.31	0.192	-.0258845 .0051913
c.timew1w3#c.w1BMIcon30	-.0013137	.0015293	-0.86	0.390	-.0043116 .0016842
timew1w3	0	(omitted)			

w1SRH						
2	- .0272927	.1469653	-0.19	0.853	-.3153418	.2607564
3	.0304449	.1589632	0.19	0.848	-.2811651	.3420549
w1SRH#c.timew1w3						
2	.0260479	.0293441	0.89	0.375	-.0314655	.0835613
3	.0174012	.0316012	0.55	0.582	-.0445401	.0793425
timew1w3						
w1CEScent15		0 (omitted)				
	-.0045146	.0050921	-0.89	0.375	-.0144959	.0054667
c.timew1w3#c.w1CEScent15						
	.0002072	.0010153	0.20	0.838	-.0017831	.0021975
timew1w3		0 (omitted)				
w1dxHTN						
Yes	.0488628	.1211993	0.40	0.687	-.1887189	.2864445
w1dxHTN#c.timew1w3						
Yes	.0012376	.0248865	0.05	0.960	-.0475616	.0500367
timew1w3		0 (omitted)				
w1dxDiabetes						
preDiabetes	-.1102406	.1390005	-0.79	0.428	-.3827456	.1622643
Diabetes	-.1240984	.1693139	-0.73	0.464	-.4566743	.2084775
w1dxDiabetes#c.timew1w3						
preDiabetes	.0290025	.0279739	1.04	0.300	-.0258274	.0838325
Diabetes	.0089746	.0348236	0.26	0.797	-.0593833	.0773325
timew1w3		0 (omitted)				
w1CVhighChol						
Yes	-.0651329	.1363639	-0.48	0.634	-.334828	.2045623
w1CVhighChol#c.timew1w3						
Yes	.0074945	.0282306	0.27	0.791	-.048001	.06299
timew1w3		0 (omitted)				
1.w1cvdbr	-.1364027	.1451731	-0.94	0.348	-.4212656	.1484602
w1cvdbr#c.timew1w3						
1	.0009012	.0299962	0.03	0.976	-.0579013	.0597036
timew1w3		0 (omitted)				
invmillsmms	.0057952	.0034183	1.70	0.090	-.0009046	.012495
c.timew1w3#c.invmillsmms						
	-.0005319	.0006173	-0.86	0.389	-.0017417	.000678
timew1w3		0 (omitted)				
zw1w3HCYTRAJ	-.1094948	.0864377	-1.27	0.205	-.2789096	.0599201
c.timew1w3#c.zw1w3HCYTRAJ						
	-.006138	.0176725	-0.35	0.728	-.0407756	.0284997
Race#c.zw1w3HCYTRAJ						
AfrAm	.1708451	.1075371	1.59	0.112	-.0399238	.381614
Race#c.timew1w3#c.zw1w3HCYTRAJ						
AfrAm	-.0173215	.0213439	-0.81	0.417	-.059155	.024512
_cons	7.334999	.26771	27.40	0.000	6.810138	7.85986

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0171652
sd(_cons)	1.47574
corr(timew1w3,_cons)	.9999967
sd(Residual)	1.190722

832 .
 833 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovSt
 > 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##Race ///
 > if sample4hobs==1 || HNDID: timew1w3, cov(un)

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(43, 27187.6) =	16.05
	Prob > F =	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0394767	.0543481	-0.73	0.468	-.1460288 .0670754
w1Agecent48	-.0151254	.0061503	-2.46	0.014	-.0271824 -.0030684
c.timew1w3##c.w1Agecent48	-.0016155	.0012909	-1.25	0.211	-.0041457 .0009146
timew1w3	0 (omitted)				
Race					
AfrAm	-.5591713	.1080381	-5.18	0.000	-.7709229 -.3474198
Race##c.timew1w3					
AfrAm	-.0231514	.0229213	-1.01	0.312	-.0680768 .0217739
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	-.0895046	.1112095	-0.80	0.421	-.3074843 .1284751
PovStat##c.timew1w3					
Below	-.0002356	.0229841	-0.01	0.992	-.0452843 .044813
timew1w3	0 (omitted)				

w1edubr						
2	-.2116009	.2161106	-0.98	0.328	-.6351718	.2119701
3	.1261485	.2359036	0.53	0.593	-.3362214	.5885184
w1edubr#c.timew1w3						
2	.0605037	.0441618	1.37	0.171	-.0260521	.1470594
3	.0319401	.0484182	0.66	0.509	-.0629581	.1268382
timew1w3						
w1WRATtotalcent42		0 (omitted)				
	.1222131	.0074036	16.51	0.000	.1077022	.136724
c.timew1w3#c.w1WRATtotalcent42						
	-.0018165	.0015636	-1.16	0.245	-.0048813	.0012484
timew1w3						
1.w1smoke		0 (omitted)				
	-.0262283	.1267416	-0.21	0.837	-.2787929	.2263363
w1smoke#c.timew1w3						
1	.0042046	.0279893	0.15	0.881	-.0514888	.0598979
timew1w3						
1.w1currdrugs		0 (omitted)				
	.1262741	.1459443	0.87	0.388	-.1618802	.4144285
w1currdrugs#c.timew1w3						
1	.0183491	.0303714	0.60	0.546	-.0412832	.0779814
timew1w3						
w1hei2010_total_scorecent43		0 (omitted)				
	-.0006984	.005119	-0.14	0.892	-.0109693	.0095725
c.timew1w3#c.w1hei2010_total_scorecent43						
	.0011952	.0011918	1.00	0.320	-.0011937	.0035842
timew1w3						
w1BMIcon30		0 (omitted)				
	-.0021777	.0076247	-0.29	0.775	-.0171313	.0127759
c.timew1w3#c.w1BMIcon30						
	-.0025941	.0015914	-1.63	0.103	-.0057142	.0005259
timew1w3						
w1SRH		0 (omitted)				
2	.0013653	.1438972	0.01	0.992	-.2807112	.2834418
3	.1085883	.1585545	0.68	0.494	-.2026444	.419821
w1SRH#c.timew1w3						
2	-.0240385	.0303398	-0.79	0.428	-.0835046	.0354275
3	-.0270038	.0327522	-0.82	0.410	-.0912041	.0371965
timew1w3						
w1CEScent15		0 (omitted)				
	-.0038897	.0049134	-0.79	0.429	-.0135198	.0057405
c.timew1w3#c.w1CEScent15						
	-.0006427	.0010399	-0.62	0.537	-.0026808	.0013954
timew1w3						
w1dxHTN		0 (omitted)				
Yes	-.0556479	.1192889	-0.47	0.641	-.2895712	.1782755
w1dxHTN#c.timew1w3						
Yes	.0089562	.0255895	0.35	0.726	-.041208	.0591205
timew1w3						
w1dxDiabetes		0 (omitted)				
preDiabetes						
Diabetes	.210015	.1343453	1.56	0.118	-.0533099	.4733398
	-.1266995	.1728265	-0.73	0.465	-.4682299	.2148308

w1dxDiabetes#c.timew1w3						
preDiabetes	.0007467	.0289941	0.03	0.979	-.0560834	.0575768
Diabetes	-.0164955	.0356348	-0.46	0.643	-.0863911	.0534001
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.0372995	.1290169	-0.29	0.773	-.2907974	.2161984
w1CVhighChol#c.timew1w3						
Yes	.0243017	.0305927	0.79	0.428	-.036199	.0848025
timew1w3	0	(omitted)				
1.w1cvdbr	-.0104287	.1935392	-0.05	0.958	-.4191185	.3982611
w1cvdbr#c.timew1w3						
1	.0297635	.0351071	0.85	0.399	-.0402503	.0997772
timew1w3	0	(omitted)				
invmillsmms	.0051255	.0033095	1.55	0.121	-.0013611	.011612
c.timew1w3#c.invmillsmms						
timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.0737881	.0834569	-0.88	0.377	-.2373606	.0897845
c.timew1w3#c.zw1w3HCYTRAJ						
Race#c.zw1w3HCYTRAJ	-.0117362	.0180678	-0.65	0.516	-.0471485	.023676
AfrAm	.0517122	.1040632	0.50	0.619	-.152248	.2556725
Race#c.timew1w3#c.zw1w3HCYTRAJ						
AfrAm	.0162516	.0219475	0.74	0.459	-.0267647	.0592679
_cons	5.928434	.2630717	22.54	0.000	5.412368	6.444499

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Unstructured					
sd(timew1w3)	.0048209
sd(_cons)	1.35354
corr(timew1w3,_cons)	-.9998781
sd(Residual)	1.23551

834 .

```
835 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##PovS
> 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##Race ///
> if sample4iobs==1 || HNDID: timew1w3, cov(un)
```

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 =	0.0492
	Largest FMI =	0.2658
DF adjustment:	Large sample	DF: min = 67.04
		avg = 1604453.23
		max = 3.81e+07
Model F test:	Equal FMI	F(43, 61273.1) = 5.57
		Prob > F = 0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0556295	.0418729	-1.33	0.184	-.1377241 .026465
w1Agecent48	-.0040694	.0037697	-1.08	0.280	-.011458 .0033191
c.timew1w3#c.w1Agecent48	-.0012727	.000994	-1.28	0.200	-.0032209 .0006756
timew1w3	0 (omitted)				
Race					
AfrAm	-.3442286	.0670243	-5.14	0.000	-.4755939 -.2128634
Race#c.timew1w3					
AfrAm	.0226685	.0176271	1.29	0.198	-.0118803 .0572174
timew1w3	0 (omitted)				
timew1w3	0 (omitted)				
PovStat					
Below	.078027	.068926	1.13	0.258	-.0570659 .2131199
PovStat#c.timew1w3					
Below	-.0047546	.0176599	-0.27	0.788	-.0393675 .0298583
timew1w3	0 (omitted)				
w1edubr					
2	-.0264732	.1370904	-0.19	0.847	-.2952398 .2422935
3	.1623085	.1492761	1.09	0.277	-.1303341 .4549511
w1edubr#c.timew1w3					
2	.0442707	.0345887	1.28	0.201	-.0235304 .1120719
3	.0548787	.0379364	1.45	0.148	-.0194852 .1292425
timew1w3	0 (omitted)				
w1WRATtotalcent42	.027079	.004635	5.84	0.000	.0179935 .0361644
c.timew1w3#c.w1WRATtotalcent42	-.0010228	.001208	-0.85	0.397	-.0033913 .0013457
timew1w3	0 (omitted)				
1.w1smoke	-.0259349	.0752207	-0.34	0.730	-.1738884 .1220187
w1smoke#c.timew1w3					
1	.0107103	.0199453	0.54	0.592	-.0285122 .0499328
timew1w3	0 (omitted)				
1.w1currdrugs	.3348322	.0942014	3.55	0.001	.14841 .5212543
w1currdrugs#c.timew1w3					

	1		- .0596341	.0225975	-2.64	0.008	-.1039358	-.0153324
		timew1w3	0	(omitted)				
w1hei2010_total_scorecent43			.0022228	.0030136	0.74	0.461	-.0037052	.0081507
c.timew1w3#c.w1hei2010_total_scorecent43			.0004808	.0008364	0.57	0.566	-.0011678	.0021295
		timew1w3	0	(omitted)				
w1BMIcon30			-.0057714	.0046822	-1.23	0.218	-.0149495	.0034067
c.timew1w3#c.w1BMIcon30			.001014	.0012038	0.84	0.400	-.0013455	.0033735
		timew1w3	0	(omitted)				
		w1SRH						
	2		.1361806	.0887429	1.53	0.125	-.0377546	.3101158
	3		-.0294219	.0954998	-0.31	0.758	-.2166017	.157758
		w1SRH#c.timew1w3						
	2		.0067979	.02325	0.29	0.770	-.0387714	.0523671
	3		.0188758	.0249058	0.76	0.449	-.0299398	.0676913
		timew1w3	0	(omitted)				
		w1CEScent15						
			-.0080145	.0030795	-2.60	0.009	-.0140505	-.0019786
c.timew1w3#c.w1CEScent15			.0007212	.0008033	0.90	0.369	-.0008533	.0022958
		timew1w3	0	(omitted)				
		w1dxHTN						
	Yes		.0676679	.0755736	0.90	0.371	-.0806281	.2159639
		w1dxHTN#c.timew1w3						
	Yes		-.0380725	.0196166	-1.94	0.052	-.07653	.000385
		timew1w3	0	(omitted)				
		w1dxDiabetes						
	preDiabetes		-.0423451	.0848189	-0.50	0.618	-.2086376	.1239475
	Diabetes		.0609969	.1106054	0.55	0.583	-.1585624	.2805561
		w1dxDiabetes#c.timew1w3						
	preDiabetes		.0196301	.0222863	0.88	0.378	-.0240549	.063315
	Diabetes		-.0446182	.0275944	-1.62	0.106	-.0988068	.0095705
		timew1w3	0	(omitted)				
		w1CVhighChol						
	Yes		-.0510181	.0899664	-0.57	0.573	-.2305898	.1285537
		w1CVhighChol#c.timew1w3						
	Yes		.0067287	.0223733	0.30	0.764	-.0372536	.0507109
		timew1w3	0	(omitted)				
		1.w1cvdbr						
			-.0902075	.0922987	-0.98	0.329	-.2715066	.0910915
		w1cvdbr#c.timew1w3						
	1		.0000146	.0257992	0.00	1.000	-.050996	.0510252
		timew1w3	0	(omitted)				
		invmillsmms						
			.0009887	.0020784	0.48	0.634	-.0030848	.0050623
c.timew1w3#c.invmillsmms			-.0002733	.0004979	-0.55	0.583	-.0012492	.0007027

timew1w3	0	(omitted)				
zw1w3HCYTRAJ	-.0654683	.0521852	-1.25	0.210	-.1677496	.0368129
c.timew1w3#c.zw1w3HCYTRAJ	.0008319	.013888	0.06	0.952	-.0263883	.0280522
Race#c.zw1w3HCYTRAJ						
AfrAm	.0542428	.0649473	0.84	0.404	-.0730516	.1815372
Race#c.timew1w3#c.zw1w3HCYTRAJ						
AfrAm	-.0095949	.0168641	-0.57	0.569	-.0426481	.0234583
_cons	8.811831	.1625525	54.21	0.000	8.493166	9.130496

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0553895	.066887	.0051944	.5906359
sd(_cons)	.636206	.07364	.5070749	.7982214
corr(timew1w3,_cons)	-.1269086	.3908581	-.7193062	.5723514
sd(Residual)	.9526848	.0454048	.8677231	1.045965

836 .
837 . mi estimate: mixed LnTrailsAtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##P
> 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##Race ///
> 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 = 0.0459
	Largest FMI = 0.3292
DF:	min = 44.52
	avg = 9176870.64
	max = 2.50e+08
Model F test: Equal FMI	F(43, 72221.3) = 10.98
	Prob > F = 0.0000

LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0092118	.011018	0.84	0.403	-.0123841
w1Agecent48	.011199	.0011631	9.63	0.000	.0089193
c.timew1w3#c.w1Agecent48	.0004168	.0002598	1.60	0.109	-.0000925
timew1w3	0	(omitted)			
Race					
AfrAm	.1633302	.0207427	7.87	0.000	.122675
Race#c.timew1w3					.2039853

	AfrAm	- .0011844	.0046179	-0.26	0.798	-.0102354	.0078666
	timew1w3	0	(omitted)				
	timew1w3	0	(omitted)				
	PovStat Below	.0408871	.0213342	1.92	0.055	-.0009273	.0827015
	PovStat#c.timew1w3 Below	.000246	.004633	0.05	0.958	-.0088345	.0093266
	timew1w3	0	(omitted)				
	w1edubr 2	-.0649802	.0427694	-1.52	0.129	-.1488432	.0188827
	3	-.0486931	.0466639	-1.04	0.297	-.1402114	.0428252
	w1edubr#c.timew1w3 2	-.0068311	.0091418	-0.75	0.455	-.0247517	.0110894
	3	-.0102318	.0100216	-1.02	0.307	-.0298777	.0094141
	timew1w3	0	(omitted)				
	w1WRATtotalcent42	-.0075296	.0014452	-5.21	0.000	-.0103621	-.0046972
	c.timew1w3#c.w1WRATtotalcent42	-.0004208	.0003187	-1.32	0.187	-.0010455	.000204
	timew1w3 1.w1smoke	0	(omitted)				
	w1smoke#c.timew1w3 1	-.0003902	.0233258	-0.02	0.987	-.0464176	.0456372
	timew1w3 1.w1currdrugs	0	(omitted)				
	w1currdrugs#c.timew1w3 1	.053728	.027365	1.96	0.050	-.0000961	.107552
	timew1w3 w1hei2010_total_scorecent43	0	(omitted)				
	- .000099	.0010114		-0.10	0.922	-.0021367	.0019386
	c.timew1w3#c.w1hei2010_total_scorecent43	.0001419	.0002204	0.64	0.520	-.0002919	.0005757
	timew1w3 w1BMICent30	0	(omitted)				
	.0008423	.0014585		0.58	0.564	-.0020176	.0037021
	c.timew1w3#c.w1BMICent30	-.0004677	.0003156	-1.48	0.138	-.0010863	.0001509
	timew1w3	0	(omitted)				
	w1SRH 2	-.0849487	.0275619	-3.08	0.002	-.1389691	-.0309284
	3	-.0562658	.0296425	-1.90	0.058	-.1143646	.0018329
	w1SRH#c.timew1w3 2	.0009836	.0061925	0.16	0.874	-.0111536	.0131207
	3	-.0027945	.0066176	-0.42	0.673	-.0157649	.0101759
	timew1w3 w1CEScent15	0	(omitted)				
	.0011047	.0009518		1.16	0.246	-.000761	.0029703
	c.timew1w3#c.w1CEScent15	.0003147	.0002109	1.49	0.136	-.0000986	.0007281

	timew1w3	0 (omitted)				
w1dxHTN	Yes	-.0107633	.0236295	-0.46	0.649	-.0572117
w1dxHTN#c.timew1w3	Yes	.0048994	.0051901	0.94	0.345	-.0052764
	timew1w3	0 (omitted)				
w1dxDiabetes	preDiabetes	.0338844	.0264908	1.28	0.201	-.0180774
	Diabetes	.0382263	.0337069	1.13	0.259	-.0285341
w1dxDiabetes#c.timew1w3	preDiabetes	.0031733	.005864	0.54	0.588	-.0083202
	Diabetes	-.0019919	.007045	-0.28	0.777	-.0157999
	timew1w3	0 (omitted)				
w1CVhighChol	Yes	-.0255128	.027768	-0.92	0.362	-.0811589
w1CVhighChol#c.timew1w3	Yes	.0063739	.0058953	1.08	0.280	-.0052103
	timew1w3	0 (omitted)				
1.w1cvdbr		.0090106	.0278923	0.32	0.747	-.045764
w1cvdbr#c.timew1w3	1	.0034104	.0066195	0.52	0.607	-.0096301
	timew1w3	0 (omitted)				
invmillsmms		.0003178	.0006302	0.50	0.614	-.0009174
c.timew1w3#c.invmillsmms		-.0001337	.0001283	-1.04	0.297	-.0003851
	timew1w3	0 (omitted)				
zw1w3HCYTRAJ		.0426185	.0159873	2.67	0.008	.011284
c.timew1w3#c.zw1w3HCYTRAJ		-.0028972	.0036006	-0.80	0.421	-.0099542
Race#c.zw1w3HCYTRAJ	AfrAm	-.0091508	.0200417	-0.46	0.648	-.0484317
Race#c.timew1w3#c.zw1w3HCYTRAJ	AfrAm	.0019856	.0044063	0.45	0.652	-.0066506
	_cons	3.449742	.0509888	67.66	0.000	3.349748
						3.549735

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0210966	.0064005	.0116403	.0382349	
sd(_cons)	.2549074	.007796	.2400764	.2706545	
sd(Residual)	.2381303	.0076737	.2235552	.2536555	

838 .

```
839 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Race c.timew1w3##Race c.timew1w3##P
> 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##Race ///
> if sample4kobs==1 || HNDID: timew1w3, cov(un)
```

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 = 0.0479
 Largest FMI = 0.2464
 DF adjustment: Large sample DF: min = 77.52
 avg = 861,680.17
 max = 2.14e+07

Model F test: Equal FMI F(43, 64964.8) = 19.73
 Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0098595	.0172308	0.57	0.567	.023938	.043657
w1Agecent48	.0155399	.0019005	8.18	0.000	.011815	.0192647
c.timew1w3#c.w1Agecent48	.000696	.0003906	1.78	0.075	-.0000695	.0014615
timew1w3	0	(omitted)				
Race						
AfrAm	.3344883	.0339076	9.86	0.000	.2680302	.4009463
Race#c.timew1w3						
AfrAm	-.0007119	.0069953	-0.10	0.919	-.0144225	.0129986
timew1w3	0	(omitted)				
timew1w3	0	(omitted)				
PovStat						
Below	.0949577	.0348796	2.72	0.006	.0265945	.1633208
PovStat#c.timew1w3						
Below	.0007003	.0070683	0.10	0.921	-.0131537	.0145542
timew1w3	0	(omitted)				
w1edubr						
2	-.1209472	.0688435	-1.76	0.079	-.2558817	.0139872
3	-.2085708	.07444311	-2.80	0.005	-.3544532	-.0626884
w1edubr#c.timew1w3						
2	-.0043351	.0141311	-0.31	0.759	-.0320366	.0233664
3	-.0046113	.0153127	-0.30	0.763	-.0346282	.0254056
timew1w3	0	(omitted)				
w1WRATtotalcent42	-.0246208	.0023853	-10.32	0.000	-.0292963	-.0199453
c.timew1w3#c.w1WRATtotalcent42	-.000115	.0005007	-0.23	0.818	-.0010964	.0008664

	timew1w3	0	(omitted)				
1.w1smoke		- .0083612	.0389016	-0.21	0.830	-.0855055	.0687831
w1smoke#c.timew1w3							
1		.0075117	.0082805	0.91	0.366	-.0088468	.0238702
timew1w3	0	(omitted)					
1.w1currdrugs		- .0228481	.0470079	-0.49	0.628	-.1161682	.070472
w1currdrugs#c.timew1w3							
1		- .0038646	.0096798	-0.40	0.690	-.0229669	.0152377
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43		.0007964	.0015102	0.53	0.599	-.0021975	.0037904
c.timew1w3#c.w1hei2010_total_scorecent43		- .0001307	.0003568	-0.37	0.715	-.0008411	.0005798
timew1w3	0	(omitted)					
w1BMIcon30		- .0015595	.0023416	-0.67	0.505	-.0061491	.00303
c.timew1w3#c.w1BMIcon30		- .0004805	.0004793	-1.00	0.316	-.0014199	.0004589
timew1w3	0	(omitted)					
w1SRH							
2		- .1339529	.0453623	-2.95	0.003	-.2228711	-.0450348
3		- .0715772	.0488888	-1.46	0.143	-.1674165	.0242621
w1SRH#c.timew1w3							
2		.0005648	.009494	0.06	0.953	-.0180445	.0191742
3		- .004372	.0102926	-0.42	0.671	-.0245518	.0158079
timew1w3	0	(omitted)					
w1CEScent15		.0067356	.0015929	4.23	0.000	.0036104	.0098608
c.timew1w3#c.w1CEScent15		- .0000859	.0003231	-0.27	0.790	-.0007192	.0005474
timew1w3	0	(omitted)					
w1dxHTN							
Yes		.0306597	.0373094	0.82	0.411	-.0425155	.1038348
w1dxHTN#c.timew1w3							
Yes		- .0036929	.0077095	-0.48	0.632	-.0188033	.0114176
timew1w3	0	(omitted)					
w1dxDiabetes							
preDiabetes		.0892997	.04249	2.10	0.036	.0059976	.1726018
Diabetes		.1103551	.0521105	2.12	0.035	.0078817	.2128285
w1dxDiabetes#c.timew1w3							
preDiabetes		- .0132261	.0088152	-1.50	0.134	-.0305038	.0040515
Diabetes		- .0005961	.0109367	-0.05	0.957	-.0220455	.0208534
timew1w3	0	(omitted)					
w1CVhighChol							
Yes		- .0074352	.0403624	-0.18	0.854	-.0867442	.0718738
w1CVhighChol#c.timew1w3							
Yes		- .0018883	.0084878	-0.22	0.824	-.018524	.0147475

	timew1w3 1.w1cvdbr	0 -.0671417	(omitted) .0443672	-1.51	0.130	-.1541481	.0198646
	w1cvdbr#c.timew1w3 1	.0162158	.0094081	1.72	0.085	-.0022283	.03466
	timew1w3 invmillsmms	0 -.0025733	(omitted) .0010282	-2.50	0.012	-.0045885	-.0005581
	c.timew1w3#c.invmillsmms	-.0002715	.0004674	-0.58	0.561	-.0011877	.0006446
	timew1w3 zw1w3HCYTRAJ	0 .0317368	(omitted) .0261499	1.21	0.225	-.0195161	.0829897
	c.timew1w3#c.zw1w3HCYTRAJ	-.0040564	.0054185	-0.75	0.454	-.0146764	.0065636
	Race#c.zw1w3HCYTRAJ AfrAm	-.0216827	.0328062	-0.66	0.509	-.0859817	.0426164
	Race#c.timew1w3#c.zw1w3HCYTRAJ AfrAm	.0153142	.0066473	2.30	0.021	.0022858	.0283426
	_cons	4.580149	.0827447	55.35	0.000	4.417921	4.742377

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3)	.0621847	.0127119	.0416543	.092834
sd(_cons)	.4846066	.0215527	.4441491	.5287495
corr(timew1w3,_cons)	-.4765031	.0461795	-.5618608	-.3811056
sd(Residual)	.2962027	.02811	.2459227	.3567626

```

840 .
841 .
842 . save, replace
     file finaldata_imputed_FINAL.dta saved
843 .
844 .
845 . capture log close

```