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name: <unnamed>
log: E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May_Baydoun_folder\HANDLS_PAPER65_HCY_COGN\OUTPUT\TABLES1
log type: smcl
opened on: 28 Nov 2023, 14:29:55

1 .
2 . use finaldata_imputed_FINAL,clear

3 .
4 .
5 . ****INTERACTION WITH FOLATE AND B12: BASELINE HCY*****
6 .
7 .
8 .
9 . *****TABLE S1: HOMOCYSTEINE AT BASELINE VS. COGNITIVE CHANGE OVER TIME: INTERACTION B
10 .
11 .
12 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
13 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression
Imputations      =      5
Number of obs    =  2,653

Group variable: HNDID
Number of groups =  1,430
Obs per group:
min =          1
avg =         1.9
max =          2
Average RVI     =  0.0099
Largest FMI     =  0.1298
DF: min = 263.29
        avg = 3.70e+09
        max = 6.96e+10
DF adjustment: Large sample
Model F test: Equal FMI
F( 17,415034.7) = 12.16
Prob > F       = 0.0000

```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0041854	.0206923	-0.20	0.840	-.0447415 .03637
w1Agecent48	-.0269811	.0057763	-4.67	0.000	-.0383025 -.01565
c.timew1w3#c.w1Agecent48	-.0027267	.0012166	-2.24	0.025	-.0051112 -.00034
timew1w3	0	(omitted)			
Sex					
Men	-.3318753	.1067221	-3.11	0.002	-.5410472 -.12276
Sex#c.timew1w3					
Men	.0182073	.0223791	0.81	0.416	-.025655 .06200
timew1w3	0	(omitted)			
Race					
AfrAm	-.7392681	.1020088	-7.25	0.000	-.9392017 -.53933
Race#c.timew1w3					
AfrAm	-.0015419	.0215964	-0.07	0.943	-.0438701 .04078

	timew1w3	0	(omitted)				
	PovStat Below	-.5231615	.1054515	-4.96	0.000	-.7298425	-.31648
	PovStat#c.timew1w3 Below	-.0242715	.0217028	-1.12	0.263	-.0668082	.01826
	timew1w3 invmillsmms	0	(omitted)	2.81	0.005	.0027913	.01571
	.0092528	.0032967					
	c.timew1w3#c.invmillsmms	-.0019025	.0006116	-3.11	0.002	-.0031012	-.00070
	timew1w3 w1HCYcenter2p15	0	(omitted)	-1.66	0.097	-.6297885	.05216
	-.2888396	.173952					
	c.timew1w3#c.w1HCYcenter2p15	.0218483	.0386704	0.56	0.572	-.0539445	.09764
	w1Folatecenter14p3	.013261	.0081451	1.63	0.104	-.0027136	.02923
	c.timew1w3#c.w1Folatecenter14p3	.0002714	.0018076	0.15	0.881	-.0032716	.00381
	c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0636111	.0209428	-3.04	0.003	-.1048478	-.02237
	c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0070678	.0047156	1.50	0.134	-.0021784	.0163
	_cons	28.54954	.0958909	297.73	0.000	28.3616	28.737

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	7.42e-07	.0001646	1.3e-195	4.2e+182
sd(_cons)	1.42607	.0450219	1.340503	1.517098
sd(Residual)	1.221769	.0272558	1.1695	1.276375

```

14 .
15 .
16 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Number of imputations = 5
Number of observations = 2,653
Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI = 0.0052
    Largest FMI = 0.0557
    DF: min = 1,357.23
        avg = 4.18e+13
        max = 8.79e+14
    F( 17, 1.5e+06) = 14.21
    Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.1638553	.1696114	-0.97	0.334	-.4962877 .1685
w1Agecent48		-.2265437	.0436203	-5.19	0.000	-.3120379 -.14104
c.timew1w3#c.w1Agecent48		-.0198077	.0099732	-1.99	0.047	-.0393549 -.00026
timew1w3		0	(omitted)			
Sex						
Men		-1.997113	.8055745	-2.48	0.013	-3.576011 -.41821
Sex#c.timew1w3						
Men		.1371449	.1834007	0.75	0.455	-.2223139 .49666
timew1w3		0	(omitted)			
Race						
AfrAm		-6.6407	.7704069	-8.62	0.000	-8.150669 -5.130
Race#c.timew1w3						
AfrAm		.0573116	.1770563	0.32	0.746	-.2897123 .40433
timew1w3		0	(omitted)			
PovStat						
Below		-4.016255	.7967382	-5.04	0.000	-5.577833 -2.4548
PovStat#c.timew1w3						
Below		-.2641897	.1779723	-1.48	0.138	-.613009 .08462
timew1w3		0	(omitted)			
invmillsmms		.052739	.0249034	2.12	0.034	.0039292 .10154
c.timew1w3#c.invmillsmms		-.0097903	.0050345	-1.94	0.052	-.0196577 .00007
timew1w3		0	(omitted)			
w1HCYcenter2p15		-1.117672	1.31134	-0.85	0.394	-3.687873 1.4523
c.timew1w3#c.w1HCYcenter2p15		.0818744	.315929	0.26	0.796	-.5373352 .70108
w1Folatecenter14p3		.1379352	.0611573	2.26	0.024	.0180336 .25783
c.timew1w3#c.w1Folatecenter14p3		-.0045921	.0147157	-0.31	0.755	-.0334345 .02425
c.w1HCYcenter2p15#c.w1Folatecenter14p3		-.4243051	.1523535	-2.79	0.005	-.723179 -.12543
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		.0363621	.0382277	0.95	0.342	-.0385734 .11129
_cons		83.13477	.7227248	115.03	0.000	81.71825 84.551

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000117	.0020058	5.2e-151	2.6e+140
sd(_cons)	9.998428	.3325921	9.367355	10.67202
sd(Residual)	10.0623	.2116984	9.655817	10.48589

```

17 .
18 .
19 .
20 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Imputations      =          5
Number of obs    =     2,464

Group variable: HNDID
Number of groups =     1,420
Obs per group:
min =           1
avg =          1.7
max =          2
Average RVI      =   0.0042
Largest FMI      =   0.0444
DF adjustment: Large sample
DF: min = 2,110.38
      avg = 2.08e+09
      max = 3.88e+10
Model F test: Equal FMI
F( 17, 2.4e+06) =   78.70
Prob > F = 0.0000

```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.150043	.0712955	-16.13	0.000	-1.289779	-1.0103
w1Agecent48	-.1531737	.0203835	-7.51	0.000	-.1931248	-.11322
c.timew1w3#c.w1Agecent48	-.0096643	.0040928	-2.36	0.018	-.017686	-.00164
timew1w3	0 (omitted)					
Sex						
Men	-2.458185	.3760236	-6.54	0.000	-3.195178	-1.7211
Sex#c.timew1w3						
Men	-.1433568	.0756607	-1.89	0.058	-.2916491	.00493
timew1w3	0 (omitted)					
Race						
AfrAm	-2.737157	.3602712	-7.60	0.000	-3.443276	-2.0310
Race#c.timew1w3						
AfrAm	.0893878	.0730624	1.22	0.221	-.0538118	.23258
timew1w3	0 (omitted)					
PovStat						
Below	-1.694184	.3670696	-4.62	0.000	-2.413627	-.97474
PovStat#c.timew1w3						
Below	.0053448	.0720435	0.07	0.941	-.135858	.14654
timew1w3	0 (omitted)					
invmillsmms	.0199879	.0111692	1.79	0.074	-.0019034	.04187
c.timew1w3#c.invmillsmms	-.0004779	.0019915	-0.24	0.810	-.0043812	.00342
timew1w3	0 (omitted)					
w1HCYcenter2p15	.4166079	.6055967	0.69	0.491	-.7703497	1.6035

c.timew1w3#c.w1HCYcenter2p15	<b>- .0544637</b>	.1216121	<b>-0.45</b>	0.654	<b>-.2928205</b>	.1838
w1Folatecenter14p3	<b>-.0017733</b>	.0280618	<b>-0.06</b>	0.950	<b>-.056805</b>	.0532
c.timew1w3#c.w1Folatecenter14p3	<b>.0095129</b>	.0054454	<b>1.75</b>	0.081	<b>-.00116</b>	.02018
c.w1HCYcenter2p15#c.w1Folatecenter14p3	<b>-.1528166</b>	.0676077	<b>-2.26</b>	0.024	<b>-.2853303</b>	.02030
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	<b>-.0197898</b>	.0137688	<b>-1.44</b>	0.151	<b>-.0467766</b>	.0071
_cons	<b>27.92702</b>	.3411652	<b>81.86</b>	0.000	<b>27.25835</b>	28.595

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>.2304242</b>	.1621809	.0579991	.9154499
sd(_cons)	<b>4.924645</b>	.1343956	4.668155	5.195227
sd(Residual)	<b>3.786125</b>	.1344425	3.531583	4.059014

```

21 .
22 .
23 .
24 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4cobs==1 || HNDID:

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

```

	Imputations = 5
	Number of obs = 2,339
	Number of groups = 1,391
	Obs per group:
	min = 1
	avg = 1.7
	max = 2
Average RVI	= 0.0040
Largest FMI	= 0.0255
DF: min	= 6,290.43
avg	= 3.71e+09
max	= 5.59e+10
F( 17, 2.8e+06)	= 47.90
Prob > F	= 0.0000

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	<b>-.3578701</b>	.0350103	<b>-10.22</b>	0.000	<b>-.4264891</b> -.28925
w1Agecent48	<b>-.0835903</b>	.009573	<b>-8.73</b>	0.000	<b>-.1023531</b> -.06482
c.timew1w3#c.w1Agecent48	<b>-.0039743</b>	.0020162	<b>-1.97</b>	0.049	<b>-.007926</b> -.00002
timew1w3	0 (omitted)				
Sex					
Men	<b>-1.124509</b>	.1763696	<b>-6.38</b>	0.000	<b>-1.470188</b> -.77883
Sex#c.timew1w3					
Men	<b>-.050037</b>	.0368533	<b>-1.36</b>	0.175	<b>-.1222681</b> .02219
timew1w3	0 (omitted)				

Race	Race						
AfrAm	AfrAm	<b>-1.529879</b>	.1688262	-9.06	0.000	<b>-1.860773</b>	<b>-1.1989</b>
Race#c.timew1w3	AfrAm	<b>.0219356</b>	.035709	0.61	0.539	<b>-.0480527</b>	<b>.09192</b>
	timew1w3	0	(omitted)				
PovStat	PovStat						
Below	Below	<b>-.5394721</b>	.1720242	-3.14	0.002	<b>-.8766334</b>	<b>-.20231</b>
PovStat#c.timew1w3	Below	<b>-.0315232</b>	.0351304	-0.90	0.370	<b>-.1003775</b>	<b>.03732</b>
timew1w3	invmillsmms	0	(omitted)				
	invmillsmms	<b>.0094505</b>	.0051754	1.83	0.068	<b>-.0006931</b>	<b>.01959</b>
c.timew1w3#c.invmillsmms		<b>-.0004015</b>	.0009412	-0.43	0.670	<b>-.0022463</b>	<b>.00144</b>
timew1w3	w1HCYcenter2p15	0	(omitted)				
	w1HCYcenter2p15	<b>.2815195</b>	.2852524	0.99	0.324	<b>-.277566</b>	<b>.8406</b>
c.timew1w3#c.w1HCYcenter2p15		<b>.0056248</b>	.059356	0.09	0.925	<b>-.1107109</b>	<b>.12196</b>
w1Folatecenter14p3	w1Folatecenter14p3	<b>.0098948</b>	.0130169	0.76	0.447	<b>-.0156212</b>	<b>.03541</b>
c.timew1w3#c.w1Folatecenter14p3		<b>.0017742</b>	.0026244	0.68	0.499	<b>-.0033698</b>	<b>.00691</b>
c.w1HCYcenter2p15#c.w1Folatecenter14p3		<b>-.065925</b>	.0325592	-2.02	0.043	<b>-.1297522</b>	<b>-.00209</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		<b>-.0001895</b>	.0066958	-0.03	0.977	<b>-.0133138</b>	<b>.01293</b>
_cons		<b>8.896289</b>	.1601126	55.56	0.000	<b>8.582474</b>	<b>9.2101</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Identity				
sd(_cons)	<b>2.202871</b>	.0644378	<b>2.080128</b>	<b>2.332858</b>
sd(Residual)	<b>1.827537</b>	.0422149	<b>1.746643</b>	<b>1.912179</b>

25 .  
 26 .  
 27 .  
 28 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t  
 > c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
 > if sample4dobs==1 || HNDID: timew1w3

Multiple-imputation estimates                          Imputations = 5  
 Mixed-effects ML regression                          Number of obs = 2,751

Group variable: HNDID Number of groups = 1,443  
 Obs per group:  
     min = 1  
     avg = 1.9  
     max = 2  
     Average RVI = 0.0150  
     Largest FMI = 0.1709  
 DF adjustment: Large sample DF: min = 155.68  
     avg = 6.95e+08  
     max = 1.32e+10  
 Model F test: Equal FMI F( 17,185279.4) = 35.33  
 Prob > F = 0.0000

	BVRTot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.276996	.0479179	5.78	0.000	.1830786	.37091
w1Agecent48	.1359262	.0140974	9.64	0.000	.1082945	.16355
c.timew1w3#c.w1Agecent48	.0070426	.0028281	2.49	0.013	.0014996	.01258
timew1w3	0 (omitted)					
Sex Men	-1.035532	.2595806	-3.99	0.000	-1.544302	-.52676
Sex#c.timew1w3 Men	.0700832	.0519424	1.35	0.177	-.031722	.17188
timew1w3	0 (omitted)					
Race AfrAm	1.012547	.247904	4.08	0.000	.526664	1.4984
Race#c.timew1w3 AfrAm	.1782809	.0502017	3.55	0.000	.0798874	.27667
timew1w3	0 (omitted)					
PovStat Below	1.185618	.2557862	4.64	0.000	.684286	1.6869
PovStat#c.timew1w3 Below	.0560928	.0504295	1.11	0.266	-.0427472	.15493
timew1w3 invmillsmms	0 (omitted)					
invmillsmms	-.0170942	.0080641	-2.12	0.034	-.0328996	-.00128
c.timew1w3#c.invmillsmms	-.0002421	.0014769	-0.16	0.870	-.0031368	.00265
timew1w3 w1HCYcenter2p15	0 (omitted)					
w1HCYcenter2p15	.219883	.4232043	0.52	0.603	-.6096617	1.0494
c.timew1w3#c.w1HCYcenter2p15	.1905009	.0839419	2.27	0.023	.0259778	.35502
w1Folatecenter14p3	-.0331698	.0209927	-1.58	0.116	-.0746371	.00829
c.timew1w3#c.w1Folatecenter14p3	.0016607	.0038375	0.43	0.665	-.0058609	.00918
c.w1HCYcenter2p15#c.w1Folatecenter14p3	.03286	.0481087	0.68	0.495	-.0614579	.12717
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	.023039	.0096303	2.39	0.017	.0041633	.04191

	<u>_cons</u>	5.8444979	.2324179	25.15	0.000	5.389448	6.3005
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.161634	.1175555	.038856	.6723677
sd(_cons)	3.550596	.0950691	3.369068	3.741904
sd(Residual)	2.875589	.094024	2.697086	3.065906

29 .

30 .

31 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat > c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 //> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,486
Group variable: HNDID	Number of groups = 1,418
	Obs per group:
	min = 1
	avg = 1.8
	max = 2
	Average RVI = 0.0068
	Largest FMI = 0.0844
DF adjustment: Large sample	DF: min = 604.03
	avg = 3.03e+08
	max = 2.58e+09
Model F test: Equal FMI	F( 17, 884000.2) = 10.36
	Prob > F = 0.0000

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0518209	.0250903	-2.07	0.039	-.1009971	-.00264
w1Agecent48	-.0217284	.0067168	-3.23	0.001	-.0348932	-.00856
c.timew1w3#c.w1Agecent48	-.0028951	.001461	-1.98	0.048	-.0057586	-.00003
timew1w3	0 (omitted)					
Sex						
Men	-.1870767	.1247677	-1.50	0.134	-.431617	.05746
Sex#c.timew1w3						
Men	-.0081034	.02701	-0.30	0.764	-.0610421	.04483
timew1w3	0 (omitted)					
Race						
AfrAm	-.9330182	.119387	-7.82	0.000	-1.167012	-.69902
Race#c.timew1w3						
AfrAm	.025387	.0261074	0.97	0.331	-.0257825	.07655
timew1w3	0 (omitted)					
PovStat						
Below	-.4456782	.1222173	-3.65	0.000	-.6852197	-.20613

PovStat#c.timew1w3 Below	<b>- .0528551</b>	<b>.0261389</b>	<b>-2.02</b>	<b>0.043</b>	<b>-.1040865</b>	<b>-.00162</b>
timew1w3 invmillsmms	<b>0</b> (omitted)	<b>.003712</b>	<b>0.52</b>	<b>0.601</b>	<b>-.0053323</b>	<b>.00921</b>
c.timew1w3#c.invmillsmms	<b>-.0005587</b>	<b>.0007314</b>	<b>-0.76</b>	<b>0.445</b>	<b>-.0019922</b>	<b>.00087</b>
timew1w3 w1HCYcenter2p15	<b>0</b> (omitted)	<b>-.2262121</b>	<b>.2057652</b>	<b>-1.10</b>	<b>0.272</b>	<b>-.6295117</b>
c.timew1w3#c.w1HCYcenter2p15	<b>-.0050618</b>	<b>.044671</b>	<b>-0.11</b>	<b>0.910</b>	<b>-.0926153</b>	<b>.08249</b>
w1Folatecenter14p3	<b>.0038832</b>	<b>.0095076</b>	<b>0.41</b>	<b>0.683</b>	<b>-.0147889</b>	<b>.02255</b>
c.timew1w3#c.w1Folatecenter14p3	<b>.0009087</b>	<b>.0019735</b>	<b>0.46</b>	<b>0.645</b>	<b>-.0029597</b>	<b>.00477</b>
c.w1HCYcenter2p15#c.w1Folatecenter14p3	<b>.0121658</b>	<b>.0238926</b>	<b>0.51</b>	<b>0.611</b>	<b>-.0346842</b>	<b>.05901</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	<b>-.005209</b>	<b>.0050828</b>	<b>-1.02</b>	<b>0.305</b>	<b>-.0151722</b>	<b>.00475</b>
_cons	<b>7.545675</b>	<b>.1116549</b>	<b>67.58</b>	<b>0.000</b>	<b>7.326836</b>	<b>7.7645</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	<b>.1139524</b>	<b>.0388368</b>	<b>.0584279</b>
sd(_cons)	<b>1.550296</b>	<b>.0470673</b>	<b>1.460737</b>
sd(Residual)	<b>1.369744</b>	<b>.0466346</b>	<b>1.281325</b>
			<b>1.464264</b>

32 .

33 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat  
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
> if sample4fobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,773
Group variable: HNDID	Number of groups = 1,446
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = 0.0022
	Largest FMI = 0.0160
	DF: min = 15,873.16
	avg = 2.69e+09
	max = 4.60e+10
Model F test: Equal FMI	F( 17, 8.4e+06) = 10.49
	Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0851315	.0498036	1.71	0.087	-.0124818 .18274
w1Agecent48	-.0911368	.0158843	-5.74	0.000	-.1222695 -.06000
c.timew1w3#c.w1Agecent48	-.0024482	.0029288	-0.84	0.403	-.0081885 .00329
timew1w3	0 (omitted)				
Sex					
Men	1.039988	.2931662	3.55	0.000	.4653931 1.6145
Sex#c.timew1w3					
Men	-.0077942	.053833	-0.14	0.885	-.113305 .09771
timew1w3	0 (omitted)				
Race					
AfrAm	-1.858006	.2809065	-6.61	0.000	-2.408572 -1.3074
Race#c.timew1w3					
AfrAm	-.0477126	.0521165	-0.92	0.360	-.1498591 .05443
timew1w3	0 (omitted)				
PovStat					
Below	-1.399814	.2900853	-4.83	0.000	-1.968371 -.83125
PovStat#c.timew1w3					
Below	.0139647	.0523523	0.27	0.790	-.0886438 .11657
timew1w3	0 (omitted)				
invmillsmms	.0107706	.0092774	1.16	0.246	-.0074127 .02895
c.timew1w3#c.invmillsmms	-.001242	.0015719	-0.79	0.429	-.0043228 .00183
timew1w3	0 (omitted)				
w1HCYcenter2p15	-.146198	.4748568	-0.31	0.758	-1.076901 .78456
c.timew1w3#c.w1HCYcenter2p15	-.0365441	.0868469	-0.42	0.674	-.2067609 .13367
w1Folatecenter14p3	.0624414	.0218364	2.86	0.004	.0196409 .10524
c.timew1w3#c.w1Folatecenter14p3	-.0025324	.0039861	-0.64	0.525	-.0103456 .00528
c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.074312	.0536689	-1.38	0.166	-.1795043 .03088
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0146583	.0099419	1.47	0.140	-.0048281 .03414
_cons	20.09293	.2626995	76.49	0.000	19.57805 20.607

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.1002602	.217164	.0014369 6.995761
sd(_cons)	4.203933	.1023555	4.008032 4.40941
sd(Residual)	3.026151	.0979856	2.84007 3.224425

34 .  
 35 . mi estimate: mixed DigitSpanFwd c.timew1w3#c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat  
 > c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
 > if sample4gobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,717
Group variable: HNDID	Number of groups = 1,443
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0059
	Largest FMI = 0.0860
DF adjustment: Large sample	DF: min = 582.25
	avg = 7.25e+08
	max = 9.27e+09
Model F test: Equal FMI	F( 17, 1.1e+06) = 7.30
	Prob > F = 0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0288038	.0198271	1.45	0.146	-.0100565 .06766
w1Agecent48	-.0183582	.0064815	-2.83	0.005	-.0310618 -.00565
c.timew1w3#c.w1Agecent48	-.0031435	.0011573	-2.72	0.007	-.0054118 -.00087
timew1w3	0 (omitted)				
Sex					
Men	.2518832	.1197953	2.10	0.035	.0170886 .48667
Sex#c.timew1w3	-.0323542	.0214815	-1.51	0.132	-.0744572 .00974
Men					
timew1w3	0 (omitted)				
Race					
AfrAm	-.6619949	.114393	-5.79	0.000	-.8862012 -.43778
Race#c.timew1w3	-.0190165	.0206797	-0.92	0.358	-.059548 .02159
AfrAm					
timew1w3	0 (omitted)				
PovStat					
Below	-.4562071	.1179467	-3.87	0.000	-.6873784 -.22503
PovStat#c.timew1w3	-.0250541	.0207875	-1.21	0.228	-.0657969 .01568
Below					
timew1w3	0 (omitted)				
invmillsmms	.0059015	.0037565	1.57	0.116	-.0014612 .01328
c.timew1w3#c.invmillsmms	-.0005152	.0006157	-0.84	0.403	-.001722 .00069
timew1w3	0 (omitted)				
w1HCYcenter2p15	-.2119318	.1950476	-1.09	0.277	-.5942291 .17036
c.timew1w3#c.w1HCYcenter2p15	-.0306757	.035027	-0.88	0.381	-.0993273 .03793

w1Folatecenter14p3	.0154067	.0092599	1.66	0.097	-.0027802	.03359
c.timew1w3#c.w1Folatecenter14p3	-.000768	.001584	-0.48	0.628	-.0038726	.00233
c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0376431	.0221333	-1.70	0.089	-.0810256	.00573
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0024827	.0040026	0.62	0.535	-.0053623	.01032
_cons	7.748308	.1073966	72.15	0.000	7.537814	7.9588

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0868025	.0400779	.0351173	.2145575
sd(_cons)	1.765291	.0417844	1.685266	1.849116
sd(Residual)	1.156544	.0393872	1.081866	1.236376

36 .

37 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta  
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	2,704
Group variable: HNDID	Number of groups	=	1,444
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	.
	Largest FMI	=	.
DF adjustment: Large sample	DF:	min	= 0.00
		avg	= .
		max	= .
Model F test: Equal FMI	F( 17, 3.7e+06)	=	11.34
	Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0030322	.0205778	0.15	0.883	-.0372995 .04336
w1Agecent48	-.0248889	.0063214	-3.94	0.000	-.0372787 -.01249
c.timew1w3#c.w1Agecent48	-.0011569	.0012024	-0.96	0.336	-.0035135 .00119
timew1w3	0 (omitted)				
Sex					
Men	-.0352267	.1169086	-0.30	0.763	-.2643634 .193
Sex#c.timew1w3					
Men	-.0136289	.0223103	-0.61	0.541	-.0573563 .03009
timew1w3	0 (omitted)				
Race					
AfrAm	-.9906102	.1117055	-8.87	0.000	-1.209549 -.77167

Race#c.timew1w3							
AfrAm	<b>-.0169267</b>	<b>.0214858</b>	<b>-0.79</b>	<b>0.431</b>	<b>-.0590381</b>	<b>.02518</b>	
timew1w3		<b>0</b> (omitted)					
PovStat							
Below	<b>-.5423383</b>	<b>.1153168</b>	<b>-4.70</b>	<b>0.000</b>	<b>-.768355</b>	<b>-.31632</b>	
PovStat#c.timew1w3							
Below	<b>.0017093</b>	<b>.0215691</b>	<b>0.08</b>	<b>0.937</b>	<b>-.0405655</b>	<b>.0439</b>	
timew1w3		<b>0</b> (omitted)					
invmillsmms	<b>.0059873</b>	<b>.0036657</b>	<b>1.63</b>	<b>0.102</b>	<b>-.0011973</b>	<b>.0131</b>	
c.timew1w3#c.invmillsmms							
	<b>-.0004551</b>	<b>.0006376</b>	<b>-0.71</b>	<b>0.475</b>	<b>-.0017047</b>	<b>.00079</b>	
timew1w3		<b>0</b> (omitted)					
w1HCYcenter2p15	<b>-.2150074</b>	<b>.1895922</b>	<b>-1.13</b>	<b>0.257</b>	<b>-.586602</b>	<b>.15658</b>	
c.timew1w3#c.w1HCYcenter2p15							
	<b>-.0002544</b>	<b>.0362467</b>	<b>-0.01</b>	<b>0.994</b>	<b>-.0712966</b>	<b>.07078</b>	
w1Folatecenter14p3							
	<b>.0195701</b>	<b>.0088344</b>	<b>2.22</b>	<b>0.027</b>	<b>.0022497</b>	<b>.03689</b>	
c.timew1w3#c.w1Folatecenter14p3							
	<b>-.0009856</b>	<b>.0016467</b>	<b>-0.60</b>	<b>0.550</b>	<b>-.0042131</b>	<b>.0022</b>	
c.w1HCYcenter2p15#c.w1Folatecenter14p3							
	<b>-.0258385</b>	<b>.0215853</b>	<b>-1.20</b>	<b>0.231</b>	<b>-.0681456</b>	<b>.01648</b>	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3							
	<b>-.0053448</b>	<b>.0041657</b>	<b>-1.28</b>	<b>0.199</b>	<b>-.0135096</b>	<b>.002</b>	
_cons	<b>6.411342</b>	<b>.1047222</b>	<b>61.22</b>	<b>0.000</b>	<b>6.206091</b>	<b>6.6165</b>	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	<b>4.77e-07</b>	.	.
sd(_cons)	<b>1.639601</b>	<b>.0416043</b>	<b>1.560052</b>
			<b>1.723206</b>
sd(Residual)	<b>1.240087</b>	<b>.0247619</b>	<b>1.192492</b>
			<b>1.289581</b>

38 .

39 . mi estimate: mixed clock\_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt  
 > c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
 > if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	2,767
Group variable: HNDID	Number of groups	=	1,445
	Obs per group:		
	min =	1	
	avg =	1.9	
	max =	2	
	Average RVI	=	0.0018
	Largest FMI	=	0.0102
DF adjustment: Large sample	DF: min	=	38,640.85
	avg	=	2.32e+10
	max	=	4.31e+11
Model F test: Equal FMI	F( 17, 1.2e+07)	=	5.65
	Prob > F	=	0.0000

	clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0255419	.0157426	-1.62	0.105	-.0563967 .005
w1Agecent48		-.0071252	.0036153	-1.97	0.049	-.0142111 -.00003
c.timew1w3#c.w1Agecent48		-.0013621	.0009264	-1.47	0.142	-.0031778 .00045
	timew1w3	0	(omitted)			
	Sex					
Men		.088555	.0667376	1.33	0.185	-.0422484 .21935
	Sex#c.timew1w3					
Men		.0149563	.0170124	0.88	0.379	-.0183874 .000
	timew1w3	0	(omitted)			
	Race					
AfrAm		-.3720729	.0638488	-5.83	0.000	-.4972142 -.24693
	Race#c.timew1w3					
AfrAm		.0137529	.0164479	0.84	0.403	-.0184844 .04599
	timew1w3	0	(omitted)			
	PovStat					
Below		-.075045	.0661987	-1.13	0.257	-.2047922 .05478
	PovStat#c.timew1w3					
Below		-.0100241	.0165792	-0.60	0.545	-.0425187 .02247
	timew1w3	0	(omitted)			
invmillsmms		.000101	.0021247	0.05	0.962	-.0040633 .00426
	c.timew1w3#c.invmillsmms					
		-.0001279	.0004963	-0.26	0.797	-.0011007 .00084
	timew1w3	0	(omitted)			
w1HCYcenter2p15		-.0187451	.1086828	-0.17	0.863	-.2317606 .19427
	c.timew1w3#c.w1HCYcenter2p15					
		-.0580045	.0276956	-2.09	0.036	-.112287 -.00327
	w1Folatecenter14p3					
		.0122893	.0050332	2.44	0.015	.0024242 .02215
	c.timew1w3#c.w1Folatecenter14p3					
		-.0008783	.0012756	-0.69	0.491	-.0033785 .00162
	c.w1HCYcenter2p15#c.w1Folatecenter14p3					
		.0188055	.0123631	1.52	0.128	-.0054263 .04303
	c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3					
		-.0061804	.0031982	-1.93	0.053	-.0124487 .00000
	_cons	9.023722	.0597163	151.11	0.000	8.90668 9.1407

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0347454	.0422877	.0031983 .3774615
sd(_cons)	.6793962	.029969	.6231256 .7407483
sd(Residual)	.9684792	.0250019	.9206955 1.018743

40 .  
 41 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Pc  
 > c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
 > if sample4jobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations =	5
Mixed-effects ML regression	Number of obs =	2,701
Group variable: HNDID	Number of groups =	1,428
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0053
	Largest FMI =	0.0408
DF adjustment: Large sample	DF: min =	2,501.13
	avg =	4.85e+09
	max =	8.78e+10
Model F test: Equal FMI	F( 17, 1.4e+06) =	22.39
	Prob > F =	0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0031535	.0041289	0.76	0.445	-.0049391 .0112
w1Agecent48	.0106134	.0011033	9.62	0.000	.0084509 .01277
c.timew1w3#c.w1Agecent48	.0007768	.0002446	3.18	0.001	.0002974 .00125
timew1w3	0 (omitted)				
Sex					
Men	.0898594	.0204265	4.40	0.000	.0498241 .12989
Sex#c.timew1w3	.0009757	.004504	0.22	0.828	-.0078519 .00980
Men					
timew1w3	0 (omitted)				
Race					
AfrAm	.1801891	.0194373	9.27	0.000	.1420926 .21828
Race#c.timew1w3	.0002964	.0043229	0.07	0.945	-.0081762 .00876
AfrAm					
timew1w3	0 (omitted)				
PovStat					
Below	.0915359	.0201876	4.53	0.000	.051969 .13110
PovStat#c.timew1w3	.004349	.0043747	0.99	0.320	-.0042253 .01292
Below					
timew1w3	0 (omitted)				
invmillsmms	.0004098	.0006349	0.65	0.519	-.0008345 .00165
c.timew1w3#c.invmillsmms	-.0001539	.0001282	-1.20	0.230	-.0004051 .00009
timew1w3	0 (omitted)				
w1HCYcenter2p15	.0816483	.0334841	2.44	0.015	.0160206 .14722
c.timew1w3#c.w1HCYcenter2p15	-.0051852	.007452	-0.70	0.487	-.0197909 .00942

w1Folatecenter14p3	<b>-.0017605</b>	<b>.00155</b>	<b>-1.14</b>	<b>0.256</b>	<b>-.0047984</b>	<b>.00127</b>
c.timew1w3#c.w1Folatecenter14p3	<b>.0000567</b>	<b>.0003441</b>	<b>0.16</b>	<b>0.869</b>	<b>-.000618</b>	<b>.00073</b>
c.w1HCYcenter2p15#c.w1Folatecenter14p3	<b>-.0043595</b>	<b>.004028</b>	<b>-1.08</b>	<b>0.279</b>	<b>-.0122559</b>	<b>.00353</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	<b>.0029757</b>	<b>.0009181</b>	<b>3.24</b>	<b>0.001</b>	<b>.0011763</b>	<b>.00477</b>
_cons	<b>3.277577</b>	<b>.0181665</b>	<b>180.42</b>	<b>0.000</b>	<b>3.241972</b>	<b>3.3131</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	<b>.0251857</b>	<b>.0055365</b>	<b>.0163696</b>
sd(_cons)	<b>.2660915</b>	<b>.0078294</b>	<b>.2511803</b>
sd(Residual)	<b>.2348444</b>	<b>.0078101</b>	<b>.2200252</b>
			<b>.2506618</b>

42 .

43 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po  
 > c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
 > if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	2,609
Group variable: HNDID	Number of groups	=	1,414
	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( 17,365225.9)	=	24.69
	Prob > F	=	0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	<b>.0021196</b>	<b>.0061108</b>	<b>0.35</b>	<b>0.729</b>	<b>-.0098574</b>
w1Agecent48	<b>.016976</b>	<b>.0018777</b>	<b>9.04</b>	<b>0.000</b>	<b>.0132957</b>
c.timew1w3#c.w1Agecent48	<b>.0004675</b>	<b>.000364</b>	<b>1.28</b>	<b>0.199</b>	<b>-.000246</b>
timew1w3	0	(omitted)			
Sex					
Men	<b>.0441263</b>	<b>.0347381</b>	<b>1.27</b>	<b>0.204</b>	<b>-.0239592</b>
Sex#c.timew1w3					
Men	<b>-.0032952</b>	<b>.0067182</b>	<b>-0.49</b>	<b>0.624</b>	<b>-.0164626</b>
timew1w3	0	(omitted)			
Race					
AfrAm	<b>.3997204</b>	<b>.0330586</b>	<b>12.09</b>	<b>0.000</b>	<b>.3349268</b>
					<b>.46451</b>

Race#c.timew1w3							
AfrAm	.0030076	.0064443	0.47	0.641	-.0096229	.01563	
timew1w3	0	(omitted)					
PovStat							
Below	.2351706	.0343135	6.85	0.000	.1679174	.30242	
PovStat#c.timew1w3							
Below	.0059439	.0065564	0.91	0.365	-.0069064	.01879	
timew1w3	0	(omitted)					
invmillsmms	-.0024497	.0010789	-2.27	0.023	-.0045643	-.00033	
c.timew1w3#c.invmillsmms	-.0006216	.0004968	-1.25	0.211	-.0015953	.00035	
timew1w3	0	(omitted)					
w1HCYcenter2p15	.1316782	.0569792	2.31	0.021	.0199989	.24335	
c.timew1w3#c.w1HCYcenter2p15	.0104634	.0109763	0.95	0.340	-.0110498	.03197	
w1Folatecenter14p3	.0005063	.00268	0.19	0.850	-.0047509	.00576	
c.timew1w3#c.w1Folatecenter14p3	.0000877	.0005074	0.17	0.863	-.000907	.00108	
c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0110179	.0069127	1.59	0.111	-.0025503	.02458	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0004055	.0013391	-0.30	0.762	-.0030307	.00221	
_cons	4.246671	.0309246	137.32	0.000	4.18606	4.3072	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.44e-06	.	.	.
sd(_cons)	.4828243	.0130625	.4578892	.5091173
sd(Residual)	.3619159	.0077237	.3470899	.3773752

```

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

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

```

```
51 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,653
Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0398
Largest FMI = 0.3005
DF: min = 53.03
      avg = 3.60e+11
      max = 1.26e+13
F( 31,65116.7) = 34.66
Prob > F = 0.0000
```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0951128	.0493385	1.93	0.054	-.001623	.19184
w1Agecent48	-.0180275	.0049703	-3.63	0.000	-.02777	-.0082
c.timew1w3#c.w1Agecent48	-.0031159	.0012223	-2.55	0.011	-.0055115	-.00072
timew1w3	0	(omitted)				
Sex						
Men	-.33574	.0913345	-3.68	0.000	-.5147523	-.15672
Sex#c.timew1w3	.0213985	.0226485	0.94	0.345	-.022992	.0657
Men						
timew1w3	0	(omitted)				
Race						
AfrAm	-.2113973	.0903195	-2.34	0.019	-.388431	-.03438
Race#c.timew1w3	-.0205832	.0226534	-0.91	0.364	-.0649842	.02381
AfrAm						
timew1w3	0	(omitted)				
PovStat						
Below	-.0568282	.0922923	-0.62	0.538	-.2377183	.12406
PovStat#c.timew1w3	-.0314075	.0224562	-1.40	0.162	-.0754209	.01266
Below						
timew1w3	0	(omitted)				
w1edubr						
2	.5310044	.1850759	2.87	0.004	.1682141	.89379
3	.7086077	.2020594	3.51	0.000	.3124359	1.1047
w1edubr#c.timew1w3						
2	-.068159	.0467641	-1.46	0.145	-.1598355	.02351
3	-.0650147	.0505621	-1.29	0.199	-.1641561	.03412

timew1w3	0	(omitted)					
w1WRATTtotalcent42	.1455033	.0062815	23.16	0.000	.1331907	.15781	
c.timew1w3#c.w1WRATTtotalcent42	-.0069148	.001715	-4.03	0.000	-.0102768	-.00355	
timew1w3	0	(omitted)					
1.w1smoke	.0369707	.1003377	0.37	0.713	-.1602504	.23419	
w1smoke#c.timew1w3							
1	-.054528	.0245834	-2.22	0.027	-.1027114	-.00634	
timew1w3	0	(omitted)					
1.w1currdrugs	-.0913957	.1277209	-0.72	0.476	-.3447229	.16193	
w1currdrugs#c.timew1w3							
1	.0169149	.0299665	0.56	0.573	-.0419582	.0757	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.0044689	.0045575	-0.98	0.331	-.0136101	.00467	
c.timew1w3#c.w1hei2010_total_scorecent43	.000466	.0012036	0.39	0.700	-.0019447	.00287	
timew1w3	0	(omitted)					
w1BMIcon30	-.0044239	.0059914	-0.74	0.460	-.0161671	.00731	
c.timew1w3#c.w1BMIcon30	-.000494	.0014666	-0.34	0.736	-.0033686	.00238	
timew1w3	0	(omitted)					
invmillsmms	.0077842	.0027711	2.81	0.005	.0023529	.01321	
c.timew1w3#c.invmillsmms	-.0018825	.0006093	-3.09	0.002	-.0030768	-.00068	
timew1w3	0	(omitted)					
w1HCYcenter2p15	-.0120314	.1460602	-0.08	0.934	-.2983094	.27424	
c.timew1w3#c.w1HCYcenter2p15	.0014367	.0379032	0.04	0.970	-.0728524	.07572	
w1Folatecenter14p3	.0052957	.0070696	0.75	0.454	-.0085649	.01915	
c.timew1w3#c.w1Folatecenter14p3	-.000591	.0018537	-0.32	0.750	-.0042244	.00304	
c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0344576	.0169979	-2.03	0.043	-.0677992	-.0011	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0059989	.0046374	1.29	0.196	-.0030928	.01509	
_cons	27.41459	.1937615	141.49	0.000	27.03474	27.794	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	4.92e-07	.0001929	0 .
sd(_cons)	1.000932	.0426261	.9207712 1.088071
sd(Residual)	1.21254	.0264842	1.161727 1.265576

```

52 .
53 .
54 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,653
Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
    Average RVI = 0.0362
    Largest FMI = 0.3452
    DF: min = 40.64
    avg = 2.37e+09
    max = 8.29e+10
F( 31, 76866.6) = 30.77
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4459081	.3982207	1.12	0.263	.3347115	1.2265
w1Agecent48	-.1652689	.0389672	-4.24	0.000	-.2416479	-.08888
c.timew1w3#c.w1Agecent48	-.0227041	.0099291	-2.29	0.022	-.0421654	-.00324
timew1w3	0 (omitted)					
Sex						
Men	-1.981403	.7174914	-2.76	0.006	-3.387661	-.57514
Sex#c.timew1w3						
Men	.1316918	.1844529	0.71	0.475	-.2298373	.49322
timew1w3	0 (omitted)					
Race						
AfrAm	-3.238837	.7072826	-4.58	0.000	-4.625117	-1.852
Race#c.timew1w3						
AfrAm	-.0045761	.1840231	-0.02	0.980	-.3652624	.35611
timew1w3	0 (omitted)					
PovStat						
Below	-.6368018	.7249289	-0.88	0.380	-2.05764	.78403
PovStat#c.timew1w3						
Below	-.272513	.1827014	-1.49	0.136	-.6306022	.08557
timew1w3	0 (omitted)					
w1edubr						
2	4.074315	1.448156	2.81	0.005	1.235839	6.912
3	6.187129	1.580385	3.91	0.000	3.089027	9.2852
w1edubr#c.timew1w3						
2	-.5573635	.3779882	-1.47	0.140	-1.298284	.18355

	3		<b>- .4354465</b>	<b>.4091058</b>	<b>-1.06</b>	<b>0.287</b>	<b>-1.237495</b>	<b>.3666</b>
		timew1w3	0	(omitted)				
	w1WRATtotalcent42		<b>.9517853</b>	<b>.0492642</b>	<b>19.32</b>	<b>0.000</b>	<b>.8552236</b>	<b>1.0483</b>
c.timew1w3#c.w1WRATtotalcent42			<b>-.0312119</b>	<b>.0139172</b>	<b>-2.24</b>	<b>0.025</b>	<b>-.0584943</b>	<b>-.00392</b>
		timew1w3	0	(omitted)				
	1.w1smoke		<b>-.3175952</b>	<b>.7791684</b>	<b>-0.41</b>	<b>0.684</b>	<b>-1.846951</b>	<b>1.2117</b>
	w1smoke#c.timew1w3							
	1		<b>-.3188717</b>	<b>.1988942</b>	<b>-1.60</b>	<b>0.109</b>	<b>-.7086972</b>	<b>.07095</b>
		timew1w3	0	(omitted)				
	1.w1currdrugs		<b>-.1480554</b>	<b>.9792336</b>	<b>-0.15</b>	<b>0.880</b>	<b>-2.080831</b>	<b>1.784</b>
	w1currdrugs#c.timew1w3							
	1		<b>.0782446</b>	<b>.2467291</b>	<b>0.32</b>	<b>0.751</b>	<b>-.4072451</b>	<b>.56373</b>
		timew1w3	0	(omitted)				
	w1hei2010_total_scorecent43		<b>-.024295</b>	<b>.0349054</b>	<b>-0.70</b>	<b>0.488</b>	<b>-.0937839</b>	<b>.0451</b>
c.timew1w3#c.w1hei2010_total_scorecent43			<b>.0062762</b>	<b>.010096</b>	<b>0.62</b>	<b>0.538</b>	<b>-.0141185</b>	<b>.02667</b>
		timew1w3	0	(omitted)				
	w1BMIcon30		<b>-.0370739</b>	<b>.0469034</b>	<b>-0.79</b>	<b>0.429</b>	<b>-.1290028</b>	<b>.0548</b>
c.timew1w3#c.w1BMIcon30			<b>-.0043662</b>	<b>.0119378</b>	<b>-0.37</b>	<b>0.715</b>	<b>-.0277655</b>	<b>.01903</b>
		timew1w3	0	(omitted)				
	invmillsmms		<b>.0433517</b>	<b>.0217636</b>	<b>1.99</b>	<b>0.046</b>	<b>.0006959</b>	<b>.08600</b>
c.timew1w3#c.invmillsmms			<b>-.0099836</b>	<b>.0049667</b>	<b>-2.01</b>	<b>0.044</b>	<b>-.0197182</b>	<b>-.0002</b>
		timew1w3	0	(omitted)				
	w1HCYcenter2p15		<b>.6790033</b>	<b>1.14427</b>	<b>0.59</b>	<b>0.553</b>	<b>-1.563732</b>	<b>2.9217</b>
c.timew1w3#c.w1HCYcenter2p15			<b>-.070524</b>	<b>.307679</b>	<b>-0.23</b>	<b>0.819</b>	<b>-.6735645</b>	<b>.53251</b>
		w1Folatecenter14p3						
		<b>.0703528</b>	<b>.0552919</b>	<b>1.27</b>	<b>0.203</b>	<b>-.0380342</b>	<b>.17873</b>	
c.timew1w3#c.w1Folatecenter14p3			<b>-.0137592</b>	<b>.0151653</b>	<b>-0.91</b>	<b>0.364</b>	<b>-.0434901</b>	<b>.01597</b>
		c.w1HCYcenter2p15#c.w1Folatecenter14p3						
		<b>-.2205085</b>	<b>.130837</b>	<b>-1.69</b>	<b>0.092</b>	<b>-.4769555</b>	<b>.03593</b>	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3			<b>.0294367</b>	<b>.0373548</b>	<b>0.79</b>	<b>0.431</b>	<b>-.0437835</b>	<b>.10265</b>
		_cons	<b>74.86147</b>	<b>1.518679</b>	<b>49.29</b>	<b>0.000</b>	<b>71.88445</b>	<b>77.838</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>.0002958</b>	<b>.0273552</b>	<b>5.49e-83</b>	<b>1.59e+75</b>
sd(_cons)	<b>7.402364</b>	<b>.3174523</b>	<b>6.805597</b>	<b>8.051461</b>
sd(Residual)	<b>9.886187</b>	<b>.2021732</b>	<b>9.49777</b>	<b>10.29049</b>

```

55 .
56 .
57 .
58 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs   =    2,464

Group variable: HNDID                Number of groups =    1,420
                                         Obs per group:
                                         min =        1
                                         avg =       1.7
                                         max =       2
                                         Average RVI =     0.0413
                                         Largest FMI =   0.3938
DF adjustment: Large sample          DF:    min =    31.48
                                         avg = 270,322.65
                                         max = 3190113.98
Model F test: Equal FMI             F( 31, 60001.5) =    50.81
                                         Prob > F =    0.0000

```

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.186261	.1544803	-7.68	0.000	-1.489045 -.88347
w1Agecent48		-.1521237	.0193105	-7.88	0.000	-.1899724 -.11427
c.timew1w3#c.w1Agecent48		-.0078052	.0041645	-1.87	0.061	-.0159676 .00035
timew1w3		0	(omitted)			
Sex						
Men		-2.141901	.3576566	-5.99	0.000	-2.842895 -1.4409
Sex#c.timew1w3						
Men		-.1873911	.077424	-2.42	0.016	-.33914 -.03564
timew1w3		0	(omitted)			
Race						
AfrAm		-1.941229	.35539	-5.46	0.000	-2.637911 -1.2445
Race#c.timew1w3						
AfrAm		.093496	.0771916	1.21	0.226	-.0578233 .24481
timew1w3		0	(omitted)			
PovStat						
Below		-.3388636	.359176	-0.94	0.345	-1.042852 .36512
PovStat#c.timew1w3						
Below		-.0527184	.0758249	-0.70	0.487	-.2013346 .09589
timew1w3		0	(omitted)			
w1edubr						
2		-.3934735	.7077799	-0.56	0.578	-1.781697 .99479
3		1.837787	.7678976	2.39	0.017	.3319346 3.3436
w1edubr#c.timew1w3						

		2	.1122893	.1447541	0.78	0.438	-.1714405	.39601
		3	-.0413248	.1588826	-0.26	0.795	-.3527359	.27008
	timew1w3		0	(omitted)				
w1WRATtotalcent42			.2362113	.0241262	9.79	0.000	.1889232	.28349
c.timew1w3#c.w1WRATtotalcent42			-.0050407	.0051501	-0.98	0.328	-.0151354	.0056
	timew1w3		0	(omitted)				
1.w1smoke			-.1615303	.387406	-0.42	0.677	-.9249519	.60189
w1smoke#c.timew1w3								
1			-.0179231	.0899472	-0.20	0.842	-.195714	.15986
	timew1w3		0	(omitted)				
1.w1currdrugs			-.6392735	.4419075	-1.45	0.148	-1.505758	.22721
w1currdrugs#c.timew1w3								
1			.1131153	.0991869	1.14	0.254	-.0814915	.3077
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			.0308203	.0185838	1.66	0.107	-.0070584	.0686
c.timew1w3#c.w1hei2010_total_scorecent43			-.0041999	.0039536	-1.06	0.290	-.0120281	.00362
	timew1w3		0	(omitted)				
w1BMIcon30			.0027727	.0233858	0.12	0.906	-.0430677	.04861
c.timew1w3#c.w1BMIcon30			-.0018357	.0049637	-0.37	0.712	-.0115647	.00789
	timew1w3		0	(omitted)				
invmillsmms			.0168208	.0103639	1.62	0.105	-.0034921	.03713
c.timew1w3#c.invmillsmms			-.0004545	.0019995	-0.23	0.820	-.0043734	.00346
	timew1w3		0	(omitted)				
w1HCYcenter2p15			.7981906	.5648002	1.41	0.158	-.3088141	1.9051
c.timew1w3#c.w1HCYcenter2p15			-.0441866	.1217062	-0.36	0.717	-.28273	.19433
	w1Folatecenter14p3							
			-.0402065	.0275577	-1.46	0.145	-.094338	.01392
c.timew1w3#c.w1Folatecenter14p3			.0115123	.0057199	2.01	0.044	.0002986	.02272
	c.w1HCYcenter2p15#c.w1Folatecenter14p3							
			-.0923629	.0630172	-1.47	0.143	-.2158758	.031
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3			-.0200126	.0138319	-1.45	0.148	-.0471227	.00709
	_cons		26.48383	.7368946	35.94	0.000	25.0392	27.928

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3513283	.1013651	.1995779	.6184634
sd(_cons)	4.401452	.1299568	4.153971	4.663677
sd(Residual)	3.672552	.1304869	3.425502	3.93742

```

59 .
60 .
61 .
62 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4cobs==1 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs   =    2,339

Group variable: HNDID                Number of groups =    1,391
                                         Obs per group:
                                         min =        1
                                         avg =       1.7
                                         max =       2
                                         Average RVI =     0.0680
                                         Largest FMI =   0.3201
DF adjustment: Large sample          DF:    min =    46.99
                                         avg = 367,523.34
                                         max = 3278177.36
Model F test: Equal FMI             F( 31, 23079.8) =    31.43
                                         Prob > F =    0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.3348031	.0747408	-4.48	0.000	-.4812963 -.18838
		-.0841038	.009276	-9.07	0.000	-.1022845 -.06592
c.timew1w3#c.w1Agecent48		-.0037911	.0020659	-1.84	0.067	-.0078407 .00025
timew1w3		0	(omitted)			
Sex						
Men		-.9634889	.1720872	-5.60	0.000	-1.300775 -.62626
Sex#c.timew1w3						
Men		-.0550497	.0376728	-1.46	0.144	-.1288877 .01878
timew1w3		0	(omitted)			
Race						
AfrAm		-1.189168	.1706957	-6.97	0.000	-1.523799 -.85453
Race#c.timew1w3						
AfrAm		.0212786	.0374761	0.57	0.570	-.0521787 .09473
timew1w3		0	(omitted)			
PovStat						
Below		-.0420746	.1733871	-0.24	0.808	-.3819334 .29778
PovStat#c.timew1w3						
Below		-.0383173	.0369051	-1.04	0.299	-.1106508 .03401
timew1w3		0	(omitted)			
w1edubr						
2		-.1145226	.3389173	-0.34	0.735	-.7789874 .54994
3		.6151915	.3672128	1.68	0.094	-.1046148 1.3349
w1edubr#c.timew1w3						

	2	<b>- .0046222</b>	<b>.0700952</b>	<b>-0.07</b>	<b>0.947</b>	<b>- .1420192</b>	<b>.13277</b>
	3	<b>- .0001738</b>	<b>.0771096</b>	<b>-0.00</b>	<b>0.998</b>	<b>- .1513113</b>	<b>.15096</b>
		<b>timew1w3</b>	<b>0</b>	<b>(omitted)</b>			
		<b>w1WRATtotalcent42</b>	<b>.0988987</b>	<b>.0117042</b>	<b>8.45</b>	<b>0.000</b>	<b>.0759561</b>
		<b>c.timew1w3#c.w1WRATtotalcent42</b>	<b>- .0037272</b>	<b>.0024934</b>	<b>-1.49</b>	<b>0.135</b>	<b>- .0086141</b>
		<b>timew1w3</b>	<b>0</b>	<b>(omitted)</b>			
		<b>1.w1smoke</b>	<b>-.0304984</b>	<b>.2007</b>	<b>-0.15</b>	<b>0.880</b>	<b>- .4307782</b>
		<b>w1smoke#c.timew1w3</b>					
		<b>1</b>	<b>-.0197504</b>	<b>.0461765</b>	<b>-0.43</b>	<b>0.670</b>	<b>- .111905</b>
		<b>timew1w3</b>	<b>0</b>	<b>(omitted)</b>			
		<b>1.w1currdrugs</b>	<b>-.2737086</b>	<b>.2301601</b>	<b>-1.19</b>	<b>0.236</b>	<b>- .72832</b>
		<b>w1currdrugs#c.timew1w3</b>					
		<b>1</b>	<b>-.0228225</b>	<b>.0516105</b>	<b>-0.44</b>	<b>0.659</b>	<b>- .124943</b>
		<b>timew1w3</b>	<b>0</b>	<b>(omitted)</b>			
		<b>w1hei2010_total_scorecent43</b>	<b>.0078523</b>	<b>.008667</b>	<b>0.91</b>	<b>0.370</b>	<b>- .0095836</b>
		<b>c.timew1w3#c.w1hei2010_total_scorecent43</b>	<b>- .0003414</b>	<b>.002013</b>	<b>-0.17</b>	<b>0.866</b>	<b>- .0043539</b>
		<b>timew1w3</b>	<b>0</b>	<b>(omitted)</b>			
		<b>w1BMIcon30</b>	<b>.0240552</b>	<b>.0112792</b>	<b>2.13</b>	<b>0.033</b>	<b>.0019449</b>
		<b>c.timew1w3#c.w1BMIcon30</b>	<b>- .00223</b>	<b>.0024449</b>	<b>-0.91</b>	<b>0.362</b>	<b>- .0070224</b>
		<b>timew1w3</b>	<b>0</b>	<b>(omitted)</b>			
		<b>invmillsmms</b>	<b>.0074387</b>	<b>.0049274</b>	<b>1.51</b>	<b>0.131</b>	<b>- .0022189</b>
		<b>c.timew1w3#c.invmillsmms</b>	<b>- .0004599</b>	<b>.0009446</b>	<b>-0.49</b>	<b>0.626</b>	<b>- .0023112</b>
		<b>timew1w3</b>	<b>0</b>	<b>(omitted)</b>			
		<b>w1HCYcenter2p15</b>	<b>.4756245</b>	<b>.2726264</b>	<b>1.74</b>	<b>0.081</b>	<b>- .0587151</b>
		<b>c.timew1w3#c.w1HCYcenter2p15</b>	<b>.0078754</b>	<b>.0593993</b>	<b>0.13</b>	<b>0.895</b>	<b>- .1085452</b>
		<b>w1Folatecenter14p3</b>	<b>- .0000968</b>	<b>.013193</b>	<b>-0.01</b>	<b>0.994</b>	<b>- .0260015</b>
		<b>c.timew1w3#c.w1Folatecenter14p3</b>	<b>.0017034</b>	<b>.0027345</b>	<b>0.62</b>	<b>0.533</b>	<b>- .0036567</b>
		<b>c.w1HCYcenter2p15#c.w1Folatecenter14p3</b>	<b>- .0455124</b>	<b>.031033</b>	<b>-1.47</b>	<b>0.143</b>	<b>- .1063396</b>
		<b>c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3</b>	<b>.0009378</b>	<b>.0067216</b>	<b>0.14</b>	<b>0.889</b>	<b>- .0122367</b>
		<b>_cons</b>	<b>8.296911</b>	<b>.3551433</b>	<b>23.36</b>	<b>0.000</b>	<b>7.600761</b>
							<b>8.9930</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
<b>HNDID: Independent</b>				
sd(timew1w3)	<b>.0427056</b>	<b>.5045207</b>	<b>3.75e-12</b>	<b>4.86e+08</b>
sd(_cons)	<b>2.010195</b>	<b>.063566</b>	<b>1.889389</b>	<b>2.138725</b>
sd(Residual)	<b>1.818079</b>	<b>.062389</b>	<b>1.69982</b>	<b>1.944565</b>

```

63 .
64 .
65 .
66 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4dobs==1 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs   =  2,751

Group variable: HNDID                Number of groups =  1,443
                                         Obs per group:
                                         min =        1
                                         avg =      1.9
                                         max =        2
                                         Average RVI =  0.0471
                                         Largest FMI =  0.3105
DF adjustment: Large sample          DF:    min =  49.81
                                         avg = 3.50e+08
                                         max = 1.22e+10
Model F test: Equal FMI             F( 31,46261.3) =  28.20
                                         Prob > F =  0.0000

```

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4462929	.1092373	4.09	0.000	.2321864	.66039
w1Agecent48	.1253534	.0135853	9.23	0.000	.0987243	.15198
c.timew1w3#c.w1Agecent48	.0078144	.0028893	2.70	0.007	.0021512	.01347
timew1w3	0	(omitted)				
Sex						
Men	-1.085474	.2512046	-4.32	0.000	-1.577838	-.59311
Sex#c.timew1w3						
Men	.0484915	.0530492	0.91	0.361	-.0554836	.15240
timew1w3	0	(omitted)				
Race						
AfrAm	.4818833	.2459333	1.96	0.050	-.0001568	.96392
Race#c.timew1w3						
AfrAm	.1513401	.0527275	2.87	0.004	.0479939	.25468
timew1w3	0	(omitted)				
PovStat						
Below	.3808924	.2531946	1.50	0.132	-.1153649	.87714
PovStat#c.timew1w3						
Below	.0258731	.0526956	0.49	0.623	-.0774086	.12915
timew1w3	0	(omitted)				
w1edubr						
2	-.7095839	.5031418	-1.41	0.158	-1.69586	.27663
3	-1.622384	.5497211	-2.95	0.003	-2.700158	-.54461
w1edubr#c.timew1w3						

		2	-.1518743	.1031858	-1.47	0.141	-.3541206	.0502
		3	-.1181533	.1127853	-1.05	0.295	-.3392116	.1029
	timew1w3		0	(omitted)				
w1WRATtotalcent42			-.157164	.0172708	-9.10	0.000	-.1910271	-.12330
c.timew1w3#c.w1WRATtotalcent42			-.0045695	.003591	-1.27	0.203	-.0116077	.00246
	timew1w3		0	(omitted)				
1.w1smoke			.3783301	.2743024	1.38	0.169	-.1618827	.91854
w1smoke#c.timew1w3								
1			-.0413587	.0581619	-0.71	0.477	-.1553697	.07265
	timew1w3		0	(omitted)				
1.w1currdrugs			-.1524079	.3663562	-0.42	0.679	-.8883249	.58356
w1currdrugs#c.timew1w3								
1			.0946836	.0709336	1.33	0.182	-.0446187	.23398
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			-.0064265	.0117328	-0.55	0.586	-.0298001	.01694
c.timew1w3#c.w1hei2010_total_scorecent43			-.0031917	.0026712	-1.19	0.234	-.0084714	.00208
	timew1w3		0	(omitted)				
w1BMIcon30			.0081787	.01646	0.50	0.619	-.0240864	.04044
c.timew1w3#c.w1BMIcon30			-.0057597	.0034765	-1.66	0.098	-.0125738	.00105
	timew1w3		0	(omitted)				
invmillsmms			-.0155978	.0076384	-2.04	0.041	-.0305687	-.00062
c.timew1w3#c.invmillsmms								
			.0000373	.001478	0.03	0.980	-.0028595	.0029
	timew1w3		0	(omitted)				
w1HCYcenter2p15			-.0786177	.3995653	-0.20	0.844	-.8617885	.70455
c.timew1w3#c.w1HCYcenter2p15			.1701892	.0838609	2.03	0.042	.0058249	.33455
	w1Folatecenter14p3							
			-.0116809	.0212507	-0.55	0.584	-.0538971	.03053
c.timew1w3#c.w1Folatecenter14p3								
			.0012771	.0039881	0.32	0.749	-.0065394	.00909
c.w1HCYcenter2p15#c.w1Folatecenter14p3								
			-.009657	.0458828	-0.21	0.833	-.0996161	.08030
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3								
	_cons		7.433629	.5286359	14.06	0.000	6.397203	8.4700

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000532	.0077705	3.2e-129	8.8e+119
sd(_cons)	3.165194	.091698	2.990475	3.35012
sd(Residual)	2.922191	.0579276	2.810831	3.037964

```

67 .
68 .
69 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates           Imputations      =       5
Mixed-effects ML regression            Number of obs   =  2,486

Group variable: HNDID                Number of groups =  1,418
                                         Obs per group:
                                         min =        1
                                         avg =      1.8
                                         max =        2
                                         Average RVI =  0.0229
                                         Largest FMI =  0.2054
                                         DF: min = 109.64
                                         avg = 8.31e+07
                                         max = 2.84e+09
DF adjustment: Large sample
Model F test: Equal FMI             F( 31, 186430.9) = 12.92
                                         Prob > F = 0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	<b>-.0330905</b>	.0575633	-0.57	0.565	-.145919 .0797
	w1Agecent48	<b>-.0139197</b>	.0065116	-2.14	0.033	-.0266823 -.00115
c.timew1w3#c.w1Agecent48		<b>-.0028553</b>	.0014791	-1.93	0.054	-.0057542 .0000
	timew1w3	0	(omitted)			
	Sex					
	Men	<b>-.2629076</b>	.1220799	-2.15	0.031	-.5021802 -.0238
Sex#c.timew1w3						
	Men	<b>-.0062859</b>	.027555	-0.23	0.820	-.0602928 .04772
	timew1w3	0	(omitted)			
	Race					
	AfrAm	<b>-.6769505</b>	.1198476	-5.65	0.000	-.9118482 -.44205
Race#c.timew1w3						
	AfrAm	<b>.0404886</b>	.0273449	1.48	0.139	-.0131064 .09408
	timew1w3	0	(omitted)			
	PovStat					
	Below	<b>-.1533672</b>	.1223752	-1.25	0.210	-.3932187 .08648
PovStat#c.timew1w3						
	Below	<b>-.0420861</b>	.0273688	-1.54	0.124	-.0957283 .0115
	timew1w3	0	(omitted)			
	w1edubr					
	2	<b>.3794126</b>	.2447657	1.55	0.121	-.1003289 .85915
	3	<b>.5611093</b>	.26566	2.11	0.035	.0403909 1.0818
w1edubr#c.timew1w3						
	2	<b>-.0118735</b>	.0547592	-0.22	0.828	-.119208 .0954

	3	<b>- .0365809</b>	<b>.0592573</b>	<b>-0.62</b>	<b>0.537</b>	<b>-.1527264</b>	<b>.07956</b>
	timew1w3	<b>0</b>	(omitted)				
w1WRATtotalcent42		<b>.0737871</b>	<b>.0083101</b>	<b>8.88</b>	<b>0.000</b>	<b>.0574993</b>	<b>.09007</b>
c.timew1w3#c.w1WRATtotalcent42		<b>.0036133</b>	<b>.0019016</b>	<b>1.90</b>	<b>0.057</b>	<b>-.0001138</b>	<b>.00734</b>
	timew1w3	<b>0</b>	(omitted)				
1.w1smoke		<b>-.1612815</b>	<b>.137141</b>	<b>-1.18</b>	<b>0.241</b>	<b>-.4321545</b>	<b>.10959</b>
	w1smoke#c.timew1w3						
1		<b>-.0237286</b>	<b>.0301761</b>	<b>-0.79</b>	<b>0.432</b>	<b>-.0828907</b>	<b>.03543</b>
	timew1w3	<b>0</b>	(omitted)				
1.w1currdrugs		<b>.2839373</b>	<b>.1524504</b>	<b>1.86</b>	<b>0.063</b>	<b>-.0149406</b>	<b>.58281</b>
	w1currdrugs#c.timew1w3						
1		<b>-.0257459</b>	<b>.035138</b>	<b>-0.73</b>	<b>0.464</b>	<b>-.0946172</b>	<b>.04312</b>
	timew1w3	<b>0</b>	(omitted)				
w1hei2010_total_scorecent43		<b>-.0037377</b>	<b>.0056928</b>	<b>-0.66</b>	<b>0.513</b>	<b>-.0150199</b>	<b>.00754</b>
c.timew1w3#c.w1hei2010_total_scorecent43		<b>.0000308</b>	<b>.0012605</b>	<b>0.02</b>	<b>0.981</b>	<b>-.0024398</b>	<b>.00256</b>
	timew1w3	<b>0</b>	(omitted)				
w1BMIcontent30		<b>-.0227173</b>	<b>.0080586</b>	<b>-2.82</b>	<b>0.005</b>	<b>-.0385136</b>	<b>-.00692</b>
c.timew1w3#c.w1BMIcontent30		<b>-.0001088</b>	<b>.0017999</b>	<b>-0.06</b>	<b>0.952</b>	<b>-.0036365</b>	<b>.00341</b>
	timew1w3	<b>0</b>	(omitted)				
invmillsmms		<b>.0019864</b>	<b>.0035388</b>	<b>0.56</b>	<b>0.575</b>	<b>-.0049494</b>	<b>.00892</b>
c.timew1w3#c.invmillsmms		<b>-.0006511</b>	<b>.0007307</b>	<b>-0.89</b>	<b>0.373</b>	<b>-.0020833</b>	<b>.00078</b>
	timew1w3	<b>0</b>	(omitted)				
w1HCYcenter2p15		<b>-.104903</b>	<b>.1965678</b>	<b>-0.53</b>	<b>0.594</b>	<b>-.4901719</b>	<b>.28036</b>
c.timew1w3#c.w1HCYcenter2p15		<b>-.00076</b>	<b>.0444986</b>	<b>-0.02</b>	<b>0.986</b>	<b>-.0879756</b>	<b>.08645</b>
	w1Folatecenter14p3						
		<b>-.0037278</b>	<b>.0094197</b>	<b>-0.40</b>	<b>0.692</b>	<b>-.0222241</b>	<b>.01476</b>
c.timew1w3#c.w1Folatecenter14p3		<b>.000556</b>	<b>.002058</b>	<b>0.27</b>	<b>0.787</b>	<b>-.003478</b>	<b>.004</b>
	c.w1HCYcenter2p15#c.w1Folatecenter14p3						
		<b>.030848</b>	<b>.0226295</b>	<b>1.36</b>	<b>0.173</b>	<b>-.013507</b>	<b>.0752</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		<b>-.0048786</b>	<b>.0050911</b>	<b>-0.96</b>	<b>0.338</b>	<b>-.0148579</b>	<b>.00516</b>
	_cons	<b>6.868525</b>	<b>.2553297</b>	<b>26.90</b>	<b>0.000</b>	<b>6.368075</b>	<b>7.3689</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
<b>HNDID: Independent</b>				
sd(timew1w3)	<b>.09966</b>	<b>.0403976</b>	<b>.045028</b>	<b>.2205764</b>
sd(_cons)	<b>1.397775</b>	<b>.0461982</b>	<b>1.310099</b>	<b>1.491319</b>
sd(Residual)	<b>1.377623</b>	<b>.0441907</b>	<b>1.293677</b>	<b>1.467016</b>

70 .

```
71 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4fobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations = 5  
Number of obs = 2,773

Group variable: HNDID

Number of groups = 1,446  
Obs per group:

min	=	1
avg	=	1.9
max	=	2

Average RVI = 0.0495  
Largest FMI = 0.2675

DF adjustment: Large sample

DF: min = 66.26  
avg = 8948784.75  
max = 2.81e+08

Model F test: Equal FMI

F( 31, 41821.6) = 12.18  
Prob > F = 0.0000

	FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.0032342	.1157792	-0.03	0.978	-.2302899 .22382
c.timew1w3#c.w1Agecent48		-.0863343	.0154113	-5.60	0.000	-.1165407 -.05612
timew1w3						
Sex						
Men		-.0019321	.0029911	-0.65	0.518	-.0077946 .00393
timew1w3		0	(omitted)			
Sex#c.timew1w3						
Men		1.254782	.2847709	4.41	0.000	.6966402 1.8129
timew1w3						
Race						
AfrAm		-.0187516	.0553159	-0.34	0.735	-.127169 .08966
Race#c.timew1w3						
AfrAm		-1.267422	.2803443	-4.52	0.000	-1.816891 -.71795
timew1w3						
PovStat						
Below		-.0340129	.0549882	-0.62	0.536	-.1417901 .07376
timew1w3		0	(omitted)			
PovStat#c.timew1w3						
Below		-.4928611	.2891224	-1.70	0.088	-1.059546 .07382
timew1w3						
w1edubr						
2		.0099999	.0551321	0.18	0.856	-.0980579 .11805
3		-.3127554	.5720691	-0.55	0.585	-1.434054 .80854
w1edubr#c.timew1w3						
2		.940786	.6198695	1.52	0.129	-.2741915 2.1557
3		-.0903375	.1102822	0.82	0.413	-.1260187 .30665
		.0563866	.1212142	0.47	0.642	-.1814525 .29422

	timew1w3	0	(omitted)					
w1WRATtotalcent42	.15967	.0192134	8.31	0.000	.1220123	.19732		
c.timew1w3#c.w1WRATtotalcent42	.0027721	.0037373	0.74	0.458	-.004553	.01009		
	timew1w3	0	(omitted)					
1.w1smoke	-.475423	.3293894	-1.44	0.154	-1.133023	.18217		
w1smoke#c.timew1w3								
1	.0336039	.0623717	0.54	0.590	-.0888856	.15609		
	timew1w3	0	(omitted)					
1.w1currdrugs	.289394	.3805709	0.76	0.448	-.4638152	1.042		
w1currdrugs#c.timew1w3								
1	-.0261032	.0715377	-0.36	0.715	-.1663695	.1141		
	timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	.0259946	.0128639	2.02	0.047	.0003823	.05166		
c.timew1w3#c.w1hei2010_total_scorecent43	-.0032619	.0025824	-1.26	0.207	-.0083252	.00180		
	timew1w3	0	(omitted)					
w1BMIcon30	.0240902	.0189204	1.27	0.203	-.0130085	.06118		
c.timew1w3#c.w1BMIcon30	.001984	.0036097	0.55	0.583	-.005091	.0090		
	timew1w3	0	(omitted)					
invmillsmms	.0084176	.0088344	0.95	0.341	-.0088975	.02573		
c.timew1w3#c.invmillsmms	-.0013966	.0015761	-0.89	0.376	-.0044857	.00169		
	timew1w3	0	(omitted)					
w1HCYcenter2p15	.1623287	.4518372	0.36	0.719	-.7232569	1.0479		
c.timew1w3#c.w1HCYcenter2p15	-.0262915	.0872736	-0.30	0.763	-.1973452	.14476		
	w1Folatecenter14p3	.0320471	.0214551	1.49	0.135	-.0100047	.07405	
c.timew1w3#c.w1Folatecenter14p3	-.00016	.0041746	-0.04	0.969	-.0083429	.00802		
c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0373153	.051323	-0.73	0.467	-.137909	.06327		
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0140718	.0100445	1.40	0.161	-.0056155	.03375		
	_cons	19.21801	.6014487	31.95	0.000	18.03889	20.397	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1109385	.1868813	.004085	3.01282
sd(_cons)	3.868319	.0987051	3.679618	4.066696
sd(Residual)	3.021232	.0945567	2.841473	3.212362

72 .

```
73 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4gobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations = 5  
Number of obs = 2,717

Group variable: HNDID

Number of groups = 1,443  
Obs per group:

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

Average RVI = 0.0682  
Largest FMI = 0.4695

DF adjustment: Large sample

DF: min = 22.26  
avg = 288,578.82  
max = 4621927.29

Model F test: Equal FMI

F( 31, 23114.9) = 15.98  
Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0458504	.0454856	1.01	0.313	.-043302	.13500
w1Agecent48	-.0096034	.0059697	-1.61	0.108	-.021304	.00209
c.timew1w3#c.w1Agecent48	-.0030632	.0011898	-2.57	0.010	-.0053953	-.00073
timew1w3	0 (omitted)					
Sex						
Men	.200847	.1110822	1.81	0.071	-.0168723	.41856
Sex#c.timew1w3						
Men	-.0365357	.0220315	-1.66	0.097	-.0797168	.00664
timew1w3	0 (omitted)					
Race						
AfrAm	-.2656857	.1097669	-2.42	0.016	-.4808671	-.05056
Race#c.timew1w3						
AfrAm	-.0147207	.0218075	-0.68	0.500	-.0574631	.02802
timew1w3	0 (omitted)					
PovStat						
Below	-.1096424	.1123148	-0.98	0.329	-.3297956	.11051
PovStat#c.timew1w3						
Below	-.0234507	.0219148	-1.07	0.285	-.0664036	.01956
timew1w3	0 (omitted)					
w1edubr						
2	-.0839451	.223005	-0.38	0.707	-.5210425	.35315
3	.1991765	.2416039	0.82	0.410	-.2743884	.67274
w1edubr#c.timew1w3						
2	-.0041127	.0428264	-0.10	0.923	-.0880511	.07982
3	-.0220823	.0469182	-0.47	0.638	-.1140428	.06987

	timew1w3	0	(omitted)				
w1WRATtotalcent42	.1130533	.007525	15.02	0.000	.0983034	.12786	
c.timew1w3#c.w1WRATtotalcent42	.0002274	.0014914	0.15	0.879	-.0026957	.00315	
	timew1w3	0	(omitted)				
1.w1smoke	.1781082	.1221925	1.46	0.147	-.0635258	.41974	
w1smoke#c.timew1w3							
1	-.0154715	.0246656	-0.63	0.531	-.0638937	.03295	
	timew1w3	0	(omitted)				
1.w1currdrugs	.4009635	.1766692	2.27	0.033	.0348221	.76716	
w1currdrugs#c.timew1w3							
1	-.0094998	.0298707	-0.32	0.751	-.0682576	.04925	
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	.0015607	.0048202	0.32	0.747	-.0079567	.01107	
c.timew1w3#c.w1hei2010_total_scorecent43	.0001322	.0011103	0.12	0.905	-.0020643	.00232	
	timew1w3	0	(omitted)				
w1BMIcon30	-.0104268	.0073998	-1.41	0.159	-.024941	.00408	
c.timew1w3#c.w1BMIcon30							
	timew1w3	0	(omitted)				
invmillsmms	.005748	.0034135	1.68	0.092	-.0009424	.01243	
c.timew1w3#c.invmillsmms							
	timew1w3	0	(omitted)				
w1HCYcenter2p15	-.0174718	.1769494	-0.10	0.921	-.3642927	.3293	
c.timew1w3#c.w1HCYcenter2p15							
	timew1w3	0	(omitted)				
w1Folatecenter14p3	.0067112	.008587	0.78	0.435	-.0101352	.02355	
c.timew1w3#c.w1Folatecenter14p3							
	timew1w3	0	(omitted)				
w1HCYcenter2p15#c.w1Folatecenter14p3	-.0009585	.0016645	-0.58	0.565	-.004221	.0023	
c.w1HCYcenter2p15#c.w1Folatecenter14p3							
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3							
	_cons	7.165438	.2329514	30.76	0.000	6.708846	7.622

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
<b>HNDID: Independent</b>			
sd(timew1w3)	.0905872	.0355557	.0419725 .1955102
sd(_cons)	1.514513	.0391666	1.439659 1.593258
sd(Residual)	1.15588	.0374594	1.084743 1.231681

74 .

```
75 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4hobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates  
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	2,704
Group variable: HNDID	Number of groups	=	1,444
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	0.0513
	Largest FMI	=	0.3107
DF adjustment: Large sample	DF: min	=	49.77
	avg	=	2.04e+08
	max	=	7.09e+09
Model F test: Equal FMI	F( 31, 39091.7)	=	22.59
	Prob > F	=	0.0000

	DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	<b>-.0298913</b>	<b>.0472576</b>	<b>-0.63</b>	<b>0.527</b>	<b>-.1225303</b>	<b>.06274</b>
w1Agecent48	<b>-.018362</b>	<b>.0057569</b>	<b>-3.19</b>	<b>0.001</b>	<b>-.0296455</b>	<b>-.00707</b>
c.timew1w3#c.w1Agecent48	<b>-.0007426</b>	<b>.0012237</b>	<b>-0.61</b>	<b>0.544</b>	<b>-.0031409</b>	<b>.00165</b>
timew1w3	0 (omitted)					
Sex						
Men	<b>-.0304765</b>	<b>.1069278</b>	<b>-0.29</b>	<b>0.776</b>	<b>-.2400549</b>	<b>.17910</b>
Sex#c.timew1w3						
Men	<b>-.0235675</b>	<b>.0227373</b>	<b>-1.04</b>	<b>0.300</b>	<b>-.0681321</b>	<b>.02099</b>
timew1w3	0 (omitted)					
Race						
AfrAm	<b>-.5279549</b>	<b>.1046121</b>	<b>-5.05</b>	<b>0.000</b>	<b>-.7329944</b>	<b>-.32291</b>
Race#c.timew1w3						
AfrAm	<b>-.0257906</b>	<b>.0225025</b>	<b>-1.15</b>	<b>0.252</b>	<b>-.0698953</b>	<b>.01831</b>
timew1w3	0 (omitted)					
PovStat						
Below	<b>-.1207454</b>	<b>.1079175</b>	<b>-1.12</b>	<b>0.263</b>	<b>-.3322708</b>	<b>.090</b>
PovStat#c.timew1w3						
Below	<b>-.0009172</b>	<b>.0225502</b>	<b>-0.04</b>	<b>0.968</b>	<b>-.045115</b>	<b>.04328</b>
timew1w3	0 (omitted)					
w1edubr						
2	<b>-.2002601</b>	<b>.2147054</b>	<b>-0.93</b>	<b>0.351</b>	<b>-.6210899</b>	<b>.22056</b>
3	<b>.1512493</b>	<b>.2330447</b>	<b>0.65</b>	<b>0.516</b>	<b>-.3055369</b>	<b>.60803</b>
w1edubr#c.timew1w3						
2	<b>.0533257</b>	<b>.0441223</b>	<b>1.21</b>	<b>0.227</b>	<b>-.0331528</b>	<b>.13986</b>
3	<b>.0224108</b>	<b>.0482828</b>	<b>0.46</b>	<b>0.643</b>	<b>-.0722225</b>	<b>.11704</b>

	timew1w3	0	(omitted)				
w1WRATtotalcent42	.1235042	.0072265	17.09	0.000	.1093405	.13766	
c.timew1w3#c.w1WRATtotalcent42	-.0017762	.0015464	-1.15	0.251	-.0048072	.00125	
	timew1w3	0	(omitted)				
1.w1smoke	-.0198378	.1239876	-0.16	0.873	-.2667045	.22702	
w1smoke#c.timew1w3							
1	-.0016904	.0277307	-0.06	0.952	-.0568502	.05348	
	timew1w3	0	(omitted)				
1.w1currdrugs	.0810118	.1426085	0.57	0.571	-.2004248	.36244	
w1currdrugs#c.timew1w3							
1	.0285582	.0301321	0.95	0.344	-.0305922	.08776	
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	-.0014706	.0051637	-0.28	0.777	-.0118433	.00890	
c.timew1w3#c.w1hei2010_total_scorecent43	.0012215	.001189	1.03	0.308	-.0011506	.00359	
	timew1w3	0	(omitted)				
w1BMIcon30	-.0055506	.0070802	-0.78	0.433	-.0194339	.00833	
c.timew1w3#c.w1BMIcon30							
	timew1w3	0	(omitted)				
invmillsmms	.0050016	.0032799	1.52	0.127	-.0014269	.01143	
c.timew1w3#c.invmillsmms							
	timew1w3	0	(omitted)				
w1HCYcenter2p15	-.0010964	.1694391	-0.01	0.995	-.3331911	.33099	
c.timew1w3#c.w1HCYcenter2p15	.0015306	.0361725	0.04	0.966	-.0693662	.07242	
	w1Folatecenter14p3						
	timew1w3	0	(omitted)				
w1HCYcenter2p15	.0089378	.0082693	1.08	0.280	-.0072814	.02515	
c.timew1w3#c.w1Folatecenter14p3							
	timew1w3	0	(omitted)				
w1Folatecenter14p3	-.0012496	.0017178	-0.73	0.467	-.0046166	.00211	
c.w1HCYcenter2p15#c.w1Folatecenter14p3							
	timew1w3	0	(omitted)				
w1HCYcenter2p15#c.w1Folatecenter14p3	.0000994	.0194083	0.01	0.996	-.0379404	.03813	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3							
	_cons	5.959634	.2271929	26.23	0.000	5.5142	6.4056

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.35e-06	.0003544	7.6e-231	2.4e+218
sd(_cons)	1.346556	.0388915	1.272447	1.424981
sd(Residual)	1.236783	.0247275	1.189255	1.286211

76 .

```
77 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4iobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates  
Mixed-effects ML regression

	Imputations	=	5
	Number of obs	=	2,767
Group variable: HNDID	Number of groups	=	1,445
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	0.0339
	Largest FMI	=	0.1907
DF adjustment: Large sample	DF: min	=	126.30
	avg	=	3.95e+08
	max	=	1.38e+10
Model F test: Equal FMI	F( 31, 86515.3)	=	7.19
	Prob > F	=	0.0000

	clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.0669581	.0363809	-1.84	0.066	-.1382729 .00435
w1Agecent48		-.0036151	.0035832	-1.01	0.313	-.010638 .00348
c.timew1w3#c.w1Agecent48		-.0016995	.0009428	-1.80	0.071	-.0035472 .00014
timew1w3		0	(omitted)			
Sex						
Men		.0698624	.0663322	1.05	0.292	-.0601465 .19987
Sex#c.timew1w3						
Men		.0190746	.0174251	1.09	0.274	-.015078 .05322
timew1w3		0	(omitted)			
Race						
AfrAm		-.2828736	.0650683	-4.35	0.000	-.4104052 -.15534
Race#c.timew1w3						
AfrAm		.0122865	.0172326	0.71	0.476	-.0214888 .04600
timew1w3		0	(omitted)			
PovStat						
Below		.0417716	.067334	0.62	0.535	-.0902015 .17374
PovStat#c.timew1w3						
Below		-.003761	.0173594	-0.22	0.828	-.0377848 .03028
timew1w3		0	(omitted)			
w1edubr						
2		-.021555	.1367043	-0.16	0.875	-.2895828 .24647
3		.1681847	.1475817	1.14	0.254	-.1211248 .45749
w1edubr#c.timew1w3						
2		.0426801	.0344843	1.24	0.216	-.0249165 .11027
3		.0569846	.0377056	1.51	0.131	-.0169265 .13089

	timew1w3	0	(omitted)					
w1WRATtotalcent42	.0293617	.0045488	6.45	0.000	.0204454	.03827		
c.timew1w3#c.w1WRATtotalcent42	-.0012876	.0011937	-1.08	0.281	-.0036279	.00105		
	timew1w3	0	(omitted)					
1.w1smoke	-.0267715	.0753648	-0.36	0.723	-.1752946	.12175		
w1smoke#c.timew1w3								
1	.008976	.0198522	0.45	0.651	-.0300725	.04802		
	timew1w3	0	(omitted)					
1.w1currdrugs	.2915184	.0928413	3.14	0.002	.1077924	.47524		
w1currdrugs#c.timew1w3								
1	-.054596	.0227008	-2.41	0.016	-.0991207	-.01007		
	timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	.0015202	.0030214	0.50	0.615	-.0044186	.00745		
c.timew1w3#c.w1hei2010_total_scorecent43	.0005097	.0008487	0.60	0.549	-.0011631	.00218		
	timew1w3	0	(omitted)					
w1BMIcon30	-.0035273	.0043664	-0.81	0.419	-.0120854	.00503		
c.timew1w3#c.w1BMIcon30	.0002033	.0011386	0.18	0.858	-.0020283	.00243		
	timew1w3	0	(omitted)					
invmillsmms	.0002671	.0020709	0.13	0.897	-.0037919	.0043		
c.timew1w3#c.invmillsmms	-.0002097	.0004967	-0.42	0.673	-.0011832	.00076		
	timew1w3	0	(omitted)					
w1HCYcenter2p15	.0210101	.106008	0.20	0.843	-.1867636	.22878		
c.timew1w3#c.w1HCYcenter2p15	-.0565432	.0277296	-2.04	0.041	-.1108921	-.00219		
	w1Folatecenter14p3							
	.0076805	.0051596	1.49	0.137	-.0024359	.01779		
c.timew1w3#c.w1Folatecenter14p3	-.0007592	.0013324	-0.57	0.569	-.0033707	.00185		
	c.w1HCYcenter2p15#c.w1Folatecenter14p3							
	.0260648	.012144	2.15	0.032	.0022615	.04986		
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0057058	.0032224	-1.77	0.077	-.0120217	.00061		
	_cons	8.82649	.1421782	62.08	0.000	8.547754	9.1052	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
<b>HNDID: Independent</b>			
sd(timew1w3)	.0365783	.0388543	.0045609 .2933539
sd(_cons)	.6229377	.0307243	.5655381 .6861631
sd(Residual)	.965559	.0245709	.9185821 1.014938

78 .

```
79. 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.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4jobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates  
Mixed-effects ML regression

	Imputations =	5
	Number of obs =	2,701
Group variable: HNDID	Number of groups =	1,428
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
DF adjustment: Large sample	Average RVI =	0.0348
	Largest FMI =	0.3282
	DF: min =	44.79
	avg =	1.28e+07
	max =	4.05e+08
Model F test: Equal FMI	F( 31, 81874.4) =	15.24
	Prob > F =	0.0000

	LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.013611	.009632	1.41	0.158	-.0052703	.03249
w1Agecent48	.0103379	.0011059	9.35	0.000	.0081705	.01256
c.timew1w3#c.w1Agecent48	.0007084	.0002486	2.85	0.004	.0002212	.00119
timew1w3	0 (omitted)					
Sex						
Men	.0922122	.02054	4.49	0.000	.0519545	.13246
Sex#c.timew1w3						
Men	.0005538	.0045997	0.12	0.904	-.0084615	.00956
timew1w3	0 (omitted)					
Race						
AfrAm	.1514983	.0200583	7.55	0.000	.1121846	.19081
Race#c.timew1w3						
AfrAm	-.001616	.0045148	-0.36	0.720	-.0104648	.00723
timew1w3	0 (omitted)					
PovStat						
Below	.0640912	.0207286	3.09	0.002	.0234639	.10471
PovStat#c.timew1w3						
Below	.0012193	.0045558	0.27	0.789	-.0077099	.01014
timew1w3	0 (omitted)					
w1edubr						
2	-.0645843	.0426103	-1.52	0.130	-.1481534	.01898
3	-.060429	.0460734	-1.31	0.190	-.150793	.02993
w1edubr#c.timew1w3						
2	-.0074957	.0091418	-0.82	0.412	-.0254178	.01042
3	-.01066	.0100054	-1.07	0.287	-.0302771	.00895

	timew1w3	0	(omitted)					
w1WRATtotalcent42		<b>- .0077632</b>	<b>.0014164</b>	<b>-5.48</b>	<b>0.000</b>	<b>- .0105392</b>	<b>- .00498</b>	
c.timew1w3#c.w1WRATtotalcent42		<b>- .0005193</b>	<b>.0003152</b>	<b>-1.65</b>	<b>0.099</b>	<b>- .0011371</b>	<b>.00009</b>	
	timew1w3	0	(omitted)					
1.w1smoke		<b>- .0006985</b>	<b>.0232627</b>	<b>-0.03</b>	<b>0.976</b>	<b>- .0466997</b>	<b>.04530</b>	
w1smoke#c.timew1w3								
1		<b>.0036798</b>	<b>.0051125</b>	<b>0.72</b>	<b>0.472</b>	<b>- .0063492</b>	<b>.01370</b>	
	timew1w3	0	(omitted)					
1.w1currdrugs		<b>.0539874</b>	<b>.0269866</b>	<b>2.00</b>	<b>0.046</b>	<b>.0008819</b>	<b>.10709</b>	
w1currdrugs#c.timew1w3								
1		<b>- .0055874</b>	<b>.0060245</b>	<b>-0.93</b>	<b>0.354</b>	<b>- .0174064</b>	<b>.00623</b>	
	timew1w3	0	(omitted)					
w1hei2010_total_scorecent43		<b>.0001462</b>	<b>.0010145</b>	<b>0.14</b>	<b>0.886</b>	<b>- .0018974</b>	<b>.00218</b>	
c.timew1w3#c.w1hei2010_total_scorecent43		<b>.0001256</b>	<b>.000235</b>	<b>0.53</b>	<b>0.594</b>	<b>- .0003407</b>	<b>.00059</b>	
	timew1w3	0	(omitted)					
w1BMIcon30		<b>.0022551</b>	<b>.0013422</b>	<b>1.68</b>	<b>0.093</b>	<b>- .0003755</b>	<b>.00488</b>	
c.timew1w3#c.w1BMIcon30		<b>- .0003399</b>	<b>.0002972</b>	<b>-1.14</b>	<b>0.253</b>	<b>- .0009225</b>	<b>.00024</b>	
	timew1w3	0	(omitted)					
invmillsmms		<b>.0005017</b>	<b>.000626</b>	<b>0.80</b>	<b>0.423</b>	<b>- .0007253</b>	<b>.00172</b>	
c.timew1w3#c.invmillsmms		<b>- .0001486</b>	<b>.0001278</b>	<b>-1.16</b>	<b>0.245</b>	<b>- .0003991</b>	<b>.00010</b>	
	timew1w3	0	(omitted)					
w1HCYcenter2p15		<b>.0643186</b>	<b>.0330576</b>	<b>1.95</b>	<b>0.052</b>	<b>- .0004735</b>	<b>.12911</b>	
c.timew1w3#c.w1HCYcenter2p15		<b>- .0057941</b>	<b>.0074402</b>	<b>-0.78</b>	<b>0.436</b>	<b>- .020377</b>	<b>.00878</b>	
	w1Folatecenter14p3							
		<b>- .0012648</b>	<b>.0015832</b>	<b>-0.80</b>	<b>0.424</b>	<b>- .0043679</b>	<b>.00183</b>	
c.timew1w3#c.w1Folatecenter14p3		<b>.0000363</b>	<b>.0003589</b>	<b>0.10</b>	<b>0.919</b>	<b>- .0006676</b>	<b>.00074</b>	
	c.w1HCYcenter2p15#c.w1Folatecenter14p3							
		<b>- .0068006</b>	<b>.0039889</b>	<b>-1.70</b>	<b>0.088</b>	<b>- .0146197</b>	<b>.00101</b>	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		<b>.0030839</b>	<b>.0009222</b>	<b>3.34</b>	<b>0.001</b>	<b>.0012765</b>	<b>.00489</b>	
	_cons	<b>3.358314</b>	<b>.0443907</b>	<b>75.65</b>	<b>0.000</b>	<b>3.27126</b>	<b>3.4455</b>	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	<b>.0225077</b>	<b>.0059414</b>	<b>.0134164</b>
sd(_cons)	<b>.2562744</b>	<b>.0077473</b>	<b>.2415311</b>
sd(Residual)	<b>.2365574</b>	<b>.0076222</b>	<b>.2220801</b>
			<b>.2519785</b>

80 .  
81 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Pc  
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010\_total\_scorecent43 c.timew1w3##c.w1BMIcent  
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
> if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations = 5  
Number of obs = 2,609

Group variable: HNDID

Number of groups = 1,414  
Obs per group:  
min = 1  
avg = 1.8  
max = 2

Average RVI = 0.0511  
Largest FMI = 0.2961

DF adjustment: Large sample

DF: min = 54.56  
avg = 1.27e+13  
max = 4.46e+14

Model F test: Equal FMI

F( 31, 39264.9) = 24.01  
Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0106023	.0146064	0.73	0.468	.0180316	.03923
w1Agecent48	.0153268	.0017773	8.62	0.000	.0118432	.01881
c.timew1w3#c.w1Agecent48	.0004529	.0003712	1.22	0.222	-.0002747	.00118
timew1w3	0 (omitted)					
Sex						
Men	.0490717	.0329609	1.49	0.137	-.0155306	.1136
Sex#c.timew1w3						
Men	-.0048654	.0068568	-0.71	0.478	-.0183046	.00857
timew1w3	0 (omitted)					
Race						
AfrAm	.3075	.0322068	9.55	0.000	.2443754	.37062
Race#c.timew1w3						
AfrAm	.0005598	.0067916	0.08	0.934	-.0127516	.01387
timew1w3	0 (omitted)					
PovStat						
Below	.1308757	.0333763	3.92	0.000	.0654583	.19629
PovStat#c.timew1w3						
Below	.0012217	.006872	0.18	0.859	-.0122472	.01469
timew1w3	0 (omitted)					
w1edubr						
2	-.1035792	.0674099	-1.54	0.124	-.2357129	.02855
3	-.2023751	.0723313	-2.80	0.005	-.3441434	-.06066
w1edubr#c.timew1w3						
2	-.0074643	.0138198	-0.54	0.589	-.034552	.01962
3	-.008407	.0149934	-0.56	0.575	-.0377957	.02098

timew1w3	0	(omitted)					
w1WRATtotalcent42	-.0265585	.0022946	-11.57	0.000	-.0310559	-.0220	
c.timew1w3#c.w1WRATtotalcent42	-.0002618	.0004943	-0.53	0.596	-.0012306	.00070	
timew1w3	0	(omitted)					
1.w1smoke	.0071101	.0376739	0.19	0.851	-.067668	.08188	
w1smoke#c.timew1w3							
1	.0092258	.0080033	1.15	0.250	-.0065352	.02498	
timew1w3	0	(omitted)					
1.w1currdrugs	-.0078897	.0445578	-0.18	0.860	-.0961166	.08033	
w1currdrugs#c.timew1w3							
1	-.0037572	.0093582	-0.40	0.688	-.0221825	.01466	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	.000373	.0014638	0.25	0.799	-.0025191	.00326	
c.timew1w3#c.w1hei2010_total_scorecent43	-.0001114	.0003735	-0.30	0.767	-.00086	.00063	
timew1w3	0	(omitted)					
w1BMIcon30	.0017348	.0021747	0.80	0.425	-.0025287	.00599	
c.timew1w3#c.w1BMIcon30	-.00058	.0004478	-1.30	0.195	-.0014578	.00029	
timew1w3	0	(omitted)					
invmillsmms	-.002249	.0010053	-2.24	0.025	-.0042193	-.00027	
c.timew1w3#c.invmillsmms	-.0003742	.000482	-0.78	0.438	-.0013189	.00057	
timew1w3	0	(omitted)					
w1HCYcenter2p15	.0810087	.0531457	1.52	0.127	-.0231571	.18511	
c.timew1w3#c.w1HCYcenter2p15	.0118539	.0109488	1.08	0.279	-.0096054	.03331	
w1Folatecenter14p3	.0026638	.002638	1.01	0.313	-.0025185	.00784	
c.timew1w3#c.w1Folatecenter14p3	.0001572	.0005281	0.30	0.766	-.000878	.00119	
c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0040469	.0064715	0.63	0.532	-.0086484	.01674	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0001653	.001333	-0.12	0.901	-.002778	.00244	
_cons	4.48889	.070348	63.81	0.000	4.350994	4.6267	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	4.04e-07	.0001369	1.3e-295	1.2e+282
sd(_cons)	.4273357	.0125322	.4034656	.4526179
sd(Residual)	.3611871	.0077181	.3463724	.3766355

```

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

85 .
86 .
87 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
88 .
89 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> > c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates  
 Mixed-effects ML regression

Group variable: HNDID	Number of imputations = 5
	Number of obs = 2,653
	Number of groups = 1,430
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0400
	Largest FMI = 0.3100
DF adjustment: Large sample	DF: min = 49.96
	avg = 4.50e+12
	max = 2.29e+14
Model F test: Equal FMI	F( 47, 107538.7) = 23.49
	Prob > F = 0.0000

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0998401	.057138	1.75	0.081	-.01218	.21188
w1Agecent48	-.020364	.0053486	-3.81	0.000	-.0308486	-.00987
c.timew1w3#c.w1Agecent48	-.0030896	.0013237	-2.33	0.020	-.0056843	-.00049
timew1w3	0 (omitted)					
Sex						
Men	-.3557504	.0930921	-3.82	0.000	-.5382082	-.17329
Sex#c.timew1w3						
Men	.0220288	.0231751	0.95	0.342	-.0233973	.06745
timew1w3	0 (omitted)					
Race						
AfrAm	-.2358102	.0926104	-2.55	0.011	-.4173636	-.05425
Race#c.timew1w3						
AfrAm	-.0180286	.0232756	-0.77	0.439	-.0636523	.02759
timew1w3	0 (omitted)					
PovStat						
Below	-.0155007	.0935235	-0.17	0.868	-.1988059	.16786
PovStat#c.timew1w3						
Below	-.0323876	.0227929	-1.42	0.155	-.0770609	.01228

	timew1w3	0	(omitted)				
w1edubr							
2	.5308378	.1841896	2.88	0.004	.1698062	.89186	
3	.7015751	.2008964	3.49	0.000	.3077651	1.0953	
w1edubr#c.timew1w3							
2	-.0642781	.0468278	-1.37	0.170	-.1560802	.0275	
3	-.0612203	.0505569	-1.21	0.226	-.1603406	.03	
timew1w3	0	(omitted)					
w1WRATtotalcent42	.1434328	.0063178	22.70	0.000	.1310489	.15581	
c.timew1w3#c.w1WRATtotalcent42	-.0069132	.0017331	-3.99	0.000	-.0103106	-.00351	
timew1w3	0	(omitted)					
1.w1smoke	.0550986	.1008069	0.55	0.585	-.1430018	.25319	
w1smoke#c.timew1w3							
1	-.0550687	.0248906	-2.21	0.027	-.1038545	-.00628	
timew1w3	0	(omitted)					
1.w1currdrugs	-.0512545	.1274982	-0.40	0.688	-.3038217	.20131	
w1currdrugs#c.timew1w3							
1	.0153168	.0305669	0.50	0.617	-.044786	.07541	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.0051941	.0045484	-1.14	0.258	-.014306	.00391	
c.timew1w3#c.w1hei2010_total_scorecent43	.0005998	.0012239	0.49	0.626	-.0018585	.00305	
timew1w3	0	(omitted)					
w1BMIcon30	-.0046536	.0064977	-0.72	0.474	-.0173913	.00808	
c.timew1w3#c.w1BMIcon30	-.0000805	.001575	-0.05	0.959	-.0031675	.00300	
timew1w3	0	(omitted)					
w1SRH							
2	.1644432	.1191817	1.38	0.168	-.0691487	.39803	
3	.08444328	.1282481	0.66	0.510	-.16693	.33579	
w1SRH#c.timew1w3							
2	-.0064759	.0300791	-0.22	0.830	-.0654298	.0524	
3	-.0092666	.0323184	-0.29	0.774	-.072611	.05407	
timew1w3	0	(omitted)					
w1CEScent15	-.0076446	.0041769	-1.83	0.067	-.0158314	.00054	
c.timew1w3#c.w1CEScent15	.0005808	.0010594	0.55	0.584	-.0014958	.00265	
timew1w3	0	(omitted)					
w1dxHTN							
Yes	.0481605	.0995575	0.48	0.629	-.1469749	.24329	
w1dxHTN#c.timew1w3							
Yes	-.009411	.0252535	-0.37	0.709	-.0589187	.04009	
timew1w3	0	(omitted)					
w1dxDiabetes							

	preDiabetes	<b>-.0163584</b>	.1162595	<b>-0.14</b>	0.888	<b>-.2442692</b>	.21155
	Diabetes	<b>-.096331</b>	.1457415	<b>-0.66</b>	0.510	<b>-.3841175</b>	.19149
w1dxDiabetes#c.timew1w3							
	preDiabetes	<b>.031045</b>	.0289526	<b>1.07</b>	0.284	<b>-.025702</b>	.08779
	Diabetes	<b>-.0459685</b>	.0357131	<b>-1.29</b>	0.198	<b>-.1160481</b>	.02411
	timew1w3		<b>0</b> (omitted)				
w1CVhighChol							
	Yes	<b>.1776159</b>	.1091509	<b>1.63</b>	0.104	<b>-.0366371</b>	.39186
w1CVhighChol#c.timew1w3							
	Yes	<b>.009332</b>	.0279489	<b>0.33</b>	0.738	<b>-.0454853</b>	.06414
	timew1w3		<b>0</b> (omitted)				
1.w1cvdbr		<b>-.034159</b>	.1295109	<b>-0.26</b>	0.792	<b>-.289515</b>	.22119
w1cvdbr#c.timew1w3							
	1	<b>-.0007716</b>	.0320662	<b>-0.02</b>	0.981	<b>-.0637924</b>	.06224
	timew1w3		<b>0</b> (omitted)				
invmillsmms		<b>.0080755</b>	.0027652	<b>2.92</b>	0.003	<b>.0026558</b>	.01349
c.timew1w3#c.invmillsmms		<b>-.0019102</b>	.0006111	<b>-3.13</b>	0.002	<b>-.003108</b>	-.00071
	timew1w3		<b>0</b> (omitted)				
w1HCYcenter2p15		<b>-.015685</b>	.1467693	<b>-0.11</b>	0.915	<b>-.3033542</b>	.27198
c.timew1w3#c.w1HCYcenter2p15		<b>.0040291</b>	.0381194	<b>0.11</b>	0.916	<b>-.070684</b>	.07874
	w1Folatecenter14p3	<b>.0048573</b>	.0070485	<b>0.69</b>	0.491	<b>-.0089601</b>	.01867
c.timew1w3#c.w1Folatecenter14p3		<b>-.0004064</b>	.0018553	<b>-0.22</b>	0.827	<b>-.0040428</b>	.003
c.w1HCYcenter2p15#c.w1Folatecenter14p3		<b>-.0362416</b>	.0169677	<b>-2.14</b>	0.033	<b>-.0695243</b>	-.00295
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		<b>.0061902</b>	.0046338	<b>1.34</b>	0.182	<b>-.0028944</b>	.01522
	_cons	<b>27.26403</b>	.221834	<b>122.90</b>	0.000	<b>26.82921</b>	27.698

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>5.73e-07</b>	<b>.0002028</b>	<b>6.2e-308</b>	<b>5.3e+294</b>
sd(_cons)	<b>.9920412</b>	<b>.0427626</b>	<b>.9116552</b>	<b>1.079515</b>
sd(Residual)	<b>1.210921</b>	<b>.0265013</b>	<b>1.160076</b>	<b>1.263995</b>

```

90 .
91 .
92 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,653
Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0397
Largest FMI = 0.3569
DF: min = 38.10
    avg = 5.48e+08
    max = 2.79e+10
F( 47, 107731.4) = 20.89
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.547802	.4622163	1.19	0.236	.3582804	1.4538
w1Agecent48	-.1852952	.0416918	-4.44	0.000	-.2670114	-.1035
c.timew1w3#c.w1Agecent48	-.0228577	.0107111	-2.13	0.033	-.0438516	-.00186
timew1w3	0 (omitted)					
Sex						
Men	-2.291782	.7310664	-3.13	0.002	-3.724653	-.85891
Sex#c.timew1w3						
Men	.1462471	.1887735	0.77	0.439	-.2237882	.51628
timew1w3	0 (omitted)					
Race						
AfrAm	-3.435213	.7227368	-4.75	0.000	-4.851853	-2.0185
Race#c.timew1w3						
AfrAm	.0219568	.1887962	0.12	0.907	-.3480996	.39201
timew1w3	0 (omitted)					
PovStat						
Below	-.2587494	.734109	-0.35	0.724	-1.697593	1.1800
PovStat#c.timew1w3						
Below	-.2891484	.1852747	-1.56	0.119	-.6522806	.07398
timew1w3	0 (omitted)					
w1edubr						
2	3.988432	1.445106	2.76	0.006	1.155922	6.8209
3	5.991871	1.574191	3.81	0.000	2.906228	9.0775
w1edubr#c.timew1w3						

		2	-.5209665	.378697	-1.38	0.169	-1.263293	.22139
		3	-.3887206	.4089731	-0.95	0.342	-1.190438	.41299
	timew1w3		0	(omitted)				
w1WRATtotalcent42			.933955	.0495513	18.85	0.000	.8368281	1.0310
c.timew1w3#c.w1WRATtotalcent42			-.0308658	.0140373	-2.20	0.028	-.0583829	-.00334
	timew1w3		0	(omitted)				
1.w1smoke			-.0527224	.7847117	-0.07	0.946	-1.593041	1.4875
w1smoke#c.timew1w3								
1			-.3358808	.2013757	-1.67	0.095	-.7305709	.05886
	timew1w3		0	(omitted)				
1.w1currdrugs			.2113918	.9871022	0.21	0.831	-1.73798	2.1607
w1currdrugs#c.timew1w3								
1			.0567065	.2521922	0.22	0.822	-.4402019	.55361
	timew1w3		0	(omitted)				
w1hei2010_total_scorecent43			-.0323266	.0348554	-0.93	0.356	-.1016556	.03700
c.timew1w3#c.w1hei2010_total_scorecent43			.0075899	.0102228	0.74	0.462	-.0131032	.02828
	timew1w3		0	(omitted)				
w1BMIcon30			-.0394766	.0507621	-0.78	0.437	-.1389758	.06002
c.timew1w3#c.w1BMIcon30			-.0021884	.0127923	-0.17	0.864	-.0272609	.02288
	timew1w3		0	(omitted)				
w1SRH								
2			1.291707	.9363619	1.38	0.168	-.5435315	3.1269
3			1.572898	1.011458	1.56	0.120	-.4096198	3.5554
w1SRH#c.timew1w3								
2			-.1048806	.2442571	-0.43	0.668	-.5836158	.37385
3			-.1895373	.26268	-0.72	0.471	-.7043939	.32531
	timew1w3		0	(omitted)				
w1CEScent15			-.0628245	.0327337	-1.92	0.055	-.1269824	.00133
c.timew1w3#c.w1CEScent15			.0054544	.0085875	0.64	0.525	-.0113781	.02228
	timew1w3		0	(omitted)				
w1dxHTN								
Yes			.5738139	.7859306	0.73	0.465	-.9667381	2.1143
w1dxHTN#c.timew1w3								
Yes			-.0927693	.2044798	-0.45	0.650	-.4935945	.30805
	timew1w3		0	(omitted)				
w1dxDiabetes								
preDiabetes			.5441038	.9176319	0.59	0.553	-1.255067	2.3432
Diabetes			-.2279922	1.12516	-0.20	0.840	-2.443745	1.9877
w1dxDiabetes#c.timew1w3								
preDiabetes			.228866	.2349457	0.97	0.330	-.2316226	.68935
Diabetes			-.3675793	.2891527	-1.27	0.204	-.9348448	.19968

	timew1w3	0	(omitted)				
w1CVhighChol							
Yes	<b>1.148771</b>	.8659743	1.33	0.185	-.5520124	2.8495	
w1CVhighChol#c.timew1w3							
Yes	<b>.1222468</b>	.2332751	0.52	0.601	-.3363516	.58084	
timew1w3		0	(omitted)				
1.w1cvdbr	<b>-.5022764</b>	<b>1.039025</b>	-0.48	0.630	-2.556726	1.5521	
w1cvdbr#c.timew1w3							
1	<b>-.0232849</b>	.2630835	-0.09	0.930	-.5409451	.49437	
timew1w3		0	(omitted)				
invmillsmms	<b>.0453354</b>	<b>.0217098</b>	2.09	0.037	.0027849	.08788	
c.timew1w3#c.invmillsmms							
	<b>-.0102375</b>	<b>.0049794</b>	-2.06	0.040	-.0199969	-.0004	
timew1w3		0	(omitted)				
w1HCYcenter2p15	<b>.6725905</b>	<b>1.150346</b>	0.58	0.559	-1.582066	2.9272	
c.timew1w3#c.w1HCYcenter2p15							
	<b>-.0530101</b>	<b>.3095191</b>	-0.17	0.864	-.6596594	.55363	
w1Folatecenter14p3							
	<b>.0700633</b>	<b>.055187</b>	1.27	0.204	-.0381124	.1782	
c.timew1w3#c.w1Folatecenter14p3							
	<b>-.0123804</b>	<b>.0151671</b>	-0.82	0.414	-.0421127	.01735	
c.w1HCYcenter2p15#c.w1Folatecenter14p3							
	<b>-.2298019</b>	<b>.1304615</b>	-1.76	0.078	-.4855108	.0259	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3							
	<b>.0309909</b>	<b>.0373459</b>	0.83	0.407	-.0422122	.10419	
_cons	<b>73.21943</b>	<b>1.75736</b>	41.66	0.000	69.77397	76.664	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>.0002537</b>	<b>.0220348</b>	<b>2.97e-78</b>	<b>2.16e+70</b>
sd(_cons)	<b>7.325449</b>	<b>.3182927</b>	<b>6.727413</b>	<b>7.976647</b>
sd(Residual)	<b>9.871757</b>	<b>.2022536</b>	<b>9.483195</b>	<b>10.27624</b>

```

93 .
94 .
95 .
96 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4bobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates                          Imputations = 5  
 Mixed-effects ML regression                          Number of obs = 2,464

Group variable: HNDID Number of groups = 1,420  
 Obs per group:  
     min = 1  
     avg = 1.7  
     max = 2  
     Average RVI = 0.0386  
     Largest FMI = 0.3569  
 DF adjustment: Large sample DF: min = 38.10  
     avg = 84,419.15  
     max = 908,330.15  
 Model F test: Equal FMI F( 47, 113464.0) = 35.84  
 Prob > F = 0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-1.086934	.178929	-6.07	0.000	-1.437631 -.73623
w1Agecent48		-.157363	.0205706	-7.65	0.000	-.1976822 -.11704
c.timew1w3#c.w1Agecent48		-.0097848	.0044932	-2.18	0.029	-.0185915 -.00097
timew1w3		0	(omitted)			
Sex						
Men		-2.301239	.3609669	-6.38	0.000	-3.008723 -1.5932
Sex#c.timew1w3						
Men		-.2387956	.0789019	-3.03	0.002	-.3934444 -.08414
timew1w3		0	(omitted)			
Race						
AfrAm		-2.238769	.3615933	-6.19	0.000	-2.947744 -1.5297
Race#c.timew1w3						
AfrAm		.1068761	.0790217	1.35	0.176	-.0480544 .26180
timew1w3		0	(omitted)			
PovStat						
Below		-.1025394	.3610088	-0.28	0.776	-.8101287 .60504
PovStat#c.timew1w3						
Below		-.0348822	.076602	-0.46	0.649	-.1850263 .11526
timew1w3		0	(omitted)			
w1edubr						
2		-.5203431	.7015766	-0.74	0.458	-1.89661 .85592
3		1.629487	.7598548	2.14	0.032	.1395 3.1194
w1edubr#c.timew1w3						
2		.1219003	.1450987	0.84	0.401	-.162556 .40635
3		-.0463256	.1592364	-0.29	0.771	-.3584596 .26586
timew1w3		0	(omitted)			
w1WRATtotalcent42		.2210342	.0240729	9.18	0.000	.1738499 .26821
c.timew1w3#c.w1WRATtotalcent42		-.0064824	.0051601	-1.26	0.209	-.0165965 .00365
timew1w3		0	(omitted)			
1.w1smoke		.0153917	.3912656	0.04	0.969	-.7570424 .78782

w1smoke#c.timew1w3							
	1	<b>-.0030341</b>	<b>.0905262</b>	<b>-0.03</b>	<b>0.973</b>	<b>-.1820226</b>	<b>.17599</b>
timew1w3		0	(omitted)				
1.w1currdrugs		<b>-.387673</b>	<b>.4406579</b>	<b>-0.88</b>	<b>0.379</b>	<b>-1.251722</b>	<b>.47637</b>
w1currdrugs#c.timew1w3							
	1	<b>.1341402</b>	<b>.0995731</b>	<b>1.35</b>	<b>0.178</b>	<b>-.0612194</b>	<b>.32949</b>
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		<b>.0275055</b>	<b>.0180496</b>	<b>1.52</b>	<b>0.136</b>	<b>-.0090309</b>	<b>.06404</b>
c.timew1w3#c.w1hei2010_total_scorecent43							
		<b>-.0047706</b>	<b>.0039793</b>	<b>-1.20</b>	<b>0.233</b>	<b>-.0126616</b>	<b>.00312</b>
timew1w3		0	(omitted)				
w1BMICent30		<b>.0068786</b>	<b>.0249519</b>	<b>0.28</b>	<b>0.783</b>	<b>-.0420347</b>	<b>.05579</b>
c.timew1w3#c.w1BMICent30							
		<b>-.000245</b>	<b>.0052948</b>	<b>-0.05</b>	<b>0.963</b>	<b>-.0106226</b>	<b>.01013</b>
timew1w3		0	(omitted)				
w1SRH							
	2	<b>.8716792</b>	<b>.4573288</b>	<b>1.91</b>	<b>0.057</b>	<b>-.024707</b>	<b>1.7686</b>
	3	<b>.7591217</b>	<b>.4951777</b>	<b>1.53</b>	<b>0.125</b>	<b>-.2115563</b>	<b>1.72</b>
w1SRH#c.timew1w3							
	2	<b>-.144905</b>	<b>.0994297</b>	<b>-1.46</b>	<b>0.145</b>	<b>-.3397852</b>	<b>.04997</b>
	3	<b>-.1311942</b>	<b>.106704</b>	<b>-1.23</b>	<b>0.219</b>	<b>-.340331</b>	<b>.07794</b>
timew1w3		0	(omitted)				
w1CEScent15							
		<b>-.0718888</b>	<b>.0157929</b>	<b>-4.55</b>	<b>0.000</b>	<b>-.1028423</b>	<b>-.04093</b>
c.timew1w3#c.w1CEScent15							
		<b>-.0071005</b>	<b>.0034775</b>	<b>-2.04</b>	<b>0.041</b>	<b>-.0139166</b>	<b>-.00028</b>
timew1w3		0	(omitted)				
w1dxHTN							
	Yes	<b>.1016151</b>	<b>.382128</b>	<b>0.27</b>	<b>0.790</b>	<b>-.6475038</b>	<b>.8507</b>
w1dxHTN#c.timew1w3							
	Yes	<b>-.030893</b>	<b>.0843218</b>	<b>-0.37</b>	<b>0.714</b>	<b>-.1961698</b>	<b>.13438</b>
timew1w3		0	(omitted)				
w1dxDiabetes							
	preDiabetes	<b>-.4134484</b>	<b>.4437854</b>	<b>-0.93</b>	<b>0.352</b>	<b>-1.283404</b>	<b>.45656</b>
	Diabetes	<b>.6398748</b>	<b>.5296554</b>	<b>1.21</b>	<b>0.227</b>	<b>-.3993387</b>	<b>1.6790</b>
w1dxDiabetes#c.timew1w3							
	preDiabetes	<b>.1574137</b>	<b>.0989882</b>	<b>1.59</b>	<b>0.112</b>	<b>-.0366707</b>	<b>.35149</b>
	Diabetes	<b>-.2904546</b>	<b>.1197963</b>	<b>-2.42</b>	<b>0.016</b>	<b>-.5256086</b>	<b>-.05530</b>
timew1w3		0	(omitted)				
w1CVhighChol							
	Yes	<b>-.2742949</b>	<b>.4129368</b>	<b>-0.66</b>	<b>0.507</b>	<b>-1.084422</b>	<b>.5358</b>
w1CVhighChol#c.timew1w3							
	Yes	<b>.1817846</b>	<b>.0954825</b>	<b>1.90</b>	<b>0.057</b>	<b>-.0055151</b>	<b>.36908</b>
timew1w3		0	(omitted)				
1.w1cvdbr		<b>.5961179</b>	<b>.4607808</b>	<b>1.29</b>	<b>0.196</b>	<b>-.3073409</b>	<b>1.4995</b>

w1cvdbr#c.timew1w3								
	1	-.1729955	.1056962	-1.64	0.102	-.3804396	.03444	
timew1w3		0	(omitted)					
invmillsmms		.0187212	.0102548	1.83	0.068	-.0013779	.03882	
c.timew1w3#c.invmillsmms		-.0004304	.0019939	-0.22	0.829	-.0043383	.00347	
timew1w3		0	(omitted)					
w1HCYcenter2p15		.8324318	.5630687	1.48	0.139	-.2711957	1.9366	
c.timew1w3#c.w1HCYcenter2p15		-.0196731	.122231	-0.16	0.872	-.2592513	.2199	
w1Folatecenter14p3		-.0437834	.0271855	-1.61	0.108	-.0971695	.00966	
c.timew1w3#c.w1Folatecenter14p3		.0122011	.005708	2.14	0.033	.0010097	.02339	
c.w1HCYcenter2p15#c.w1Folatecenter14p3		-.0999614	.0624696	-1.60	0.110	-.2224039	.02248	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		-.0207978	.0137917	-1.51	0.132	-.0478297	.0062	
_cons		25.88428	.8381746	30.88	0.000	24.24136	27.52	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.326741	.1073942	.1715598	.6222882
sd(_cons)	4.293283	.1288337	4.048055	4.553367
sd(Residual)	3.669138	.1297705	3.423404	3.932511

97 .  
 98 .  
 99 .  
 100 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti  
 > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010\_total\_scorecent43 c.timew1w3##c.w1BMIcon  
 > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///  
 > c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
 > if sample4cobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,339

Group variable: HNDID

Number of groups	=	1,391
Obs per group:		
min =	1	
avg =	1.7	
max =	2	
Average RVI	=	0.0572
Largest FMI	=	0.3176

DF adjustment: Large sample

DF:	min	=	47.69
	avg	=	119,753.06
	max	=	967,759.31

Model F test: Equal FMI

F( 47,53148.1)	=	22.13
Prob > F	=	0.0000

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3		-.3885684	.087525	-4.44	0.000	-.5601164
w1Agecent48		-.0866003	.0099355	-8.72	0.000	-.1060737
c.timew1w3#c.w1Agecent48		-.0045934	.0022224	-2.07	0.039	-.0089494
timew1w3		0	(omitted)			
Sex						
Men		-1.022941	.1745566	-5.86	0.000	-1.365071
Sex#c.timew1w3						
Men		-.0676185	.0384097	-1.76	0.078	-.1429009
timew1w3		0	(omitted)			
Race						
AfrAm		-1.30519	.173813	-7.51	0.000	-1.645953
Race#c.timew1w3						
AfrAm		.0233493	.0384591	0.61	0.544	-.052039
timew1w3		0	(omitted)			
PovStat						
Below		.0382612	.1744346	0.22	0.826	-.3036387
PovStat#c.timew1w3						
Below		-.0304194	.0375207	-0.81	0.418	-.1039627
timew1w3		0	(omitted)			
w1edubr						
2		-.1241305	.339054	-0.37	0.714	-.7890751
3		.5649796	.3676242	1.54	0.124	-.155766
w1edubr#c.timew1w3						
2		-.0095975	.0702973	-0.14	0.891	-.1474014
3		-.0075126	.0773267	-0.10	0.923	-.1590825
timew1w3		0	(omitted)			
w1WRATtotalcent42		.092902	.011717	7.93	0.000	.069934
c.timew1w3#c.w1WRATtotalcent42		-.0041465	.0025152	-1.65	0.099	-.0090763
timew1w3		0	(omitted)			
1.w1smoke		.0147278	.2016731	0.07	0.942	-.3877168
w1smoke#c.timew1w3						
1		-.0078271	.0465539	-0.17	0.867	-.1007319
timew1w3		0	(omitted)			
1.w1currdrugs		-.1822567	.2283998	-0.80	0.426	-.6327981
w1currdrugs#c.timew1w3						
1		-.0144644	.0520538	-0.28	0.782	-.1174772
timew1w3		0	(omitted)			
w1hei2010_total_scorecent43		.0065625	.0086429	0.76	0.451	-.0108181
c.timew1w3#c.w1hei2010_total_scorecent43		-.000532	.0019941	-0.27	0.790	-.0044964
						.00343

	timew1w3	0	(omitted)				
w1BMICent30		.028935	.012044	2.40	0.016	.0053266	.05254
c.timew1w3#c.w1BMICent30		-.0025508	.0025956	-0.98	0.326	-.0076383	.00253
	timew1w3	0	(omitted)				
w1SRH							
2		.2087567	.2211351	0.94	0.345	-.2246681	.64218
3		.0117026	.2394077	0.05	0.961	-.4575711	.48097
w1SRH#c.timew1w3							
2		.0175808	.0489529	0.36	0.719	-.0783655	.11352
3		.0579735	.0525908	1.10	0.270	-.0451028	.16104
	timew1w3	0	(omitted)				
w1CEScent15		-.0328768	.0076972	-4.27	0.000	-.0479632	-.01779
c.timew1w3#c.w1CEScent15		.0000714	.0017267	0.04	0.967	-.0033139	.00345
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.0217255	.1844418	0.12	0.906	-.3398428	.38329
w1dxHTN#c.timew1w3							
Yes		.0175224	.0411383	0.43	0.670	-.0631083	.0981
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.2204813	.2152046	-1.02	0.306	-.6425059	.20154
Diabetes		-.2109822	.2648765	-0.80	0.426	-.73218	.31021
w1dxDiabetes#c.timew1w3							
preDiabetes		.0654379	.047811	1.37	0.171	-.0282854	.15918
Diabetes		-.0182498	.0582053	-0.31	0.754	-.1324644	.09596
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0281438	.2056815	-0.14	0.891	-.432479	.37619
w1CVhighChol#c.timew1w3							
Yes		.0590084	.0480466	1.23	0.220	-.0354698	.15348
	timew1w3	0	(omitted)				
1.w1cvdbr		.3019789	.2308502	1.31	0.191	-.1514034	.75536
w1cvdbr#c.timew1w3							
1		-.0531171	.0515037	-1.03	0.303	-.1541182	.0478
	timew1w3	0	(omitted)				
invmillsmms		.0083421	.0048956	1.70	0.088	-.0012532	.01793
c.timew1w3#c.invmillsmms		-.0004704	.0009461	-0.50	0.619	-.0023248	.0013
	timew1w3	0	(omitted)				
w1HCYcenter2p15		.5276031	.273204	1.93	0.053	-.0078739	1.063
c.timew1w3#c.w1HCYcenter2p15		.0024945	.0598152	0.04	0.967	-.1147416	.11973

w1Folatecenter14p3	<b>-.001549</b>	<b>.013142</b>	<b>-0.12</b>	<b>0.906</b>	<b>-.0273577</b>	<b>.02425</b>
c.timew1w3#c.w1Folatecenter14p3	<b>.001911</b>	<b>.0027386</b>	<b>0.70</b>	<b>0.485</b>	<b>-.003457</b>	<b>.00727</b>
c.w1HCYcenter2p15#c.w1Folatecenter14p3	<b>-.0475658</b>	<b>.0307895</b>	<b>-1.54</b>	<b>0.122</b>	<b>-.1079147</b>	<b>.01278</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	<b>.001028</b>	<b>.0067121</b>	<b>0.15</b>	<b>0.878</b>	<b>-.0121278</b>	<b>.01418</b>
_cons	<b>8.257491</b>	<b>.409017</b>	<b>20.19</b>	<b>0.000</b>	<b>7.455663</b>	<b>9.0593</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>.0472834</b>	<b>.1799499</b>	<b>.0000272</b>	<b>82.07384</b>
sd(_cons)	<b>1.977762</b>	<b>.0632521</b>	<b>1.857596</b>	<b>2.105703</b>
sd(Residual)	<b>1.812244</b>	<b>.0606263</b>	<b>1.69723</b>	<b>1.935052</b>

```

101 .
102 .
103 .
104 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvnbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4dobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,751
Group variable: HNDID	Number of groups = 1,443
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
	Average RVI = 0.0414
	Largest FMI = 0.3049
DF adjustment: Large sample	DF: min = 51.57
	avg = 1899055.65
	max = 8.01e+07
Model F test: Equal FMI	F( 47,98136.8) = 20.35
	Prob > F = 0.0000

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	<b>.5198998</b>	<b>.1281775</b>	<b>4.06</b>	<b>0.000</b>	<b>.268639</b>	<b>.77116</b>
w1Agecent48	<b>.1153521</b>	<b>.0143945</b>	<b>8.01</b>	<b>0.000</b>	<b>.087138</b>	<b>.14356</b>
c.timew1w3#c.w1Agecent48	<b>.0091016</b>	<b>.0030956</b>	<b>2.94</b>	<b>0.003</b>	<b>.0030342</b>	<b>.01515</b>
timew1w3		0 (omitted)				
Sex						
Men	<b>-.9579606</b>	<b>.2538661</b>	<b>-3.77</b>	<b>0.000</b>	<b>-1.455569</b>	<b>-.46035</b>
Sex#c.timew1w3						
Men	<b>.046672</b>	<b>.054031</b>	<b>0.86</b>	<b>0.388</b>	<b>-.0592301</b>	<b>.15257</b>
timew1w3		0 (omitted)				

Race						
AfrAm	.6035772	.2487277	2.43	0.015	.1160433	1.0911
Race#c.timew1w3						
AfrAm	.1611721	.0536853	3.00	0.003	.0559489	.26639
timew1w3	0 (omitted)					
PovStat						
Below	.1197463	.2534477	0.47	0.637	-.3770028	.61649
PovStat#c.timew1w3						
Below	.0306416	.0533293	0.57	0.566	-.073882	.13516
timew1w3	0 (omitted)					
w1edubr						
2	-.6506382	.4974271	-1.31	0.191	-1.625701	.32442
3	-1.422389	.546086	-2.60	0.009	-2.493104	-.35167
w1edubr#c.timew1w3						
2	-.15919	.1030356	-1.54	0.122	-.3611416	.04276
3	-.1317299	.1129625	-1.17	0.244	-.3531358	.08962
timew1w3	0 (omitted)					
w1WRATtotalcent42						
c.timew1w3#c.w1WRATtotalcent42						
timew1w3						
1.w1smoke	.2619087	.2753943	0.95	0.343	-.2808121	.80462
w1smoke#c.timew1w3						
1	-.0450804	.0587746	-0.77	0.443	-.1602997	.07013
timew1w3	0 (omitted)					
1.w1currdrugs						
-.2803974	.3637269	-0.77	0.444	-1.010414	.4496	
w1currdrugs#c.timew1w3						
1	.083394	.072321	1.15	0.250	-.0588273	.22561
timew1w3	0 (omitted)					
w1hei2010_total_scorecent43						
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3						
w1BMIconcent30						
-.0119558	.0175111	-0.68	0.495	-.04628	.02236	
c.timew1w3#c.w1BMIconcent30						
timew1w3	0 (omitted)					
w1SRH						
2	-.8543349	.3248842	-2.63	0.009	-1.491098	-.21757
3	-.8193543	.3502131	-2.34	0.019	-1.505761	-.13294
w1SRH#c.timew1w3						
2	-.056503	.0701661	-0.81	0.421	-.1940266	.08102
3	-.0150564	.0757747	-0.20	0.843	-.1635822	.13348
timew1w3	0 (omitted)					

w1CEScent15	.0444494	.0114944	3.87	0.000	.0219142	.06698
c.timew1w3#c.w1CEScent15	-.0001069	.0024898	-0.04	0.966	-.0049881	.00477
timew1w3	0	(omitted)				
w1dxHTN Yes	.3450586	.2693336	1.28	0.200	-.1828768	.87299
w1dxHTN#c.timew1w3 Yes	-.0237316	.0586159	-0.40	0.686	-.138617	.09115
timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes	.2697159	.31537	0.86	0.392	-.3485626	.88799
	.2653879	.3757769	0.71	0.480	-.4724129	1.0031
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	-.036964	.0678319	-0.54	0.586	-.1699125	.09598
	.0261257	.0806499	0.32	0.746	-.1319478	.18419
timew1w3	0	(omitted)				
w1CVhighChol Yes	.0867641	.2948901	0.29	0.769	-.4928607	.66638
w1CVhighChol#c.timew1w3 Yes	-.0156992	.065749	-0.24	0.811	-.1446174	.1132
timew1w3 1.w1cvdbr	0	(omitted)				
	.4232327	.3313929	1.28	0.202	-.227131	1.0735
w1cvdbr#c.timew1w3 1	-.1570378	.0733406	-2.14	0.032	-.300862	-.01322
timew1w3 invmillsmms	0	(omitted)				
	-.0167773	.0075527	-2.22	0.026	-.0315804	-.00197
c.timew1w3#c.invmillsmms	.0000101	.001477	0.01	0.995	-.0028848	.0029
timew1w3 w1HCYcenter2p15	0	(omitted)				
	-.2274487	.3972794	-0.57	0.567	-1.006137	.55123
c.timew1w3#c.w1HCYcenter2p15	.1737359	.0841446	2.06	0.039	.0088155	.33865
w1Folatecenter14p3	-.0117523	.0210133	-0.56	0.577	-.053476	.02997
c.timew1w3#c.w1Folatecenter14p3	.0014457	.0039874	0.36	0.717	-.0063696	.00926
c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0077671	.0454314	-0.17	0.864	-.0968462	.0813
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0221308	.0096646	2.29	0.022	.0031883	.04107
_cons	7.765462	.604693	12.84	0.000	6.580032	8.9508

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	2.53e-06	.0005954	1.7e-206	3.7e+194
sd(_cons)	3.096239	.090695	2.923487	3.2792
sd(Residual)	2.91083	.0575131	2.80026	3.025766

105 .  
106 .  
107 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.  
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010\_total\_scorecent43 c.timew1w3##c.w1BMICent  
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///  
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates Imputations = 5  
Mixed-effects ML regression Number of obs = 2,486

Group variable: HNDID Number of groups = 1,418  
Obs per group:  
min = 1  
avg = 1.8  
max = 2  
Average RVI = 0.0363  
Largest FMI = 0.2979

DF adjustment: Large sample DF: min = 53.94  
avg = 5432873.92  
max = 1.49e+08

Model F test: Equal FMI F( 47, 126773.4) = 9.29  
Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0205698	.0666516	-0.31	0.758	-.1512077 .1100
w1Agecent48	-.013376	.0070239	-1.90	0.057	-.0271429 .0003
c.timew1w3#c.w1Agecent48	-.0028316	.0016055	-1.76	0.078	-.0059782 .0003
timew1w3	0 (omitted)				
Sex					
Men	-.2544054	.1237586	-2.06	0.040	-.4969679 -.0118
Sex#c.timew1w3					
Men	-.0157715	.0279793	-0.56	0.573	-.0706099 .0390
timew1w3	0 (omitted)				
Race					
AfrAm	-.7293553	.1218867	-5.98	0.000	-.9682528 -.4904
Race#c.timew1w3					
AfrAm	.0476244	.027786	1.71	0.087	-.0068352 .1020
timew1w3	0 (omitted)				
PovStat					
Below	-.0664029	.1244692	-0.53	0.594	-.3103589 .1775

PovStat#c.timew1w3							
Below		<b>-.0432567</b>	<b>.0279278</b>	<b>-1.55</b>	<b>0.121</b>	<b>-.0979952</b>	<b>.01148</b>
timew1w3		<b>0</b>	(omitted)				
w1edubr							
2		<b>.3875675</b>	<b>.2443299</b>	<b>1.59</b>	<b>0.113</b>	<b>-.0913349</b>	<b>.86646</b>
3		<b>.5312936</b>	<b>.2658608</b>	<b>2.00</b>	<b>0.046</b>	<b>.0101484</b>	<b>1.0524</b>
w1edubr#c.timew1w3							
2		<b>-.0100364</b>	<b>.0547975</b>	<b>-0.18</b>	<b>0.855</b>	<b>-.1174496</b>	<b>.09732</b>
3		<b>-.0382641</b>	<b>.059347</b>	<b>-0.64</b>	<b>0.519</b>	<b>-.1545871</b>	<b>.07805</b>
timew1w3		<b>0</b>	(omitted)				
w1WRATtotalcent42		<b>.0711693</b>	<b>.0083291</b>	<b>8.54</b>	<b>0.000</b>	<b>.0548445</b>	<b>.08749</b>
c.timew1w3#c.w1WRATtotalcent42		<b>.0034501</b>	<b>.0019133</b>	<b>1.80</b>	<b>0.071</b>	<b>-.0002999</b>	<b>.000</b>
timew1w3		<b>0</b>	(omitted)				
1.w1smoke		<b>-.133987</b>	<b>.1371592</b>	<b>-0.98</b>	<b>0.330</b>	<b>-.4047463</b>	<b>.13677</b>
w1smoke#c.timew1w3							
1		<b>-.0201162</b>	<b>.0306527</b>	<b>-0.66</b>	<b>0.512</b>	<b>-.0802324</b>	<b>.03999</b>
timew1w3		<b>0</b>	(omitted)				
1.w1currdrugs		<b>.3380957</b>	<b>.1532588</b>	<b>2.21</b>	<b>0.027</b>	<b>.0376048</b>	<b>.63858</b>
w1currdrugs#c.timew1w3							
1		<b>-.0253078</b>	<b>.0355109</b>	<b>-0.71</b>	<b>0.476</b>	<b>-.0949126</b>	<b>.04429</b>
timew1w3		<b>0</b>	(omitted)				
w1hei2010_total_scorecent43		<b>-.0047118</b>	<b>.0055558</b>	<b>-0.85</b>	<b>0.398</b>	<b>-.015677</b>	<b>.00625</b>
c.timew1w3#c.w1hei2010_total_scorecent43		<b>.0001104</b>	<b>.0012644</b>	<b>0.09</b>	<b>0.930</b>	<b>-.0023679</b>	<b>.00258</b>
timew1w3		<b>0</b>	(omitted)				
w1BMIcon30		<b>-.0170732</b>	<b>.0085977</b>	<b>-1.99</b>	<b>0.047</b>	<b>-.0339254</b>	<b>-.0002</b>
c.timew1w3#c.w1BMIcon30		<b>.000504</b>	<b>.0019276</b>	<b>0.26</b>	<b>0.794</b>	<b>-.0032742</b>	<b>.00428</b>
timew1w3		<b>0</b>	(omitted)				
w1SRH							
2		<b>.471347</b>	<b>.1595637</b>	<b>2.95</b>	<b>0.003</b>	<b>.1585987</b>	<b>.78409</b>
3		<b>.3826691</b>	<b>.1722187</b>	<b>2.22</b>	<b>0.026</b>	<b>.0450981</b>	<b>.7208</b>
w1SRH#c.timew1w3							
2		<b>-.0339369</b>	<b>.0365804</b>	<b>-0.93</b>	<b>0.354</b>	<b>-.1056332</b>	<b>.03775</b>
3		<b>-.0069432</b>	<b>.0394931</b>	<b>-0.18</b>	<b>0.860</b>	<b>-.0843539</b>	<b>.07048</b>
timew1w3		<b>0</b>	(omitted)				
w1CEScent15		<b>-.007016</b>	<b>.0055602</b>	<b>-1.26</b>	<b>0.207</b>	<b>-.0179142</b>	<b>.00388</b>
c.timew1w3#c.w1CEScent15		<b>-.0005593</b>	<b>.0012657</b>	<b>-0.44</b>	<b>0.659</b>	<b>-.00304</b>	<b>.00192</b>
timew1w3		<b>0</b>	(omitted)				
w1dxHTN							
Yes		<b>.0591156</b>	<b>.1347106</b>	<b>0.44</b>	<b>0.661</b>	<b>-.2051033</b>	<b>.32333</b>
w1dxHTN#c.timew1w3							
Yes		<b>-.0438629</b>	<b>.03078</b>	<b>-1.43</b>	<b>0.154</b>	<b>-.1041962</b>	<b>.01647</b>

	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.2469399	.1517371	-1.63	0.104	-.544341	.05046
Diabetes		-.327622	.1880185	-1.74	0.082	-.697246	.04200
w1dxDiabetes#c.timew1w3							
preDiabetes		.0723817	.0353129	2.05	0.040	.0031695	.14159
Diabetes		-.026076	.0416583	-0.63	0.531	-.1077341	.05558
timew1w3		0	(omitted)				
w1CVhighChol							
Yes		.1370067	.1530596	0.90	0.372	-.1656515	.4396
w1CVhighChol#c.timew1w3							
Yes		.0253849	.034316	0.74	0.460	-.0419255	.09269
timew1w3		0	(omitted)				
1.w1cvdbr		.0403087	.1856364	0.22	0.829	-.3318798	.41249
w1cvdbr#c.timew1w3							
1		.0193925	.0410859	0.47	0.638	-.0620074	.10079
timew1w3		0	(omitted)				
invmillsmms		.0025847	.0035225	0.73	0.463	-.0043193	.00948
c.timew1w3#c.invmillsmms		-.0007549	.0007307	-1.03	0.302	-.002187	.00067
timew1w3		0	(omitted)				
w1HCYcenter2p15		-.0888565	.1964553	-0.45	0.651	-.4739024	.29618
c.timew1w3#c.w1HCYcenter2p15		.0083707	.044619	0.19	0.851	-.079081	.09582
w1Folatecenter14p3		-.0042273	.0092973	-0.45	0.649	-.0224703	.01403
c.timew1w3#c.w1Folatecenter14p3		.0009103	.0020507	0.44	0.657	-.0031091	.00492
c.w1HCYcenter2p15#c.w1Folatecenter14p3		.0300067	.0226101	1.33	0.184	-.0143137	.0743
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		-.0042403	.0050727	-0.84	0.403	-.0141832	.00576
_cons		6.534893	.2935062	22.26	0.000	5.959627	7.1101

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]		
HNDID: Independent					
sd(timew1w3)	.0962984	.0414432	.041428	.2238434	
sd(_cons)	1.3794	.0459472	1.292222	1.47246	
sd(Residual)	1.374583	.0439411	1.291102	1.463461	

108 .

```
109 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4fobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates                            Imputations = 5  
 Mixed-effects ML regression                            Number of obs = 2,773

Group variable: HNDID                                Number of groups = 1,446  
     Obs per group:  
     min = 1  
     avg = 1.9  
     max = 2  
     Average RVI = 0.0527  
     Largest FMI = 0.2769  
 DF adjustment: Large sample                        DF: min = 62.00  
     avg = 2326311.39  
     max = 9.09e+07

Model F test: Equal FMI                              F( 47, 61889.4) = 8.36  
     Prob > F = 0.0000

	FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.0015466	.1343149	-0.01	0.991	-.2649235 .2613
		-.0971308	.0166922	-5.82	0.000	-.1298559 -.06448
c.timew1w3#c.w1Agecent48		-.0016173	.0032401	-0.50	0.618	-.007968 .00473
timew1w3		0	(omitted)			
Sex						
Men		1.155236	.2898601	3.99	0.000	.5871155 1.7233
Sex#c.timew1w3						
Men		-.0136636	.0562533	-0.24	0.808	-.1239184 .09659
timew1w3		0	(omitted)			
Race						
AfrAm		-1.404315	.2870453	-4.89	0.000	-1.966951 -.84167
Race#c.timew1w3						
AfrAm		-.0190235	.0562024	-0.34	0.735	-.1291819 .09111
timew1w3		0	(omitted)			
PovStat						
Below		-.4174787	.2928801	-1.43	0.154	-.9915262 .15656
PovStat#c.timew1w3						
Below		.0083231	.0559764	0.15	0.882	-.1013899 .11803
timew1w3		0	(omitted)			
w1edubr						
2		-.3420103	.5724494	-0.60	0.550	-1.464104 .78008
3		.8662421	.6204956	1.40	0.163	-.3499657 2.082
w1edubr#c.timew1w3						
2		.0903343	.1106377	0.82	0.414	-.1267549 .30742

	3	.0650629	.1218822	0.53	0.594	-.1741371	.3042
	timew1w3	0	(omitted)				
w1WRATtotalcent42		.1526109	.0193232	7.90	0.000	.1147378	.1904
c.timew1w3#c.w1WRATtotalcent42		.0033061	.0037717	0.88	0.381	-.0040865	.01065
	timew1w3	0	(omitted)				
1.w1smoke		-.3806591	.3295952	-1.15	0.252	-1.037745	.27642
	w1smoke#c.timew1w3						
1		.0238483	.0629115	0.38	0.705	-.0996776	.14737
	timew1w3	0	(omitted)				
1.w1currdrugs		.4075563	.3808889	1.07	0.287	-.3457601	1.1608
	w1currdrugs#c.timew1w3						
1		-.0325705	.0724738	-0.45	0.653	-.1746898	.10954
	timew1w3	0	(omitted)				
w1hei2010_total_scorecent43		.0236595	.0129778	1.82	0.072	-.0022166	.04953
c.timew1w3#c.w1hei2010_total_scorecent43		-.0030521	.0026007	-1.17	0.241	-.0081518	.00204
	timew1w3	0	(omitted)				
w1BMIcontent30		.022448	.0203958	1.10	0.271	-.0175534	.06244
c.timew1w3#c.w1BMIcontent30		.0010194	.0038826	0.26	0.793	-.0065905	.00862
	timew1w3	0	(omitted)				
w1SRH							
2		-.0509219	.372714	-0.14	0.891	-.7814539	.67961
3		.1689274	.4014564	0.42	0.674	-.6179538	.95580
	w1SRH#c.timew1w3						
2		.0323233	.0729725	0.44	0.658	-.1107014	.17534
3		-.0331127	.0781296	-0.42	0.672	-.186245	.12001
	timew1w3	0	(omitted)				
w1CEScent15							
	timew1w3	0	(omitted)				
w1CEScent15		-.0354159	.0129912	-2.73	0.006	-.0608805	-.00995
c.timew1w3#c.w1CEScent15		.0023372	.0025406	0.92	0.358	-.0026424	.00731
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		.4246685	.3149685	1.35	0.178	-.1935725	1.042
	w1dxHTN#c.timew1w3						
Yes		-.0669503	.0621255	-1.08	0.281	-.1887625	.0548
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		-.0891635	.3585665	-0.25	0.804	-.7921148	.61378
Diabetes		-.0707889	.413573	-0.17	0.864	-.8814556	.73987
	w1dxDiabetes#c.timew1w3						
preDiabetes		.018964	.0719387	0.26	0.792	-.1220779	.16000
Diabetes		.0754413	.0856779	0.88	0.379	-.0926679	.24355
	timew1w3	0	(omitted)				

w1CVhighChol Yes	.0823206	.3656345	0.23	0.823	-.6485718	.8132
w1CVhighChol#c.timew1w3 Yes	.0458502	.0736714	0.62	0.535	-.0996704	.19137
timew1w3 1.w1cvdbr	0 .2232285	(omitted) .3744252	0.60	0.551	-.5120684	.95852
w1cvdbr#c.timew1w3 1	-.0274204	.0764257	-0.36	0.720	-.1773382	.12249
timew1w3 invmillsmms	0 .0094405	(omitted) .0088272	1.07	0.285	-.0078605	.02674
c.timew1w3#c.invmillsmms	-.0015078	.0015784	-0.96	0.339	-.0046014	.00158
timew1w3 w1HCYcenter2p15	0 .1452646	(omitted) .4539251	0.32	0.749	-.7444139	1.0349
c.timew1w3#c.w1HCYcenter2p15	-.0242054	.0877056	-0.28	0.783	-.1961058	.1476
w1Folatecenter14p3	.0308427	.0214996	1.43	0.151	-.0112971	.07298
c.timew1w3#c.w1Folatecenter14p3	-.0002334	.0041955	-0.06	0.956	-.0084576	.00799
c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0420481	.0512073	-0.82	0.412	-.1424145	.05831
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0143029	.0100366	1.43	0.154	-.0053689	.03397
_cons	19.01451	.6899334	27.56	0.000	17.66211	20.366

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.131354	.1571858	.0125847	1.371015
sd(_cons)	3.85765	.0984675	3.669406	4.055552
sd(Residual)	3.004246	.0945042	2.824615	3.195301

```

110 .
111 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4gobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates                    Imputations = 5  
 Mixed-effects ML regression                    Number of obs = 2,717

Group variable: HNDID Number of groups = 1,443  
 Obs per group:  
     min = 1  
     avg = 1.9  
     max = 2  
 Average RVI = 0.0651  
 Largest FMI = 0.4649  
 DF adjustment: Large sample DF: min = 22.70  
     avg = 158,590.79  
     max = 2312523.82  
 Model F test: Equal FMI F( 47,41987.5) = 10.76  
 Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0209394	.0528293	0.40	0.692	.0826046	.12448
w1Agecent48	-.0085429	.0064535	-1.32	0.186	-.021192	.00410
c.timew1w3#c.w1Agecent48	-.0032	.0012966	-2.47	0.014	-.0057415	-.00065
timew1w3	0 (omitted)					
Sex						
Men	.1888847	.1134365	1.67	0.096	-.0334522	.41122
Sex#c.timew1w3						
Men	-.0396349	.022504	-1.76	0.078	-.0837426	.00447
timew1w3	0 (omitted)					
Race						
AfrAm	-.2894994	.1124876	-2.57	0.010	-.5100425	-.06895
Race#c.timew1w3						
AfrAm	-.0143137	.0222198	-0.64	0.519	-.0578638	.02923
timew1w3	0 (omitted)					
PovStat						
Below	-.0916081	.1136722	-0.81	0.420	-.3144086	.13119
PovStat#c.timew1w3						
Below	-.0204603	.0222445	-0.92	0.358	-.064059	.02313
timew1w3	0 (omitted)					
w1edubr						
2	-.096693	.2230905	-0.43	0.665	-.5339545	.34056
3	.17099	.2421829	0.71	0.480	-.3037018	.64568
w1edubr#c.timew1w3						
2	-.0042644	.0428905	-0.10	0.921	-.0883285	.07979
3	-.0219183	.0470116	-0.47	0.641	-.1140608	.07022
timew1w3	0 (omitted)					
w1WRATtotalcent42	.111887	.0075973	14.73	0.000	.0969951	.12677
c.timew1w3#c.w1WRATtotalcent42	.0001934	.0015056	0.13	0.898	-.0027576	.00314
timew1w3	0 (omitted)					
1.w1smoke	.1891061	.1232153	1.53	0.127	-.0544818	.4326

w1smoke#c.timew1w3							
	1	-.013133	.0250178	-0.52	0.600	-.0622531	.03598
timew1w3		0	(omitted)				
1.w1currdrugs		.4085733	.1771861	2.31	0.031	.0417664	.77538
w1currdrugs#c.timew1w3							
	1	-.0070161	.030365	-0.23	0.817	-.0667889	.05275
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0011771	.0048346	0.24	0.808	-.0083663	.01072
c.timew1w3#c.w1hei2010_total_scorecent43		.0001718	.0011241	0.15	0.879	-.0020549	.00239
timew1w3		0	(omitted)				
w1BMICent30		-.0081332	.007955	-1.02	0.307	-.0237344	.0074
c.timew1w3#c.w1BMICent30		-.0016641	.0015585	-1.07	0.286	-.004719	.00139
timew1w3		0	(omitted)				
w1SRH							
	2	-.0049223	.1449707	-0.03	0.973	-.2890608	.27921
	3	.0687096	.1568845	0.44	0.661	-.2388184	.37623
w1SRH#c.timew1w3							
	2	.0254673	.0292737	0.87	0.384	-.0319083	.08284
	3	.0166948	.0316039	0.53	0.597	-.0452519	.07864
timew1w3		0	(omitted)				
w1CEScent15							
	0	(omitted)					
-.0045068		.0050741	-0.89	0.374	-.014453	.00543	
c.timew1w3#c.w1CEScent15		.0000873	.0010291	0.08	0.932	-.00193	.00210
timew1w3		0	(omitted)				
w1dxHTN							
Yes		.067157	.1203277	0.56	0.577	-.1687091	.30302
w1dxHTN#c.timew1w3							
Yes		-.0017304	.0249275	-0.07	0.945	-.0506079	.0471
timew1w3		0	(omitted)				
w1dxDiabetes							
preDiabetes		-.0885121	.1405227	-0.63	0.529	-.3640499	.18702
Diabetes		-.0661901	.168635	-0.39	0.695	-.3974808	.26510
w1dxDiabetes#c.timew1w3							
preDiabetes		.0292156	.0283188	1.03	0.302	-.0262901	.08472
Diabetes		.0025449	.0348178	0.07	0.942	-.0657949	.07088
timew1w3		0	(omitted)				
w1CVhighChol							
Yes		-.092588	.1351368	-0.69	0.494	-.3597109	.1745
w1CVhighChol#c.timew1w3							
Yes		.0095235	.0282573	0.34	0.736	-.0460249	.06507
timew1w3		0	(omitted)				
1.w1cvdbr		-.1222601	.1463088	-0.84	0.404	-.4094556	.16493

w1cvdbr#c.timew1w3							
	1	-.0025427	.0302622	-0.08	0.933	-.0618735	.05678
timew1w3		0	(omitted)				
invmillsmms		.0059339	.0034186	1.74	0.083	-.0007665	.01263
c.timew1w3#c.invmillsmms		-.0005281	.0006207	-0.85	0.395	-.0017447	.00068
timew1w3		0	(omitted)				
w1HCYcenter2p15		-.0130178	.1785278	-0.07	0.942	-.3629376	.3365
c.timew1w3#c.w1HCYcenter2p15		-.0272801	.0354297	-0.77	0.441	-.0967212	.04218
w1Folatecenter14p3		.0064284	.0086484	0.74	0.457	-.010543	.02339
c.timew1w3#c.w1Folatecenter14p3		-.0008644	.0016762	-0.52	0.606	-.00415	.00242
c.w1HCYcenter2p15#c.w1Folatecenter14p3		-.0129244	.0203175	-0.64	0.525	-.0527494	.02696
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		.0028153	.004055	0.69	0.488	-.0051323	.01076
_cons		7.198597	.2692432	26.74	0.000	6.670852	7.7263

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.089931	.0357927	.0412218	.1961969
sd(_cons)	1.512253	.0391584	1.437417	1.590985
sd(Residual)	1.154984	.0374426	1.083881	1.230752

112 .  
113 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta  
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010\_total\_scorecent43 c.timew1w3##c.w1BMIcon  
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///  
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///  
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,704

Group variable: HNDID

Number of groups	=	1,444
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0704
Largest FMI	=	0.5273

DF adjustment: Large sample

DF:	min	=	17.61
	avg	=	3.41e+07
	max	=	1.72e+09

Model F test: Equal FMI

F( 47, 35960.9)	=	15.03
Prob > F	=	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0255026	.0551026	-0.46	0.644	-.1335284 .08252
w1Agecent48	-.0171535	.006255	-2.74	0.006	-.0294151 -.00489
c.timew1w3#c.w1Agecent48	-.0015245	.0013302	-1.15	0.252	-.0041316 .00108
timew1w3	0 (omitted)				
Sex Men	-.0772611	.1089621	-0.71	0.478	-.2908265 .13638
Sex#c.timew1w3 Men	-.0239252	.0231434	-1.03	0.301	-.0692856 .02143
timew1w3	0 (omitted)				
Race AfrAm	-.5225314	.1063446	-4.91	0.000	-.7309637 -.31406
Race#c.timew1w3 AfrAm	-.0276971	.0228863	-1.21	0.226	-.0725537 .01715
timew1w3	0 (omitted)				
PovStat Below	-.0954735	.1094626	-0.87	0.383	-.3100291 .11968
PovStat#c.timew1w3 Below	-.001853	.0229324	-0.08	0.936	-.0468004 .04309
timew1w3	0 (omitted)				
w1edubr 2	-.1974289	.2141111	-0.92	0.356	-.6170854 .22222
3	.1416533	.2326186	0.61	0.543	-.3142788 .59758
w1edubr#c.timew1w3 2	.0552544	.044101	1.25	0.210	-.0311822 .14166
3	.0250437	.0482776	0.52	0.604	-.0695789 .11966
timew1w3	0 (omitted)				
w1WRATtotalcent42	.1222983	.0072791	16.80	0.000	.1080315 .13654
c.timew1w3#c.w1WRATtotalcent42	-.0019206	.0015578	-1.23	0.218	-.0049739 .00113
timew1w3	0 (omitted)				
1.w1smoke	.0075968	.1250197	0.06	0.952	-.2413292 .25652
w1smoke#c.timew1w3 1	-.0008309	.0280053	-0.03	0.976	-.0565218 .05428
timew1w3	0 (omitted)				
1.w1currdrugs	.087573	.1450615	0.60	0.547	-.1992779 .37444
w1currdrugs#c.timew1w3 1	.0316888	.0304759	1.04	0.299	-.0281443 .09152
timew1w3	0 (omitted)				
w1hei2010_total_scorecent43	-.0017749	.0051506	-0.34	0.732	-.012107 .00855
c.timew1w3#c.w1hei2010_total_scorecent43	.0012115	.0011961	1.01	0.315	-.001176 .00359

	timew1w3	0	(omitted)				
w1BMICent30		-.0025022	.0076452	-0.33	0.743	-.0174945	.01249
c.timew1w3#c.w1BMICent30		-.0028367	.0016159	-1.76	0.079	-.0060046	.00033
	timew1w3	0	(omitted)				
w1SRH							
2		-.0067171	.1402164	-0.05	0.962	-.281557	.26812
3		.117105	.154203	0.76	0.448	-.1854527	.41966
w1SRH#c.timew1w3							
2		-.0221865	.0301091	-0.74	0.461	-.0812002	.03682
3		-.0269957	.0325208	-0.83	0.406	-.0907402	.03674
	timew1w3	0	(omitted)				
w1CEScent15		-.0031195	.0048429	-0.64	0.519	-.0126115	.00637
c.timew1w3#c.w1CEScent15		-.0009878	.0010453	-0.94	0.345	-.0030366	.00106
	timew1w3	0	(omitted)				
w1dxHTN							
Yes		-.0509344	.1174981	-0.43	0.665	-.2813437	.1794
w1dxHTN#c.timew1w3							
Yes		.0082197	.0254792	0.32	0.747	-.0417253	.05818
	timew1w3	0	(omitted)				
w1dxDiabetes							
preDiabetes		.2449895	.1341593	1.83	0.068	-.017977	.5079
Diabetes		-.1192496	.169071	-0.71	0.482	-.4529442	.21444
w1dxDiabetes#c.timew1w3							
preDiabetes		.0025273	.0291993	0.09	0.931	-.054704	.05975
Diabetes		-.0141933	.0355641	-0.40	0.690	-.0839544	.05556
	timew1w3	0	(omitted)				
w1CVhighChol							
Yes		-.0665577	.1276697	-0.52	0.602	-.3175683	.18444
w1CVhighChol#c.timew1w3							
Yes		.0281496	.0303183	0.93	0.355	-.0317527	.0888
	timew1w3	0	(omitted)				
1.w1cvdbr		-.0177067	.1900298	-0.09	0.927	-.417573	.38215
w1cvdbr#c.timew1w3							
1		.0274812	.0343923	0.80	0.426	-.0407984	.09576
	timew1w3	0	(omitted)				
invmillsmms		.0048976	.0032792	1.49	0.135	-.0015294	.01132
c.timew1w3#c.invmillsmms		-.0003729	.0006381	-0.58	0.559	-.0016236	.00087
	timew1w3	0	(omitted)				
w1HCYcenter2p15		.0390713	.1706666	0.23	0.819	-.2954309	.37357
c.timew1w3#c.w1HCYcenter2p15		-.0014926	.0363633	-0.04	0.967	-.0727635	.06977

w1Folatecenter14p3	.0107197	.0082791	1.29	0.196	-.0055187	.0269
c.timew1w3#c.w1Folatecenter14p3	-.0012816	.001722	-0.74	0.457	-.0046569	.00209
c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0011628	.0193691	0.06	0.952	-.0367999	.03912
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0057979	.0041737	-1.39	0.165	-.0139783	.00238
_cons	5.921381	.263386	22.48	0.000	5.404811	6.4379

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	1.52e-06	.0005938	0 .
sd(_cons)	1.341261	.0388435	1.267249 1.419595
sd(Residual)	1.233872	.0246883	1.18642 1.283221

```

114 .
115 . mi estimate: mixed clock_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMICent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,767
Number of groups = 1,445
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0489
Largest FMI = 0.2833
DF: min = 59.39
    avg = 823,687.38
    max = 2.15e+07
F( 47,71356.2) = 5.33
Prob > F = 0.0000

```

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0658457	.0423489	-1.55	0.120	-.148874 .01718
w1Agecent48	-.0040339	.0038541	-1.05	0.295	-.0115878 .00352
c.timew1w3#c.w1Agecent48	-.0009598	.0010231	-0.94	0.348	-.0029651 .00104
timew1w3	0 (omitted)				
Sex					
Men	.0619351	.0673835	0.92	0.358	-.0701341 .19400
Sex#c.timew1w3					
Men	.0184561	.0176942	1.04	0.297	-.0162245 .05313
timew1w3	0 (omitted)				
Race					

AfrAm		<b>- .319829</b>	<b>.0662859</b>	<b>-4.82</b>	<b>0.000</b>	<b>- .4497476</b>	<b>- .18991</b>
Race#c.timew1w3							
AfrAm		<b>.0193273</b>	<b>.0175418</b>	<b>1.10</b>	<b>0.271</b>	<b>- .0150543</b>	<b>.05376</b>
timew1w3			<b>0</b>	(omitted)			
PovStat							
Below		<b>.0675756</b>	<b>.0680085</b>	<b>0.99</b>	<b>0.320</b>	<b>- .0657189</b>	<b>.206</b>
PovStat#c.timew1w3							
Below		<b>- .0020624</b>	<b>.017551</b>	<b>-0.12</b>	<b>0.906</b>	<b>- .0364618</b>	<b>.03233</b>
timew1w3			<b>0</b>	(omitted)			
w1edubr							
2		<b>-.0304938</b>	<b>.1363698</b>	<b>-0.22</b>	<b>0.823</b>	<b>- .2978694</b>	<b>.23688</b>
3		<b>.1610583</b>	<b>.1478221</b>	<b>1.09</b>	<b>0.276</b>	<b>- .1287414</b>	<b>.45085</b>
w1edubr#c.timew1w3							
2		<b>.046036</b>	<b>.0343942</b>	<b>1.34</b>	<b>0.181</b>	<b>- .0213846</b>	<b>.11345</b>
3		<b>.0561547</b>	<b>.0376673</b>	<b>1.49</b>	<b>0.136</b>	<b>- .0176819</b>	<b>.12999</b>
timew1w3		<b>0</b>	(omitted)				
w1WRATtotalcent42		<b>.0277429</b>	<b>.0045828</b>	<b>6.05</b>	<b>0.000</b>	<b>.0187595</b>	<b>.03672</b>
c.timew1w3#c.w1WRATtotalcent42		<b>-.0011887</b>	<b>.0012006</b>	<b>-0.99</b>	<b>0.322</b>	<b>- .0035427</b>	<b>.00118</b>
timew1w3		<b>0</b>	(omitted)				
1.w1smoke		<b>-.0283537</b>	<b>.0751792</b>	<b>-0.38</b>	<b>0.706</b>	<b>- .1763472</b>	<b>.11963</b>
w1smoke#c.timew1w3							
1		<b>.0104858</b>	<b>.019857</b>	<b>0.53</b>	<b>0.598</b>	<b>- .0285422</b>	<b>.04951</b>
timew1w3		<b>0</b>	(omitted)				
1.w1currdrugs		<b>.3136144</b>	<b>.0942128</b>	<b>3.33</b>	<b>0.001</b>	<b>.1267928</b>	<b>.5004</b>
w1currdrugs#c.timew1w3							
1		<b>-.0569987</b>	<b>.0225873</b>	<b>-2.52</b>	<b>0.012</b>	<b>- .1012795</b>	<b>- .0122</b>
timew1w3		<b>0</b>	(omitted)				
w1hei2010_total_scorecent43		<b>.0015835</b>	<b>.0030481</b>	<b>0.52</b>	<b>0.604</b>	<b>- .0044124</b>	<b>.00757</b>
c.timew1w3#c.w1hei2010_total_scorecent43		<b>.0005483</b>	<b>.0008606</b>	<b>0.64</b>	<b>0.525</b>	<b>- .0011508</b>	<b>.00224</b>
timew1w3		<b>0</b>	(omitted)				
w1BMIcent30		<b>-.0051477</b>	<b>.0047255</b>	<b>-1.09</b>	<b>0.276</b>	<b>- .0144107</b>	<b>.00411</b>
c.timew1w3#c.w1BMIcent30		<b>.0014007</b>	<b>.0012194</b>	<b>1.15</b>	<b>0.251</b>	<b>- .0009893</b>	<b>.00379</b>
timew1w3		<b>0</b>	(omitted)				
w1SRH							
2		<b>.1587804</b>	<b>.0871892</b>	<b>1.82</b>	<b>0.069</b>	<b>- .0121099</b>	<b>.32967</b>
3		<b>-.013706</b>	<b>.0938961</b>	<b>-0.15</b>	<b>0.884</b>	<b>- .1977433</b>	<b>.17033</b>
w1SRH#c.timew1w3							
2		<b>.0046611</b>	<b>.0230241</b>	<b>0.20</b>	<b>0.840</b>	<b>- .0404653</b>	<b>.04978</b>
3		<b>.0172981</b>	<b>.0246869</b>	<b>0.70</b>	<b>0.483</b>	<b>- .0310886</b>	<b>.06568</b>
timew1w3		<b>0</b>	(omitted)				
w1CEScent15		<b>-.0065605</b>	<b>.0030448</b>	<b>-2.15</b>	<b>0.031</b>	<b>- .0125285</b>	<b>- .00059</b>

c.timew1w3#c.w1CEScent15	.0006665	.0008049	0.83	0.408	-.0009112	.00224
timew1w3	0 (omitted)					
w1dxHTN						
Yes	.0603995	.0748032	0.81	0.420	-.086401	.20
w1dxHTN#c.timew1w3						
Yes	-.0367134	.0195051	-1.88	0.060	-.0749539	.00152
timew1w3	0 (omitted)					
w1dxDiabetes						
preDiabetes						
Diabetes	-.0534085	.0846462	-0.63	0.528	-.2193531	.1125
	.0593764	.109325	0.54	0.588	-.1575981	.27635
w1dxDiabetes#c.timew1w3						
preDiabetes						
Diabetes	.0182581	.022341	0.82	0.414	-.0255346	.06205
	-.0474907	.0273724	-1.73	0.083	-.1012392	.00625
timew1w3	0 (omitted)					
w1CVhighChol						
Yes	-.0664876	.0896604	-0.74	0.461	-.245873	.11289
w1CVhighChol#c.timew1w3						
Yes	.0088951	.0222817	0.40	0.690	-.0349228	.05271
timew1w3	0 (omitted)					
1.w1cvdbr	-.0820287	.0909455	-0.90	0.367	-.2605069	.09644
w1cvdbr#c.timew1w3						
1	.000252	.025729	0.01	0.992	-.0506218	.05112
timew1w3	0 (omitted)					
invmillsmms	.0007207	.0020668	0.35	0.727	-.0033302	.00477
c.timew1w3#c.invmillsmms	-.0002679	.0004959	-0.54	0.589	-.0012398	.0007
timew1w3	0 (omitted)					
w1HCYcenter2p15	.0128869	.1066685	0.12	0.904	-.1961874	.22196
c.timew1w3#c.w1HCYcenter2p15	-.0492595	.0277798	-1.77	0.076	-.103707	.00518
w1Folatecenter14p3	.0065873	.0051919	1.27	0.205	-.0035957	.01677
c.timew1w3#c.w1Folatecenter14p3	-.0004905	.0013341	-0.37	0.713	-.0031055	.00212
c.w1HCYcenter2p15#c.w1Folatecenter14p3	.0244782	.0121765	2.01	0.044	.0006085	.0483
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3	-.0052618	.0032161	-1.64	0.102	-.0115652	.00104
_cons	8.788383	.1638006	53.65	0.000	8.467262	9.1095

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0336187	.0423234	.0028509	.3964476
sd(_cons)	.6187232	.0306236	.5615214	.6817522
sd(Residual)	.9617291	.0244926	.9149028	1.010952

116 .

```
117 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4jobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	2,701
Group variable: HNDID	Number of groups	=	1,428
	Obs per group:		
	min	=	1
	avg	=	1.9
	max	=	2
	Average RVI	=	0.0459
	Largest FMI	=	0.3238
DF adjustment: Large sample	DF:	min	= 45.96
		avg	= 4992694.17
		max	= 1.72e+08
Model F test: Equal FMI	F( 47, 80468.5)	=	10.95
	Prob > F	=	0.0000

	LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0091924	.0111292	0.83	0.409	.0126213	.03100
w1Agecent48	.0104606	.0011871	8.81	0.000	.008134	.01278
c.timew1w3#c.w1Agecent48	.0005476	.0002676	2.05	0.041	.0000231	.00107
timew1w3	0	(omitted)				
Sex						
Men	.0952756	.0208465	4.57	0.000	.0544171	.13613
Sex#c.timew1w3						
Men	.0020357	.0046549	0.44	0.662	-.0070878	.01115
timew1w3	0	(omitted)				
Race						
AfrAm	.1614337	.0204073	7.91	0.000	.1214361	.20143
Race#c.timew1w3						
AfrAm	-.0012458	.0045963	-0.27	0.786	-.0102545	.00776
timew1w3	0	(omitted)				
PovStat						
Below	.0506158	.0209696	2.41	0.016	.009516	.09171
PovStat#c.timew1w3						

	Below	.0000886	.004606	0.02	0.985	-.0089391	.00911
	timew1w3	0 (omitted)					
	w1edubr						
	2	-.0637673	.0424263	-1.50	0.133	-.1469678	.01943
	3	-.0544054	.0460256	-1.18	0.237	-.1446705	.03585
	w1edubr#c.timew1w3						
	2	-.0064484	.0090814	-0.71	0.478	-.0242498	.01135
	3	-.0082702	.0099619	-0.83	0.406	-.027799	.01125
	timew1w3	0 (omitted)					
	w1WRATtotalcent42	-.0072463	.0014217	-5.10	0.000	-.0100327	-.00441
	c.timew1w3#c.w1WRATtotalcent42	-.0004511	.0003171	-1.42	0.155	-.0010727	.00017
	timew1w3	0 (omitted)					
	1.w1smoke	-.0072363	.0234444	-0.31	0.758	-.0536067	.03913
	w1smoke#c.timew1w3						
	1	.0030098	.0051215	0.59	0.557	-.0070337	.01305
	timew1w3	0 (omitted)					
	1.w1currdrugs	.0450668	.0269649	1.67	0.096	-.0079681	.09818
	w1currdrugs#c.timew1w3						
	1	-.0066867	.0061096	-1.09	0.274	-.0186789	.00538
	timew1w3	0 (omitted)					
	w1hei2010_total_scorecent43	.0003226	.0010136	0.32	0.752	-.0017173	.00236
	c.timew1w3#c.w1hei2010_total_scorecent43	.0001583	.000232	0.68	0.496	-.0003007	.00061
	timew1w3	0 (omitted)					
	w1BMIcon30	.0016688	.0014617	1.14	0.254	-.0011971	.00453
	c.timew1w3#c.w1BMIcon30	-.0005194	.0003198	-1.62	0.104	-.0011462	.00016
	timew1w3	0 (omitted)					
	w1SRH						
	2	-.0730317	.0269439	-2.71	0.007	-.1258408	-.02022
	3	-.0589578	.028991	-2.03	0.042	-.1157795	-.00213
	w1SRH#c.timew1w3						
	2	.000209	.0061255	0.03	0.973	-.0117969	.01221
	3	-.0025337	.0065553	-0.39	0.699	-.0153821	.01031
	timew1w3	0 (omitted)					
	w1CEScent15						
	timew1w3	.0016479	.0009375	1.76	0.079	-.0001897	.00348
	c.timew1w3#c.w1CEScent15	.0003521	.0002109	1.67	0.095	-.0000612	.00076
	timew1w3	0 (omitted)					
	w1dxHTN						
	Yes	-.0156834	.0232679	-0.67	0.501	-.061419	.03005
	w1dxHTN#c.timew1w3						
	Yes	.0056833	.0051589	1.10	0.271	-.0044317	.01579
	timew1w3	0 (omitted)					

w1dxDiabetes						
preDiabetes	.0167304	.0265416	0.63	0.529	-.0353517	.06881
Diabetes	.0378643	.0328308	1.15	0.251	-.0270215	.10275
w1dxDiabetes#c.timew1w3						
preDiabetes	.0033025	.0058789	0.56	0.574	-.0082202	.01482
Diabetes	-.0029158	.0069951	-0.42	0.677	-.0166261	.01079
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.0197457	.0278097	-0.71	0.481	-.075725	.03623
w1CVhighChol#c.timew1w3						
Yes	.0055577	.005852	0.95	0.343	-.0059418	.01705
timew1w3	0	(omitted)				
1.w1cvdbr	.0119813	.0280368	0.43	0.669	-.0431422	.06710
w1cvdbr#c.timew1w3						
1	.0042607	.0066142	0.64	0.520	-.0087738	.01729
timew1w3	0	(omitted)				
invmillsmms	.0003875	.0006244	0.62	0.535	-.0008362	.00161
c.timew1w3#c.invmillsmms						
	-.000155	.0001277	-1.21	0.225	-.0004053	.00009
timew1w3	0	(omitted)				
w1HCYcenter2p15	.0638133	.0331457	1.93	0.054	-.0011513	.12877
c.timew1w3#c.w1HCYcenter2p15						
	-.0074088	.0074729	-0.99	0.321	-.0220561	.00723
w1Folatecenter14p3						
	-.0011442	.001581	-0.72	0.469	-.0042429	.00195
c.timew1w3#c.w1Folatecenter14p3						
	.0000318	.0003592	0.09	0.929	-.0006726	.00073
c.w1HCYcenter2p15#c.w1Folatecenter14p3						
	-.0066299	.0039688	-1.67	0.095	-.0144093	.00114
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3						
	.0030822	.0009188	3.35	0.001	.0012813	.0048
_cons	3.412493	.0514	66.39	0.000	3.311663	3.513

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0202364	.0065481	.0107324 .0381564
sd(_cons)	.2525215	.0077283	.2378197 .2681321
sd(Residual)	.2378709	.0076037	.2234252 .2532506

```

118 .
119 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcon
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1Folatecenter14p3 ///
> if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,609
Number of groups = 1,414
Obs per group:
min = 1
avg = 1.8
max = 2
Average RVI = 0.0498
Largest FMI = 0.3012
DF: min = 52.80
avg = 2.98e+08
max = 1.52e+10
F( 47,68791.6) = 17.81
Prob > F = 0.0000

```

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0105035	.0171664	0.61	0.541	.0231581	.04418
w1Agecent48	.0148342	.0018783	7.90	0.000	.0111528	.01851
c.timew1w3#c.w1Agecent48	.0005075	.0003993	1.27	0.204	-.000275	.00129
timew1w3	0 (omitted)					
Sex						
Men	.0599129	.0331065	1.81	0.070	-.0049751	.1248
Sex#c.timew1w3						
Men	-.0032702	.0069778	-0.47	0.639	-.0169469	.01046
timew1w3	0 (omitted)					
Race						
AfrAm	.3362749	.032392	10.38	0.000	.2727875	.39976
Race#c.timew1w3						
AfrAm	-.0002276	.0069358	-0.03	0.974	-.0138216	.01336
timew1w3	0 (omitted)					
PovStat						
Below	.0995067	.0333595	2.98	0.003	.0341223	.16489
PovStat#c.timew1w3						
Below	.000898	.0069549	0.13	0.897	-.0127337	.01452
timew1w3	0 (omitted)					
w1edubr						
2	-.1055996	.0662945	-1.59	0.111	-.2355404	.02434
3	-.1876067	.0713672	-2.63	0.009	-.3274839	-.04772
w1edubr#c.timew1w3						
2	-.0062449	.0138894	-0.45	0.653	-.0334714	.02098

	3		-.0071226	.0150458	-0.47	0.636	-.0366146	.02238
	timew1w3	0	(omitted)					
w1WRATtotalcent42		-.024811	.0022794	-10.88	0.000	-.0292788	-.02034	
c.timew1w3#c.w1WRATtotalcent42		-.0002426	.0004959	-0.49	0.625	-.0012146	.00072	
	timew1w3	0	(omitted)					
1.w1smoke		-.0071767	.0379403	-0.19	0.850	-.0826429	.06828	
w1smoke#c.timew1w3	1	.0084091	.0082237	1.02	0.308	-.007824	.02464	
	timew1w3	0	(omitted)					
1.w1currdrugs		-.0310393	.0450453	-0.69	0.493	-.1205288	.05845	
w1currdrugs#c.timew1w3	1	-.004266	.0096145	-0.44	0.658	-.0232387	.01476	
	timew1w3	0	(omitted)					
w1hei2010_total_scorecent43		.0007034	.0014445	0.49	0.627	-.0021473	.00355	
c.timew1w3#c.w1hei2010_total_scorecent43		-.0000979	.0003756	-0.26	0.795	-.0008514	.00065	
	timew1w3	0	(omitted)					
w1BMIcontent30		-.0009126	.0022875	-0.40	0.690	-.005396	.00357	
c.timew1w3#c.w1BMIcontent30		-.000531	.0004824	-1.10	0.271	-.0014765	.00041	
	timew1w3	0	(omitted)					
w1SRH	2	-.1437226	.0431554	-3.33	0.001	-.228318	-.05912	
	3	-.0874009	.0465673	-1.88	0.061	-.1786954	.00389	
w1SRH#c.timew1w3	2	.0029649	.0093433	0.32	0.751	-.0153488	.02127	
	3	-.0019074	.0101645	-0.19	0.851	-.0218369	.01868	
	timew1w3	0	(omitted)					
w1CEScent15		.0068368	.0015331	4.46	0.000	.0038273	.00984	
c.timew1w3#c.w1CEScent15		-.0000586	.0003215	-0.18	0.855	-.0006888	.00057	
	timew1w3	0	(omitted)					
w1dxHTN	Yes	.0233092	.0358296	0.65	0.515	-.0469562	.09357	
w1dxHTN#c.timew1w3	Yes	-.0033334	.0076325	-0.44	0.662	-.0182928	.01162	
	timew1w3	0	(omitted)					
w1dxDiabetes								
preDiabetes		.0706587	.0413373	1.71	0.087	-.010384	.15170	
Diabetes		.1018894	.0501033	2.03	0.043	.0033781	.20048	
w1dxDiabetes#c.timew1w3								
preDiabetes		-.0105583	.008789	-1.20	0.230	-.0277845	.00666	
Diabetes		.0011047	.0108214	0.10	0.919	-.0201141	.02232	
	timew1w3	0	(omitted)					

w1CVhighChol Yes		<b>- .0003527</b>	<b>.0392049</b>	<b>-0.01</b>	<b>0.993</b>	<b>- .0775406</b>	<b>.07683</b>	
w1CVhighChol#c.timew1w3 Yes		<b>- .0024457</b>	<b>.0084343</b>	<b>-0.29</b>	<b>0.772</b>	<b>- .0189767</b>	<b>.01408</b>	
timew1w3 1.w1cvdbr		<b>0</b> <i>(omitted)</i>	<b>-.0627714</b>	<b>.0429773</b>	<b>-1.46</b>	<b>0.144</b>	<b>- .1470789</b>	<b>.02153</b>
w1cvdbr#c.timew1w3 1		<b>.0169763</b>	<b>.0093298</b>	<b>1.82</b>	<b>0.069</b>	<b>- .0013139</b>	<b>.03528</b>	
timew1w3 invmillsmms		<b>0</b> <i>(omitted)</i>	<b>-.0024798</b>	<b>.0009915</b>	<b>-2.50</b>	<b>0.012</b>	<b>- .004423</b>	<b>-.00053</b>
c.timew1w3#c.invmillsmms		<b>-.0003227</b>	<b>.0004784</b>	<b>-0.67</b>	<b>0.500</b>	<b>- .0012604</b>	<b>.00061</b>	
timew1w3 w1HCYcenter2p15		<b>0</b> <i>(omitted)</i>	<b>.0610157</b>	<b>.0526853</b>	<b>1.16</b>	<b>0.247</b>	<b>- .0422476</b>	<b>.1642</b>
c.timew1w3#c.w1HCYcenter2p15		<b>.0124383</b>	<b>.0110155</b>	<b>1.13</b>	<b>0.259</b>	<b>- .0091518</b>	<b>.03402</b>	
w1Folatecenter14p3		<b>.0027423</b>	<b>.0025986</b>	<b>1.06</b>	<b>0.292</b>	<b>- .0023606</b>	<b>.00784</b>	
c.timew1w3#c.w1Folatecenter14p3		<b>.0001429</b>	<b>.0005288</b>	<b>0.27</b>	<b>0.787</b>	<b>- .0008938</b>	<b>.00117</b>	
c.w1HCYcenter2p15#c.w1Folatecenter14p3		<b>.0043992</b>	<b>.0063662</b>	<b>0.69</b>	<b>0.490</b>	<b>- .0080873</b>	<b>.01688</b>	
c.timew1w3#c.w1HCYcenter2p15#c.w1Folatecenter14p3		<b>-.0001394</b>	<b>.0013264</b>	<b>-0.11</b>	<b>0.916</b>	<b>- .0027392</b>	<b>.00248</b>	
_cons		<b>4.555696</b>	<b>.0809007</b>	<b>56.31</b>	<b>0.000</b>	<b>4.39706</b>	<b>4.7143</b>	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>2.39e-06</b>	<b>.0006728</b>	<b>1.5e-245</b>	<b>3.9e+233</b>
sd(_cons)	<b>.4158869</b>	<b>.0124009</b>	<b>.3922781</b>	<b>.4409166</b>
sd(Residual)	<b>.3601138</b>	<b>.0076873</b>	<b>.3453577</b>	<b>.3755004</b>

```

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

123 .
124 .

```

```

125 .
126 .
127 . ****TABLE S1: HOMOCYSTEINE AT BASELINE VS. COGNITIVE CHANGE OVER TIME: INTERACTION B
128 .
129 .
130 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
131 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5
Number of obs = 2,653

Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0086
Largest FMI = 0.1284
DF: min = 269.07
    avg = 3.63e+12
    max = 6.24e+13
F( 17,547929.0) = 11.44
Prob > F = 0.0000

```

	MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0160988	.0207862	-0.77	0.439	-.056839	.0246415
w1Agecent48	-.0250825	.0056726	-4.42	0.000	-.0362007	-.0139643
c.timew1w3#c.w1Agecent48	-.002477	.0011849	-2.09	0.037	-.0047993	-.0001546
timew1w3	0	(omitted)				
Sex Men	-.3450745	.1063612	-3.24	0.001	-.5535386	-.1366104
Sex#c.timew1w3 Men	.0232488	.0221952	1.05	0.295	-.020253	.0667506
timew1w3	0	(omitted)				
Race AfrAm	-.7851701	.1037202	-7.57	0.000	-.9884579	-.5818823
Race#c.timew1w3 AfrAm	.0049716	.0218661	0.23	0.820	-.0378851	.0478284
timew1w3	0	(omitted)				
PovStat Below	-.5362151	.1059507	-5.06	0.000	-.7438745	-.3285556
PovStat#c.timew1w3 Below	-.0250499	.0217233	-1.15	0.249	-.0676267	.017527
timew1w3 invmillsmms	0	(omitted)				
invmillsmms	.0092907	.0033077	2.81	0.005	.0028076	.0157737
c.timew1w3#c.invmillsmms	-.0018896	.0006108	-3.09	0.002	-.0030868	-.0006924

timew1w3	<b>0</b>	(omitted)					
w1HCYcenter2p15	<b>-.2559486</b>	.1784831	-1.43	0.152	-.6057821	.0938849	
c.timew1w3#c.w1HCYcenter2p15	<b>-.0092217</b>	.0374367	-0.25	0.805	-.0825966	.0641533	
w1B12center522	<b>.0002503</b>	.0002423	1.03	0.302	-.0002248	.0007253	
c.timew1w3#c.w1B12center522	<b>-.0000767</b>	.0000504	-1.52	0.128	-.0001755	.0000222	
c.w1HCYcenter2p15#c.w1B12center522	<b>.0001043</b>	.0006818	0.15	0.879	-.0012382	.0014467	
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	<b>-.0000788</b>	.0001413	-0.56	0.577	-.0003559	.0001982	
_cons	<b>28.63198</b>	.0975666	293.46	0.000	28.44075	28.82321	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>1.77e-06</b>	.000396	<b>1.9e-197</b>	<b>1.6e+185</b>
sd(_cons)	<b>1.435949</b>	.0450298	<b>1.35035</b>	<b>1.526975</b>
sd(Residual)	<b>1.220722</b>	.0272203	<b>1.16852</b>	<b>1.275256</b>

```

132 .
133 .
134 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Number of imputations = 5
Number of observations = 2,653

Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0036
Largest FMI = 0.0363
DF: min = 3,142.07
    avg = 1.66e+15
    max = 3.46e+16
F( 17, 3.1e+06) = 13.41
Prob > F = 0.0000

```

MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	<b>-.2308387</b>	.1704864	-1.35	0.176	-.564986	.1033086
w1Agecent48	<b>-.2032276</b>	.0428329	-4.74	0.000	-.2871785	-.1192766
c.timew1w3#c.w1Agecent48	<b>-.019408</b>	.0097212	-2.00	0.046	-.0384613	-.0003547
timew1w3	<b>0</b>	(omitted)				
Sex						
Men	<b>-1.985641</b>	.8031074	-2.47	0.013	-3.559702	-.4115794
Sex#c.timew1w3						
Men	<b>.155201</b>	.1820596	0.85	0.394	-.2016292	.5120312

	timew1w3	0 (omitted)					
	Race						
	AfrAm	-6.971463	.7831786	-8.90	0.000	-8.506465	-5.436461
	Race#c.timew1w3						
	AfrAm	.1054722	.1793823	0.59	0.557	-.2461107	.4570552
	timew1w3	0 (omitted)					
	PovStat						
	Below	-4.121307	.8002732	-5.15	0.000	-5.689813	-2.5528
	PovStat#c.timew1w3						
	Below	-.2675019	.178227	-1.50	0.133	-.6168205	.0818167
	timew1w3	0 (omitted)					
	invmillsmms	.0534492	.0249823	2.14	0.032	.0044848	.1024136
	c.timew1w3#c.invmillsmms	-.0097703	.0050315	-1.94	0.052	-.0196318	.0000912
	timew1w3	0 (omitted)					
	w1HCYcenter2p15	-1.430945	1.342204	-1.07	0.286	-4.06162	1.199731
	c.timew1w3#c.w1HCYcenter2p15	-.035189	.3068323	-0.11	0.909	-.6365701	.566192
	w1B12center522	.0012585	.0018246	0.69	0.490	-.0023178	.0048347
	c.timew1w3#c.w1B12center522	-.0004698	.0004126	-1.14	0.255	-.0012786	.000339
	c.w1HCYcenter2p15#c.w1B12center522	-.0009956	.004918	-0.20	0.840	-.0106383	.0086472
	c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.0003336	.0011499	-0.29	0.772	-.0025876	.0019205
	_cons	83.64443	.7347861	113.84	0.000	82.20427	85.08458

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000206	.0032326	8.1e-139	5.2e+128
sd(_cons)	10.0706	.3328785	9.438858	10.74463
sd(Residual)	10.05953	.2117066	9.653037	10.48315

135 .  
 136 .  
 137 .

```
138 . mi estimate: mixed cvltca c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,464
Number of groups = 1,420
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0093
Largest FMI = 0.1251
DF: min = 282.83
    avg = 1.71e+11
    max = 1.86e+12
F( 17,472562.5) = 77.31
Prob > F = 0.0000
```

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.147098	.0721778	-15.89	0.000	-1.288564 -1.005632
w1Agecent48	-.1580698	.0200384	-7.89	0.000	-.1973445 -.1187951
c.timew1w3#c.w1Agecent48	-.0070799	.004029	-1.76	0.079	-.0149766 .0008168
timew1w3	0 (omitted)				
Sex					
Men	-2.558152	.3744106	-6.83	0.000	-3.291984 -1.82432
Sex#c.timew1w3					
Men	-.1300943	.0754057	-1.73	0.084	-.2778867 .0176981
timew1w3	0 (omitted)				
Race					
AfrAm	-2.895968	.3667153	-7.90	0.000	-3.614721 -2.177215
Race#c.timew1w3					
AfrAm	.0909248	.0742365	1.22	0.221	-.0545761 .2364258
timew1w3	0 (omitted)				
PovStat					
Below	-1.694389	.3683464	-4.60	0.000	-2.416335 -.9724433
PovStat#c.timew1w3					
Below	-.0007882	.0722179	-0.01	0.991	-.1423325 .1407562
timew1w3	0 (omitted)				
invmillsmms	.0196897	.0111901	1.76	0.078	-.0022426 .041622
c.timew1w3#c.invmillsmms	-.00041	.0019924	-0.21	0.837	-.004315 .0034949
timew1w3	0 (omitted)				
w1HCYcenter2p15	.8108489	.6212313	1.31	0.192	-.4068958 2.028594
c.timew1w3#c.w1HCYcenter2p15	-.149381	.1259186	-1.19	0.235	-.3961771 .097415
w1B12center522	.0013696	.0008779	1.56	0.120	-.0003585 .0030977

c.timew1w3#c.w1B12center522	<b>-.0001468</b>	<b>.0001675</b>	<b>-0.88</b>	<b>0.381</b>	<b>-.0004751</b>	<b>.0001815</b>
c.w1HCYcenter2p15#c.w1B12center522	<b>-.0010061</b>	<b>.0022655</b>	<b>-0.44</b>	<b>0.657</b>	<b>-.0054533</b>	<b>.0034411</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	<b>-.0002659</b>	<b>.0004675</b>	<b>-0.57</b>	<b>0.570</b>	<b>-.0011822</b>	<b>.0006505</b>
_cons	<b>28.15018</b>	<b>.3477563</b>	<b>80.95</b>	<b>0.000</b>	<b>27.46857</b>	<b>28.83179</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>.244151</b>	<b>.1549485</b>	<b>.0703802</b>	<b>.8469675</b>
sd(_cons)	<b>4.948176</b>	<b>.1347041</b>	<b>4.691081</b>	<b>5.219362</b>
sd(Residual)	<b>3.779099</b>	<b>.135294</b>	<b>3.523017</b>	<b>4.053795</b>

```

139 .
140 .
141 .
142 . mi estimate: mixed CVLfrl c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4cobs==1 || HNDID:

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,339

Number of groups = 1,391
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0055
Largest FMI = 0.0419
DF: min = 2,371.34
    avg = 1.21e+12
    max = 1.69e+13
F( 17, 1.5e+06) = 47.63
Prob > F = 0.0000

```

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	<b>-.3517245</b>	<b>.0354485</b>	<b>-9.92</b>	<b>0.000</b>	<b>-.4212024</b>	<b>-.2822465</b>
w1Agecent48	<b>-.081843</b>	<b>.0093757</b>	<b>-8.73</b>	<b>0.000</b>	<b>-.1002192</b>	<b>-.0634669</b>
c.timew1w3#c.w1Agecent48	<b>-.0039914</b>	<b>.0019798</b>	<b>-2.02</b>	<b>0.044</b>	<b>-.0078717</b>	<b>-.0001111</b>
timew1w3	<b>0</b> (omitted)					
Sex						
Men	<b>-1.132953</b>	<b>.1755336</b>	<b>-6.45</b>	<b>0.000</b>	<b>-1.476993</b>	<b>-.7889137</b>
Sex#c.timew1w3						
Men	<b>-.0496124</b>	<b>.0366964</b>	<b>-1.35</b>	<b>0.176</b>	<b>-.1215361</b>	<b>.0223113</b>
timew1w3	<b>0</b> (omitted)					
Race						
AfrAm	<b>-1.566232</b>	<b>.171468</b>	<b>-9.13</b>	<b>0.000</b>	<b>-1.902303</b>	<b>-1.230161</b>

Race#c.timew1w3						
AfrAm	.0119611	.0362884	0.33	0.742	-.0591628	.083085
timew1w3	0	(omitted)				
PovStat						
Below	-.540363	.1723766	-3.13	0.002	-.878215	-.202511
PovStat#c.timew1w3						
Below	-.0309529	.0351776	-0.88	0.379	-.0998998	.037994
timew1w3	0	(omitted)				
invmillsmms	.0094228	.0051784	1.82	0.069	-.0007266	.0195722
c.timew1w3#c.invmillsmms	-.0003834	.0009402	-0.41	0.683	-.0022262	.0014594
timew1w3	0	(omitted)				
w1HCYcenter2p15	.270836	.2904897	0.93	0.351	-.2985207	.8401927
c.timew1w3#c.w1HCYcenter2p15	.0062713	.0614587	0.10	0.919	-.1141871	.1267297
w1B12center522	.0001196	.0003973	0.30	0.763	-.0006595	.0008987
c.timew1w3#c.w1B12center522	.0000923	.0000826	1.12	0.264	-.0000696	.0002541
c.w1HCYcenter2p15#c.w1B12center522	-.0009432	.0010485	-0.90	0.368	-.002999	.0011127
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.0000338	.0002284	-0.15	0.882	-.0004816	.000414
_cons	8.946723	.1624756	55.07	0.000	8.628276	9.26517

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Identity				
sd(_cons)	2.207529	.0644489	2.084757	2.33753
sd(Residual)	1.826557	.0421893	1.745712	1.911147

```

143 .
144 .
145 .
146 . mi estimate: mixed BVRtot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.t
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4dobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations = 5  
Number of obs = 2,751

Group variable: HNDID

	Number of groups =	1,443
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0218
	Largest FMI =	0.1773
DF adjustment:	Large sample	DF: min = 145.12
		avg = 1.37e+12
		max = 1.49e+13
Model F test:	Equal FMI	F( 17,88241.2) = 34.70
		Prob > F = 0.0000

	BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	.2443796	.0483017	5.06	0.000	.1497099 .3390493
	w1Agecent48	.132059	.0137643	9.59	0.000	.1050813 .1590367
	c.timew1w3#c.w1Agecent48	.007108	.002774	2.56	0.010	.0016711 .012545
	timew1w3	0	(omitted)			
	Sex Men	-1.062795	.2581917	-4.12	0.000	-1.568842 -.5567478
	Sex#c.timew1w3 Men	.0851165	.0517019	1.65	0.100	-.0162173 .1864503
	timew1w3	0	(omitted)			
	Race AfrAm	1.117946	.251751	4.44	0.000	.6245196 1.611373
	Race#c.timew1w3 AfrAm	.1723692	.0509091	3.39	0.001	.0725893 .2721492
	timew1w3	0	(omitted)			
	PovStat Below	1.185275	.2563035	4.62	0.000	.6829298 1.687621
	PovStat#c.timew1w3 Below	.0661692	.0505186	1.31	0.190	-.0328455 .1651838
	timew1w3 invmillsmms	0	(omitted)			
		-.0174012	.0080701	-2.16	0.031	-.0332184 -.0015841
	c.timew1w3#c.invmillsmms	-.0001786	.0014765	-0.12	0.904	-.0030724 .0027153
	timew1w3 w1HCYcenter2p15	0	(omitted)			
		.3462108	.4355123	0.79	0.427	-.5076539 1.200076
	c.timew1w3#c.w1HCYcenter2p15	.1178993	.0865443	1.36	0.173	-.051726 .2875246
	w1B12center522	0	(omitted)			
		-.0006701	.0006234	-1.07	0.284	-.0018993 .0005591
	c.timew1w3#c.w1B12center522	.0000247	.0001183	0.21	0.834	-.0002073 .0002567
	c.w1HCYcenter2p15#c.w1B12center522	.0010866	.0016867	0.64	0.520	-.002247 .0044203
	c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.000743	.000317	-2.34	0.019	-.0013643 -.0001217

	<u>_cons</u>	<b>5.777587</b>	<b>.2365002</b>	<b>24.43</b>	<b>0.000</b>	<b>5.314028</b>	<b>6.241146</b>
--	--------------	-----------------	-----------------	--------------	--------------	-----------------	-----------------

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>.1650373</b>	<b>.1158112</b>	<b>.0417129</b>	<b>.6529707</b>
sd(_cons)	<b>3.558915</b>	<b>.0951863</b>	<b>3.377158</b>	<b>3.750453</b>
sd(Residual)	<b>2.873145</b>	<b>.094342</b>	<b>2.694063</b>	<b>3.064132</b>

147 .  
 148 .  
 149 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat  
 > c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///  
 > if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,486
Group variable: HNDID	Number of groups = 1,418
	Obs per group:
	min = 1
	avg = 1.8
	max = 2
	Average RVI = 0.0059
	Largest FMI = 0.0553
DF adjustment: Large sample	DF: min = 1,375.02
	avg = 2.73e+12
	max = 5.23e+13
Model F test: Equal FMI	F( 17, 1.2e+06) = 10.68
	Prob > F = 0.0000

Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	<b>-.0476997</b>	<b>.0253363</b>	<b>-1.88</b>	<b>0.060</b>	<b>-.0973579</b>	<b>.0019585</b>
w1Agecent48	<b>-.0228208</b>	<b>.0065724</b>	<b>-3.47</b>	<b>0.001</b>	<b>-.0357026</b>	<b>-.009939</b>
c.timew1w3#c.w1Agecent48	<b>-.0028706</b>	<b>.0014367</b>	<b>-2.00</b>	<b>0.046</b>	<b>-.0056865</b>	<b>-.0000546</b>
timew1w3	<b>0</b> (omitted)					
Sex						
Men	<b>-.1937747</b>	<b>.124083</b>	<b>-1.56</b>	<b>0.118</b>	<b>-.436973</b>	<b>.0494235</b>
Sex#c.timew1w3						
Men	<b>-.0082533</b>	<b>.0269275</b>	<b>-0.31</b>	<b>0.759</b>	<b>-.0610303</b>	<b>.0445236</b>
timew1w3	<b>0</b> (omitted)					
Race						
AfrAm	<b>-.9661733</b>	<b>.120846</b>	<b>-8.00</b>	<b>0.000</b>	<b>-1.203027</b>	<b>-.7293195</b>
Race#c.timew1w3						
AfrAm	<b>.0185502</b>	<b>.0264547</b>	<b>0.70</b>	<b>0.483</b>	<b>-.0333001</b>	<b>.0704005</b>
timew1w3	<b>0</b> (omitted)					
PovStat						
Below	<b>-.4491612</b>	<b>.1223542</b>	<b>-3.67</b>	<b>0.000</b>	<b>-.6889709</b>	<b>-.2093514</b>

PovStat#c.timew1w3 Below	<b>- .0507389</b>	<b>.0261532</b>	<b>-1.94</b>	<b>0.052</b>	<b>- .1019982</b>	<b>.0005204</b>
timew1w3 invmillsmms	<b>0</b> (omitted)	<b>.0019968</b>	<b>.0037067</b>	<b>0.54</b>	<b>0.590</b>	<b>- .0052682</b>
c.timew1w3#c.invmillsmms	<b>- .0005621</b>	<b>.0007303</b>	<b>-0.77</b>	<b>0.441</b>	<b>- .0019934</b>	<b>.0008693</b>
timew1w3 w1HCYcenter2p15	<b>0</b> (omitted)	<b>-.131797</b>	<b>.21139</b>	<b>-0.62</b>	<b>0.533</b>	<b>- .5461153</b>
c.timew1w3#c.w1HCYcenter2p15	<b>- .0085935</b>	<b>.0467987</b>	<b>-0.18</b>	<b>0.854</b>	<b>- .1003183</b>	<b>.0831313</b>
w1B12center522	<b>.0004284</b>	<b>.0002821</b>	<b>1.52</b>	<b>0.129</b>	<b>- .0001245</b>	<b>.0009813</b>
c.timew1w3#c.w1B12center522	<b>.0000494</b>	<b>.0000612</b>	<b>0.81</b>	<b>0.420</b>	<b>- .0000705</b>	<b>.0001693</b>
c.w1HCYcenter2p15#c.w1B12center522	<b>.0006253</b>	<b>.0007783</b>	<b>0.80</b>	<b>0.422</b>	<b>- .0009013</b>	<b>.0021519</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	<b>- .0001405</b>	<b>.0001774</b>	<b>-0.79</b>	<b>0.428</b>	<b>- .0004886</b>	<b>.0002076</b>
<b>_cons</b>	<b>7.578592</b>	<b>.1130867</b>	<b>67.02</b>	<b>0.000</b>	<b>7.356946</b>	<b>7.800238</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	<b>.112932</b>	<b>.0392308</b>	<b>.057164</b>
sd(_cons)	<b>1.548333</b>	<b>.047089</b>	<b>1.458737</b>
sd(Residual)	<b>1.369453</b>	<b>.0467938</b>	<b>1.280743</b>
			<b>1.464308</b>

```

150 .
151 . mi estimate: mixed FluencyWord c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4fobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Number of groups = 1,446
Number of obs = 2,773
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0048
Largest FMI = 0.0387
DF: min = 2,767.77
    avg = 2.50e+11
    max = 3.94e+12
F( 17, 1.8e+06) = 10.28
Prob > F = 0.0000

```

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0781928	.0503575	1.55	0.120	-.0205062 .1768917
w1Agecent48	-.083358	.0155856	-5.35	0.000	-.1139052 -.0528108
c.timew1w3#c.w1Agecent48	-.0031412	.0028784	-1.09	0.275	-.0087827 .0025004
timew1w3	0 (omitted)				
Sex Men	1.096312	.2917211	3.76	0.000	.5245489 1.668075
Sex#c.timew1w3 Men	-.0085989	.0536193	-0.16	0.873	-.1136909 .096493
timew1w3	0 (omitted)				
Race AfrAm	-2.033573	.2849497	-7.14	0.000	-2.592064 -1.475082
Race#c.timew1w3 AfrAm	-.0436524	.0529517	-0.82	0.410	-.1474359 .0601311
timew1w3	0 (omitted)				
PovStat Below	-1.400591	.2906863	-4.82	0.000	-1.970325 -.8308559
PovStat#c.timew1w3 Below	.015783	.0524452	0.30	0.763	-.0870076 .1185736
timew1w3 invmillsmms	0 (omitted)	.0114002 .0092832	1.23	0.219	-.0067946 .029595
c.timew1w3#c.invmillsmms	-.0012783	.0015716	-0.81	0.416	-.0043586 .0018019
timew1w3 w1HCYcenter2p15	0 (omitted)	-.4337253 .4834804	-0.90	0.370	-1.381331 .5138802
c.timew1w3#c.w1HCYcenter2p15	-.0156988	.0894895	-0.18	0.861	-.1910959 .1596982
w1B12center522	.0010627	.0006535	1.63	0.104	-.0002183 .0023438
c.timew1w3#c.w1B12center522	.000015	.0001219	0.12	0.902	-.0002239 .0002538
c.w1HCYcenter2p15#c.w1B12center522	-.0027263	.0017499	-1.56	0.119	-.0061577 .000705
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	.0002625	.000325	0.81	0.419	-.0003745 .0008995
_cons	20.19615	.2659113	75.95	0.000	19.67497 20.71732

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0854795	.2574451	.0002335 31.29618
sd(_cons)	4.205902	.1024102	4.009896 4.411489
sd(Residual)	3.032662	.0983248	2.845944 3.23163

152 .

```
153 . mi estimate: mixed DigitSpanFwd c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4gobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations	=	5
Number of obs	=	2,717
Number of groups	=	1,443
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0057
Largest FMI	=	0.0914
DF: min	=	517.49
avg	=	9.63e+11
max	=	1.95e+13
F( 17, 1.3e+06)	=	7.11
Prob > F	=	0.0000

DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0247873	.0199756	1.24	0.215	-.0143641 .0639387
w1Agecent48	-.016821	.0063562	-2.65	0.008	-.0292789 -.004363
c.timew1w3##c.w1Agecent48	-.0032273	.0011398	-2.83	0.005	-.0054613 -.0009934
timew1w3	0 (omitted)				
Sex					
Men	.2454657	.1191551	2.06	0.039	.0119259 .4790054
Sex#c.timew1w3					
Men	-.0320941	.0213742	-1.50	0.133	-.0739868 .0097986
timew1w3	0 (omitted)				
Race					
AfrAm	-.7175232	.1161177	-6.18	0.000	-.9451101 -.4899362
Race#c.timew1w3					
AfrAm	-.0153125	.0209847	-0.73	0.466	-.0564418 .0258169
timew1w3	0 (omitted)				
PovStat					
Below	-.4697947	.1181224	-3.98	0.000	-.7013104 -.238279
PovStat#c.timew1w3					
Below	-.0247833	.0208121	-1.19	0.234	-.0655742 .0160076
timew1w3	0 (omitted)				
invmillsmms	.0060258	.0037589	1.60	0.109	-.0013415 .013393
c.timew1w3##c.invmillsmms	-.0005259	.0006154	-0.85	0.393	-.0017322 .0006803
timew1w3	0 (omitted)				
w1HCYcenter2p15	-.1686526	.1982502	-0.85	0.395	-.557229 .2199238
c.timew1w3##c.w1HCYcenter2p15	-.0313142	.0361908	-0.87	0.387	-.102247 .0396186

w1B12center522	.0004072	.0002771	1.47	0.142	-.0001373	.0009516
c.timew1w3#c.w1B12center522	-.0000239	.0000482	-0.50	0.621	-.0001184	.0000706
c.w1HCYcenter2p15#c.w1B12center522	.0006091	.000702	0.87	0.386	-.0007668	.001985
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-1.19e-06	.00013	-0.01	0.993	-.000256	.0002536
_cons	7.829846	.1088298	71.95	0.000	7.616543	8.04315

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0855793	.0406173	.0337578	.2169513
sd(_cons)	1.767256	.0418262	1.68715	1.851165
sd(Residual)	1.157682	.039349	1.083072	1.237431

154 .  
155 . mi estimate: mixed DigitSpanBck c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSta  
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates	Imputations = 5
Mixed-effects ML regression	Number of obs = 2,704
Group variable: HNDID	Number of groups = 1,444
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = 0.0058
	Largest FMI = 0.0542
	DF: min = 1,432.27
	avg = 6.51e+10
	max = 1.04e+12
Model F test: Equal FMI	F( 17, 1.2e+06) = 11.20
	Prob > F = 0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0002023	.0207881	0.01	0.992	-.0405416	.0409462
w1Agecent48	-.023765	.0061911	-3.84	0.000	-.0358994	-.0116306
c.timew1w3#c.w1Agecent48	-.0011203	.001182	-0.95	0.343	-.0034371	.0011964
timew1w3	0 (omitted)					
Sex						
Men	-.0439763	.1163764	-0.38	0.706	-.27207	.1841173
Sex#c.timew1w3						
Men	-.0145421	.0222192	-0.65	0.513	-.0580908	.0290067
timew1w3	0 (omitted)					
Race						
AfrAm	-1.070022	.1132456	-9.45	0.000	-1.291979	-.8480645

Race#c.timew1w3						
AfrAm	<b>-.0137054</b>	<b>.0217858</b>	<b>-0.63</b>	<b>0.529</b>	<b>-.0564047</b>	<b>.0289939</b>
timew1w3		<b>0</b> (omitted)				
PovStat						
Below	<b>-.5620535</b>	<b>.1153899</b>	<b>-4.87</b>	<b>0.000</b>	<b>-.7882136</b>	<b>-.3358934</b>
PovStat#c.timew1w3						
Below	<b>.0031022</b>	<b>.0215824</b>	<b>0.14</b>	<b>0.886</b>	<b>-.0391985</b>	<b>.0454029</b>
timew1w3		<b>0</b> (omitted)				
invmillsmms	<b>.0061839</b>	<b>.0036661</b>	<b>1.69</b>	<b>0.092</b>	<b>-.0010016</b>	<b>.0133694</b>
c.timew1w3#c.invmillsmms						
w1HCYcenter2p15	<b>-.0004818</b>	<b>.0006371</b>	<b>-0.76</b>	<b>0.450</b>	<b>-.0017305</b>	<b>.0007669</b>
timew1w3		<b>0</b> (omitted)				
w1HCYcenter2p15	<b>-.1121334</b>	<b>.1937182</b>	<b>-0.58</b>	<b>0.563</b>	<b>-.4918247</b>	<b>.2675579</b>
c.timew1w3#c.w1HCYcenter2p15						
w1B12center522	<b>-.0084164</b>	<b>.0378652</b>	<b>-0.22</b>	<b>0.824</b>	<b>-.0826367</b>	<b>.065804</b>
c.timew1w3#c.w1B12center522						
w1B12center522	<b>.0007092</b>	<b>.0002655</b>	<b>2.67</b>	<b>0.008</b>	<b>.0001887</b>	<b>.0012297</b>
c.w1HCYcenter2p15#c.w1B12center522						
c.w1HCYcenter2p15#c.w1B12center522	<b>.001224</b>	<b>.0007152</b>	<b>1.71</b>	<b>0.087</b>	<b>-.0001789</b>	<b>.0026268</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522						
_cons	<b>6.519543</b>	<b>.1061978</b>	<b>61.39</b>	<b>0.000</b>	<b>6.311398</b>	<b>6.727688</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	<b>8.66e-07</b>	<b>.0003426</b>	<b>0</b>
sd(_cons)	<b>1.641261</b>	<b>.0416033</b>	<b>1.561712</b>
			<b>1.724861</b>
sd(Residual)	<b>1.239816</b>	<b>.0247516</b>	<b>1.192241</b>
			<b>1.28929</b>

156 .  
157 . mi estimate: mixed clock\_command c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovSt  
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations	=	5
Number of obs	=	2,767
Number of groups	=	1,445
Obs per group:		
min =		1
avg =		1.9
max =		2
Average RVI	=	0.0026
Largest FMI	=	0.0166
DF:	min	= 14,820.57
	avg	= 9.45e+12
	max	= 1.92e+14
F( 17, 5.9e+06)	=	5.15
Prob > F	=	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0200296	.0159066	-1.26	0.208	-.0512059 .0111467
w1Agecent48	-.005161	.0035476	-1.45	0.146	-.0121141 .0017921
c.timew1w3#c.w1Agecent48	-.0014659	.00091	-1.61	0.107	-.0032495 .0003177
timew1w3	0 (omitted)				
Sex Men	.1110558	.0664834	1.67	0.095	-.0192492 .2413609
Sex#c.timew1w3 Men	.0113317	.0169636	0.67	0.504	-.0219165 .0445798
timew1w3	0 (omitted)				
Race AfrAm	-.3841278	.0648046	-5.93	0.000	-.5111425 -.2571132
Race#c.timew1w3 AfrAm	.0145406	.0167075	0.87	0.384	-.0182056 .0472868
timew1w3	0 (omitted)				
PovStat Below	-.0832076	.0663683	-1.25	0.210	-.213287 .0468718
PovStat#c.timew1w3 Below	-.0109905	.0166205	-0.66	0.508	-.0435661 .0215851
timew1w3 invmillsmms	0 (omitted)	.0002766	0.13	0.897	-.0038952 .0044484
c.timew1w3#c.invmillsmms	-.0001533	.000497	-0.31	0.758	-.0011273 .0008207
timew1w3 w1HCYcenter2p15	0 (omitted)	-.0963322	.1110454	-0.87	0.386 -.3139779 .1213134
c.timew1w3#c.w1HCYcenter2p15	-.0431825	.0285243	-1.51	0.130	-.0990892 .0127243
w1B12center522	.000052	.0001505	0.35	0.730	-.000243 .000347
c.timew1w3#c.w1B12center522	-6.63e-06	.0000387	-0.17	0.864	-.0000825 .0000693
c.w1HCYcenter2p15#c.w1B12center522	.0003665	.0004031	0.91	0.363	-.0004237 .0011567
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	.0000554	.0001035	0.54	0.592	-.0001474 .0002583
_cons	9.025338	.0605493	149.06	0.000	8.906663 9.144012

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0311077	.0474562	.0015643 .6186077
sd(_cons)	.6794867	.0300381	.6230916 .740986
sd(Residual)	.9716928	.0250819	.923756 1.022117

158 .  
 159 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Pc  
 > c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///  
 > if sample4jobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
 Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5  
 Number of obs = 2,701  
 Number of groups = 1,428  
 Obs per group:  
 min = 1  
 avg = 1.9  
 max = 2  
 Average RVI = 0.0103  
 Largest FMI = 0.0624  
 DF: min = 1,085.61  
 avg = 2.50e+12  
 max = 5.21e+13  
 F( 17, 381431.9) = 21.70  
 Prob > F = 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0022618	.0041881	0.54	0.589	-.0059468 .0104703
w1Agecent48	.0102914	.0010796	9.53	0.000	.0081753 .0124074
c.timew1w3#c.w1Agecent48	.0007065	.0002403	2.94	0.003	.0002355 .0011775
timew1w3	0 (omitted)				
Sex					
Men	.0856228	.0203044	4.22	0.000	.0458268 .1254187
Sex#c.timew1w3	.0015081	.0044967	0.34	0.737	-.0073052 .0103215
Men					
timew1w3	0 (omitted)				
Race					
AfrAm	.1806849	.0197131	9.17	0.000	.1420478 .2193219
Race#c.timew1w3	-.000125	.0044085	-0.03	0.977	-.0087655 .0085155
AfrAm					
timew1w3	0 (omitted)				
PovStat					
Below	.0930937	.0202121	4.61	0.000	.0534788 .1327087
PovStat#c.timew1w3	.0043867	.0043918	1.00	0.318	-.0042209 .0129944
Below					
timew1w3	0 (omitted)				
invmillsmms	.0003851	.000635	0.61	0.544	-.0008594 .0016297
c.timew1w3#c.invmillsmms	-.0001495	.0001285	-1.16	0.245	-.0004013 .0001023
timew1w3	0 (omitted)				
w1HCYcenter2p15	.0988573	.0340726	2.90	0.004	.0320756 .1656389
c.timew1w3#c.w1HCYcenter2p15	-.0032048	.0077035	-0.42	0.677	-.0183041 .0118945

w1B12center522	<b>4.71e-06</b>	<b>.0000466</b>	<b>0.10</b>	<b>0.920</b>	<b>-.0000867</b>	<b>.0000962</b>
c.timew1w3#c.w1B12center522	<b>.0000119</b>	<b>.0000106</b>	<b>1.13</b>	<b>0.259</b>	<b>-8.82e-06</b>	<b>.0000327</b>
c.w1HCYcenter2p15#c.w1B12center522	<b>-.0000437</b>	<b>.000123</b>	<b>-0.36</b>	<b>0.722</b>	<b>-.0002849</b>	<b>.0001974</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	<b>.0000375</b>	<b>.0000281</b>	<b>1.33</b>	<b>0.183</b>	<b>-.0000177</b>	<b>.0000927</b>
_cons	<b>3.279706</b>	<b>.0183972</b>	<b>178.27</b>	<b>0.000</b>	<b>3.243648</b>	<b>3.315764</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>.0254496</b>	<b>.0055077</b>	<b>.016652</b>	<b>.038895</b>
sd(_cons)	<b>.2659793</b>	<b>.0078489</b>	<b>.2510321</b>	<b>.2818164</b>
sd(Residual)	<b>.2352951</b>	<b>.0078276</b>	<b>.2204428</b>	<b>.251148</b>

160 .  
161 . mi estimate: mixed LnTrailsBtestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po  
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

	Imputations = 5
Number of obs	= 2,609
Number of groups	= 1,414
Obs per group:	
min	= 1
avg	= 1.8
max	= 2
Average RVI	= 0.0132
Largest FMI	= 0.0672
DF:	min = 940.01
	avg = 7.08e+12
	max = 1.49e+14
F( 17,287954.2)	= 24.73
Prob > F	= 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	<b>.0003368</b>	<b>.0061634</b>	<b>0.05</b>	<b>0.956</b>	<b>-.0117432</b>	<b>.0124168</b>
w1Agecent48	<b>.0169239</b>	<b>.0018346</b>	<b>9.22</b>	<b>0.000</b>	<b>.0133281</b>	<b>.0205198</b>
c.timew1w3#c.w1Agecent48	<b>.0005088</b>	<b>.0003554</b>	<b>1.43</b>	<b>0.152</b>	<b>-.0001878</b>	<b>.0012054</b>
timew1w3		0 (omitted)				
Sex						
Men	<b>.0489879</b>	<b>.0345099</b>	<b>1.42</b>	<b>0.156</b>	<b>-.0186503</b>	<b>.1166261</b>
Sex#c.timew1w3						
Men	<b>-.0026761</b>	<b>.0066809</b>	<b>-0.40</b>	<b>0.689</b>	<b>-.0157704</b>	<b>.0104182</b>
timew1w3		0 (omitted)				
Race						
AfrAm	<b>.4005708</b>	<b>.0335195</b>	<b>11.95</b>	<b>0.000</b>	<b>.3348737</b>	<b>.4662679</b>

Race#c.timew1w3							
AfrAm	.0028645	.006553	0.44	0.662	-.0099793	.0157082	
timew1w3	0	(omitted)					
PovStat							
Below	.2358132	.0343479	6.87	0.000	.1684925	.3031338	
PovStat#c.timew1w3							
Below	.006549	.0065481	1.00	0.317	-.0062851	.0193831	
timew1w3	0	(omitted)					
invmillsmms	-.0024326	.0010788	-2.25	0.024	-.0045469	-.0003183	
c.timew1w3#c.invmillsmms	-.0006066	.0004962	-1.22	0.222	-.0015792	.000366	
timew1w3	0	(omitted)					
w1HCYcenter2p15	.1231701	.0580016	2.12	0.034	.0094853	.2368549	
c.timew1w3#c.w1HCYcenter2p15	.004193	.0113154	0.37	0.711	-.017987	.0263729	
w1B12center522	.0000187	.0000799	0.23	0.815	-.0001382	.0001755	
c.timew1w3#c.w1B12center522	-6.76e-06	.0000158	-0.43	0.669	-.0000377	.0000242	
c.w1HCYcenter2p15#c.w1B12center522	.0000429	.0002083	0.21	0.837	-.0003655	.0004513	
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.0000852	.0000416	-2.05	0.041	-.000167	-3.54e-06	
_cons	4.238709	.0312798	135.51	0.000	4.177402	4.300017	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	8.04e-07	.0003734	0	.
sd(_cons)	.483602	.0130634	.4586642	.5098957
sd(Residual)	.3612757	.0077136	.3464692	.3767149

```

162 .
163 .
164 . save, replace
      file finaldata_imputed_FINAL.dta saved

165 .
166 .
167 . //MODEL 2: MODEL 1 + OTHER FACTORS + BODY MASS INDEX///
168 .

```

```
169 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,653
Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0377
Largest FMI = 0.2977
DF: min = 54.01
    avg = 1.51e+10
    max = 5.29e+11
F( 31, 72403.0) = 34.62
Prob > F = 0.0000
```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0860814	.0491441	1.75	0.080	-.0102633 .1824262
w1Agecent48	-.0173528	.0048981	-3.54	0.000	-.0269542 -.0077514
c.timew1w3##c.w1Agecent48	-.0030064	.0011988	-2.51	0.012	-.0053561 -.0006567
timew1w3	0 (omitted)				
Sex					
Men	-.3459379	.0908308	-3.81	0.000	-.523963 -.1679129
Sex#c.timew1w3	.0248952	.0224735	1.11	0.268	-.0191526 .0689431
Men					
timew1w3	0 (omitted)				
Race					
AfrAm	-.2309431	.0914168	-2.53	0.012	-.4101245 -.0517617
Race#c.timew1w3	-.0130297	.0229932	-0.57	0.571	-.0580978 .0320384
AfrAm					
timew1w3	0 (omitted)				
PovStat					
Below	-.055778	.0924303	-0.60	0.546	-.2369384 .1253823
PovStat#c.timew1w3	-.0324255	.0224828	-1.44	0.149	-.0764911 .0116401
Below					
timew1w3	0 (omitted)				
w1edubr					
2	.524113	.1852811	2.83	0.005	.160892 .887334
3	.7124591	.2025351	3.52	0.000	.3152973 1.109621
w1edubr#c.timew1w3					
2	-.0692541	.0466567	-1.48	0.138	-.1607181 .0222099
3	-.0677805	.0504577	-1.34	0.179	-.1667189 .0311579

timew1w3	0	(omitted)					
w1WRATtotalcent42	.1461042	.006289	23.23	0.000	.1337766	.1584318	
c.timew1w3#c.w1WRATtotalcent42	-.0069682	.0017186	-4.05	0.000	-.0103374	-.003599	
timew1w3	0	(omitted)					
1.w1smoke	.0367652	.0984003	0.37	0.709	-.1563939	.2299244	
w1smoke#c.timew1w3							
1	-.0554756	.0242931	-2.28	0.022	-.1030894	-.0078618	
timew1w3	0	(omitted)					
1.w1currdrugs	-.1014067	.1271123	-0.80	0.427	-.3533277	.1505143	
w1currdrugs#c.timew1w3							
1	.0201179	.029866	0.67	0.501	-.0385433	.078779	
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43	-.004364	.0045199	-0.97	0.339	-.0134259	.0046979	
c.timew1w3#c.w1hei2010_total_scorecent43	.0006041	.0011853	0.51	0.612	-.0017679	.002976	
timew1w3	0	(omitted)					
w1BMIcon30	-.0055342	.0059588	-0.93	0.353	-.0172134	.0061451	
c.timew1w3#c.w1BMIcon30							
timew1w3	0	(omitted)					
invmillsmms	.0077818	.0027717	2.81	0.005	.0023493	.0132143	
c.timew1w3#c.invmillsmms							
timew1w3	0	(omitted)					
w1HCYcenter2p15	.0087079	.1496069	0.06	0.954	-.2845242	.3019399	
c.timew1w3#c.w1HCYcenter2p15							
w1B12center522	.0001299	.0002055	0.63	0.527	-.0002728	.0005327	
c.timew1w3#c.w1B12center522							
c.w1HCYcenter2p15#c.w1B12center522							
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522							
_cons	27.45349	.1937165	141.72	0.000	27.07372	27.83327	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	5.67e-07	.0001054	3.2e-165	1.0e+152
sd(_cons)	1.002948	.0426165	.9227992	1.090058
sd(Residual)	1.212124	.0265104	1.161261	1.265214

```

170 .
171 .
172 . mi estimate: mixed MMStotnorm c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,653
Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0358
Largest FMI = 0.3331
DF: min = 43.52
      avg = 1.82e+09
      max = 6.37e+10
F( 31,78401.3) = 30.70
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.3756221	.3965516	0.95	0.344	.4016638	1.152908
w1Agecent48	-.152778	.0383499	-3.98	0.000	.2279483	.0776076
c.timew1w3#c.w1Agecent48	-.0236326	.0097523	-2.42	0.015	.0427481	.004517
timew1w3	0	(omitted)				
Sex						
Men	-1.968587	.713274	-2.76	0.006	.366579	.5705943
Sex#c.timew1w3						
Men	.1349691	.1830219	0.74	0.461	.2237568	.493695
timew1w3	0	(omitted)				
Race						
AfrAm	-3.353553	.7171643	-4.68	0.000	.759216	.94789
Race#c.timew1w3						
AfrAm	.0525112	.1867317	0.28	0.779	.313488	.4185104
timew1w3	0	(omitted)				
PovStat						
Below	-.6228103	.726296	-0.86	0.391	.046329	.8007082
PovStat#c.timew1w3						
Below	-.2815556	.1829987	-1.54	0.124	.6402272	.0771161
timew1w3	0	(omitted)				
w1edubr						
2	3.946211	1.445457	2.73	0.006	1.113024	6.779398
3	6.142586	1.57881	3.89	0.000	3.047559	9.237613
w1edubr#c.timew1w3						
2	-.5458795	.3769578	-1.45	0.148	.284758	.1929989

	3	-.4334258	.40785	-1.06	0.288	-1.232982	.3661307
timew1w3		0 (omitted)					
w1WRATtotalcent42		.9564743	.0492867	19.41	0.000	.8598678	1.053081
c.timew1w3#c.w1WRATtotalcent42		-.0319245	.0139465	-2.29	0.022	-.059266	-.0045829
timew1w3		0 (omitted)					
1.w1smoke		-.3779092	.7693469	-0.49	0.623	-1.887228	1.13141
w1smoke#c.timew1w3							
1		-.3079791	.1972076	-1.56	0.118	-.6944993	.0785412
timew1w3		0 (omitted)					
1.w1currdrugs		-.1639229	.976401	-0.17	0.867	-2.090476	1.76263
w1currdrugs#c.timew1w3							
1		.0875716	.2464549	0.36	0.723	-.397335	.5724781
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		-.0187921	.034627	-0.54	0.589	-.0877075	.0501232
c.timew1w3#c.w1hei2010_total_scorecent43		.0062408	.0099065	0.63	0.532	-.0137305	.0262121
timew1w3		0 (omitted)					
w1BMIcon30		-.0484114	.0466293	-1.04	0.299	-.1398031	.0429804
c.timew1w3#c.w1BMIcon30							
timew1w3		0 (omitted)					
invmillsmms		.0437924	.0217647	2.01	0.044	.0011343	.0864505
c.timew1w3#c.invmillsmms							
timew1w3		0 (omitted)					
w1HCYcenter2p15		.3651201	1.169745	0.31	0.755	-1.927539	2.65778
c.timew1w3#c.w1HCYcenter2p15							
w1B12center522		.0002229	.0016149	0.14	0.890	-.0029425	.0033883
c.timew1w3#c.w1B12center522							
c.w1HCYcenter2p15#c.w1B12center522							
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522							
_cons		75.13549	1.512451	49.68	0.000	72.17088	78.1001

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0002759	.0235085	8.04e-77	9.47e+68
sd(_cons)	7.409334	.3176549	6.812179	8.058837
sd(Residual)	9.887625	.2023569	9.49886	10.2923

```

173 .
174 .
175 .
176 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4bobs==1 || HNDID: timew1w3

```

Multiple-imputation estimates  
 Mixed-effects ML regression

Imputations = 5  
 Number of obs = 2,464

Group variable: HNDID

Number of groups = 1,420  
 Obs per group:

min =	1
avg =	1.7
max =	2

Average RVI = 0.0420  
 Largest FMI = 0.4057

DF adjustment: Large sample

DF: min = 29.70  
 avg = 290,696.34  
 max = 3556729.43

Model F test: Equal FMI

F( 31, 58121.4) = 50.31  
 Prob > F = 0.0000

cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-1.156643	.1548032	-7.47	0.000	-1.460059 -.8532275
w1Agecent48	-.1609315	.0190677	-8.44	0.000	-.1983051 -.123558
c.timew1w3##c.w1Agecent48	-.0052334	.0041092	-1.27	0.203	-.0132873 .0028206
timew1w3	0 (omitted)				
Sex					
Men	-2.260938	.356135	-6.35	0.000	-2.958951 -1.562925
Sex##c.timew1w3					
Men	-.1734931	.0771467	-2.25	0.025	-.3246984 -.0222879
timew1w3	0 (omitted)				
Race					
AfrAm	-1.98216	.3569021	-5.55	0.000	-2.68169 -1.282629
Race##c.timew1w3					
AfrAm	.092131	.077999	1.18	0.238	-.0607617 .2450238
timew1w3	0 (omitted)				
PovStat					
Below	-.3395102	.3601164	-0.94	0.346	-1.045336 .3663158
PovStat##c.timew1w3					
Below	-.0502395	.0760233	-0.66	0.509	-.1992449 .0987658
timew1w3	0 (omitted)				
w1edubr					
2	-.3084802	.706234	-0.44	0.662	-1.693481 1.07652
3	1.902973	.7681323	2.48	0.013	.396738 3.409208
w1edubr##c.timew1w3					

	2	.0864077	.1449129	0.60	0.551	-.1976355	.3704509
	3	-.0534316	.1591187	-0.34	0.737	-.365306	.2584428
timew1w3		0	(omitted)				
w1WRATtotalcent42		.2384489	.0241959	9.85	0.000	.1910241	.2858737
c.timew1w3#c.w1WRATtotalcent42		-.0047953	.0051523	-0.93	0.352	-.0148942	.0053036
timew1w3		0	(omitted)				
1.w1smoke		-.0676873	.3836863	-0.18	0.860	-.8231196	.687745
w1smoke#c.timew1w3							
1		-.033774	.0890353	-0.38	0.705	-.2095954	.1420474
timew1w3		0	(omitted)				
1.w1currdrugs		-.7014116	.4427078	-1.58	0.113	-1.569519	.1666955
w1currdrugs#c.timew1w3							
1		.1168285	.0988413	1.18	0.237	-.0770962	.3107533
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0248026	.0186721	1.33	0.194	-.0133471	.0629524
c.timew1w3#c.w1hei2010_total_scorecent43		-.0023756	.003955	-0.60	0.549	-.0102182	.0054669
timew1w3		0	(omitted)				
w1BMIcon30		.0059052	.0232	0.25	0.799	-.0395675	.0513779
c.timew1w3#c.w1BMIcon30		-.0038293	.0049192	-0.78	0.436	-.0134709	.0058124
timew1w3		0	(omitted)				
invmillsmms		.0161159	.0103813	1.55	0.121	-.004231	.0364628
c.timew1w3#c.invmillsmms		-.0003261	.0020005	-0.16	0.871	-.0042471	.0035948
timew1w3		0	(omitted)				
w1HCYcenter2p15		1.233022	.5765852	2.14	0.032	.1029009	2.363144
c.timew1w3#c.w1HCYcenter2p15		-.1359445	.1260491	-1.08	0.281	-.3830008	.1111118
w1B12center522		.0007781	.0008314	0.94	0.350	-.0008596	.0024157
c.timew1w3#c.w1B12center522		-.0001362	.0001717	-0.79	0.428	-.0004729	.0002004
c.w1HCYcenter2p15#c.w1B12center522		-.0015149	.0020704	-0.73	0.464	-.005574	.0025441
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522		-.0001759	.0004674	-0.38	0.707	-.001092	.0007402
_cons		26.47589	.737041	35.92	0.000	25.03104	27.92074

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.3495381	.1026044	.1966164	.6213971
sd(_cons)	4.412995	.1302238	4.165001	4.675754
sd(Residual)	3.680105	.1309944	3.43211	3.94602

```

177 .
178 .
179 .
180 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4cobs==1 || HNDID: timew1w3
convergence not achieved
model did not converge on m=3
r(498);

end of do-file

r(498);

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

182 .
183 .
184 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4cobs==1 || HNDID:

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,339
Number of groups = 1,391
Obs per group:
min = 1
avg = 1.7
max = 2
Average RVI = 0.0694
Largest FMI = 0.3186
DF: min = 47.41
avg = 407,676.43
max = 5806063.29
F( 31,23480.2) = 31.51
Prob > F = 0.0000

```

	CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3						
w1Agecent48		-.3312287	.0745624	-4.44	0.000	-.4773698
		-.083756	.009138	-9.17	0.000	-.1016663
c.timew1w3#c.w1Agecent48		-.0038034	.002032	-1.87	0.061	-.0077866
timew1w3		0	(omitted)			
Sex						
Men		-.9767325	.1714154	-5.70	0.000	-1.312702
Sex#c.timew1w3						
Men		-.0543387	.0374491	-1.45	0.147	-.1277379
timew1w3		0	(omitted)			
Race						
AfrAm		-1.196708	.1715311	-6.98	0.000	-1.532922
Race#c.timew1w3						
AfrAm		.0120981	.0377535	0.32	0.749	-.0618994
						.0860957

	timew1w3	0	(omitted)				
PovStat Below		-.0366033	.1739693	-0.21	0.833	-.377607	.3044005
PovStat#c.timew1w3 Below		-.0373116	.0369041	-1.01	0.312	-.109643	.0350199
timew1w3	0	(omitted)					
w1edubr 2		-.132086	.3383237	-0.39	0.696	-.7953391	.5311672
3		.6048736	.3674171	1.65	0.100	-.1153188	1.325066
w1edubr#c.timew1w3 2		-.0016827	.0698137	-0.02	0.981	-.1385226	.1351572
3		.0026586	.0769038	0.03	0.972	-.148073	.1533903
timew1w3	0	(omitted)					
w1WRATtotalcent42		.0999975	.0117447	8.51	0.000	.0769744	.1230207
c.timew1w3#c.w1WRATtotalcent42		-.0037482	.0024884	-1.51	0.132	-.0086255	.001129
timew1w3 1.w1smoke	0	(omitted)					
w1smoke#c.timew1w3 1		-.0163709	.1976956	-0.08	0.934	-.4097195	.3769778
timew1w3	0	(omitted)					
1.w1currdrugs		-.2828474	.229847	-1.23	0.220	-.7367362	.1710415
w1currdrugs#c.timew1w3 1		-.0221436	.0515071	-0.43	0.668	-.1241287	.0798415
timew1w3	0	(omitted)					
w1hei2010_total_scorecent43		.0076577	.0086289	0.89	0.379	-.0096974	.0250127
c.timew1w3#c.w1hei2010_total_scorecent43		-.0003927	.0019856	-0.20	0.844	-.0043457	.0035604
timew1w3	0	(omitted)					
w1BMIcontent30		.0234064	.0111895	2.09	0.036	.0014737	.0453391
c.timew1w3#c.w1BMIcontent30		-.0022717	.0024198	-0.94	0.348	-.0070148	.0024714
timew1w3	0	(omitted)					
invmillsmms		.0073305	.0049335	1.49	0.137	-.0023389	.017
c.timew1w3#c.invmillsmms		-.0004358	.0009427	-0.46	0.644	-.0022835	.0014119
timew1w3	0	(omitted)					
w1HCYcenter2p15		.4759581	.2773926	1.72	0.086	-.0677217	1.019638
c.timew1w3#c.w1HCYcenter2p15		.0103449	.0613276	0.17	0.866	-.109857	.1305469
w1B12center522		-.0000106	.0003861	-0.03	0.978	-.0007679	.0007467
c.timew1w3#c.w1B12center522		.0000866	.0000838	1.03	0.301	-.0000776	.0002509
c.w1HCYcenter2p15#c.w1B12center522		-.001075	.0009999	-1.08	0.282	-.0030352	.0008853
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	9.80e-06	.0002273	0.04	0.966	-.0004358	.0004554	

	<u>_cons</u>	8.320005	.3554395	23.41	0.000	7.62328	9.01673
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Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Identity				
sd(_cons)	2.011624	.0633524	1.891209	2.139705
sd(Residual)	1.824481	.0422449	1.743532	1.909188

185 .  
 186 .  
 187 .  
 188 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
 > if sample4dobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
 Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,751
Group variable: HNDID		
Number of groups	=	1,443
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0470
Largest FMI	=	0.3222
DF: min	=	46.39
avg	=	8.97e+07
max	=	3.12e+09
Model F test: Equal FMI	F( 31,46285.4)	= 28.17
	Prob > F	= 0.0000

DF adjustment: Large sample

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.4110376	.1090078	3.77	0.000	.1973828	.6246923
w1Agecent48	.1242953	.0132935	9.35	0.000	.0982401	.1503504
c.timew1w3##c.w1Agecent48	.007907	.0028411	2.78	0.005	.0023384	.0134756
timew1w3	0 (omitted)					
Sex						
Men	-1.109133	.2495348	-4.44	0.000	-1.598225	-.6200421
Sex#c.timew1w3						
Men	.0634974	.0527583	1.20	0.229	-.0399074	.1669022
timew1w3	0 (omitted)					
Race						
AfrAm	.5254855	.2484643	2.11	0.034	.0384984	1.012473
Race#c.timew1w3						
AfrAm	.1431137	.0534222	2.68	0.007	.0384059	.2478215
timew1w3	0 (omitted)					

PovStat Below	.3685361	.253446	1.45	0.146	-.128213	.8652852
PovStat#c.timew1w3 Below	.0330916	.0527734	0.63	0.531	-.0703425	.1365256
timew1w3	0 (omitted)					
w1edubr 2 3	-.7050422 -1.609883	.5022202 .5491198	-1.40 -2.93	0.160 0.003	-1.689515 -2.68648	.2794307 -.5332852
w1edubr#c.timew1w3 2 3	-.1460764 -.1209482	.103053 .1126793	-1.42 -1.07	0.156 0.283	-.3480617 -.3417987	.0559088 .0999023
timew1w3 w1WRATtotalcent42	0 (omitted)					
c.timew1w3#c.w1WRATtotalcent42	-.1575516	.0172835	-9.12	0.000	-.1914412	-.123662
timew1w3 1.w1smoke	0 (omitted)					
w1smoke#c.timew1w3 1	.3760743	.2701006	1.39	0.165	-.1551564	.9073051
timew1w3 1.w1currdrugs	0 (omitted)					
w1currdrugs#c.timew1w3 1	-.1609	.368719	-0.44	0.665	-.9029231	.5811231
timew1w3 w1hei2010_total_scorecent43	0 (omitted)					
c.timew1w3#c.w1hei2010_total_scorecent43	-.0065288	.0115486	-0.57	0.573	-.0294959	.0164383
timew1w3 w1BMIconcent30	0 (omitted)					
c.timew1w3#c.w1BMIconcent30	-.0034325	.0026677	-1.29	0.201	-.0087139	.0018489
timew1w3 invmillsmms	0 (omitted)					
c.timew1w3#c.invmillsmms	-.0076253	.016294	0.47	0.640	-.024312	.0395627
timew1w3 c.timew1w3#c.w1BMIconcent30	0 (omitted)					
c.timew1w3#c.invmillsmms	-.0157463	.0076335	-2.06	0.039	-.0307076	-.0007849
timew1w3 w1HCYcenter2p15	0 (omitted)					
c.timew1w3#c.w1HCYcenter2p15	-.0001042	.001477	0.07	0.944	-.0027907	.0029992
timew1w3 w1B12center522	0 (omitted)					
c.timew1w3#c.w1B12center522	-.0249019	.4091615	0.06	0.951	-.7771071	.8269109
c.timew1w3#c.w1B12center522	.100948	.0861498	1.17	0.241	-.0679025	.2697984
c.w1HCYcenter2p15#c.w1B12center522	-.0003045	.0005922	-0.51	0.608	-.0014709	.0008619
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	.0000348	.0001204	0.29	0.773	-.0002012	.0002708
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	.0012194	.0015845	0.77	0.443	-.0019072	.004346
_cons	7.438557	.5261066	14.14	0.000	6.407177	8.469936

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0000479	.00711	1.8e-131	1.3e+122
sd(_cons)	3.166689	.0916782	2.992005	3.351571
sd(Residual)	2.921719	.0578891	2.810432	3.037412

```

189 .
190 .
191 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,486
Number of groups = 1,418
Obs per group:
    min = 1
    avg = 1.8
    max = 2
Average RVI = 0.0222
Largest FMI = 0.1973
DF: min = 118.31
      avg = 3.66e+07
      max = 1.21e+09
F( 31, 196706.5) = 13.02
Prob > F = 0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0306822	.0575032	-0.53	0.594	-.1433935 .082029
	w1Agecent48	-.0159462	.0064154	-2.49	0.013	-.0285203 -.0033721
	c.timew1w3#c.w1Agecent48	-.0028534	.0014605	-1.95	0.051	-.0057158 9.09e-06
	timew1w3	0	(omitted)			
	Sex					
	Men	-.2690573	.1214884	-2.21	0.027	-.5071705 -.0309442
	Sex#c.timew1w3					
	Men	-.006528	.027454	-0.24	0.812	-.0603368 .0472809
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-.6926194	.1213263	-5.71	0.000	-.9304152 -.4548235
	Race#c.timew1w3					
	AfrAm	.034719	.0276999	1.25	0.210	-.0195718 .0890099
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.1584259	.1225643	-1.29	0.196	-.3986476 .0817958

PovStat#c.timew1w3 Below		<b>-.039709</b>	<b>.0273991</b>	<b>-1.45</b>	<b>0.147</b>	<b>-.0934107</b>	<b>.0139927</b>
	timew1w3		<b>0</b>	(omitted)			
w1edubr							
2		<b>.3947393</b>	<b>.2441768</b>	<b>1.62</b>	<b>0.106</b>	<b>-.0838474</b>	<b>.873326</b>
3		<b>.5624302</b>	<b>.2654363</b>	<b>2.12</b>	<b>0.034</b>	<b>.0421489</b>	<b>1.082711</b>
w1edubr#c.timew1w3							
2		<b>-.0123029</b>	<b>.0545457</b>	<b>-0.23</b>	<b>0.822</b>	<b>-.1192169</b>	<b>.0946112</b>
3		<b>-.0352927</b>	<b>.0590824</b>	<b>-0.60</b>	<b>0.550</b>	<b>-.1510944</b>	<b>.0805091</b>
timew1w3			<b>0</b>	(omitted)			
w1WRATtotalcent42		<b>.0734082</b>	<b>.0083145</b>	<b>8.83</b>	<b>0.000</b>	<b>.0571118</b>	<b>.0897046</b>
c.timew1w3#c.w1WRATtotalcent42		<b>.0036792</b>	<b>.0019001</b>	<b>1.94</b>	<b>0.053</b>	<b>-.000045</b>	<b>.0074033</b>
timew1w3			<b>0</b>	(omitted)			
1.w1smoke		<b>-.1563119</b>	<b>.1362902</b>	<b>-1.15</b>	<b>0.253</b>	<b>-.4254379</b>	<b>.1128141</b>
w1smoke#c.timew1w3							
1		<b>-.022185</b>	<b>.0299556</b>	<b>-0.74</b>	<b>0.459</b>	<b>-.0809126</b>	<b>.0365426</b>
timew1w3			<b>0</b>	(omitted)			
1.w1currdrugs		<b>.2862131</b>	<b>.1523867</b>	<b>1.88</b>	<b>0.060</b>	<b>-.0125504</b>	<b>.5849766</b>
w1currdrugs#c.timew1w3							
1		<b>-.0271756</b>	<b>.0350575</b>	<b>-0.78</b>	<b>0.438</b>	<b>-.0958901</b>	<b>.0415389</b>
timew1w3			<b>0</b>	(omitted)			
w1hei2010_total_scorecent43		<b>-.0047918</b>	<b>.0056169</b>	<b>-0.85</b>	<b>0.395</b>	<b>-.0159146</b>	<b>.0063309</b>
c.timew1w3#c.w1hei2010_total_scorecent43		<b>-.0000529</b>	<b>.0012415</b>	<b>-0.04</b>	<b>0.966</b>	<b>-.0024862</b>	<b>.0023805</b>
timew1w3			<b>0</b>	(omitted)			
w1BMICent30		<b>-.0211079</b>	<b>.0080009</b>	<b>-2.64</b>	<b>0.008</b>	<b>-.0367907</b>	<b>-.0054252</b>
c.timew1w3#c.w1BMICent30		<b>-.0001321</b>	<b>.0017854</b>	<b>-0.07</b>	<b>0.941</b>	<b>-.0036315</b>	<b>.0033673</b>
timew1w3			<b>0</b>	(omitted)			
invmillsmms		<b>.0019721</b>	<b>.0035365</b>	<b>0.56</b>	<b>0.577</b>	<b>-.0049592</b>	<b>.0089034</b>
c.timew1w3#c.invmillsmms		<b>-.0006564</b>	<b>.0007293</b>	<b>-0.90</b>	<b>0.368</b>	<b>-.0020858</b>	<b>.0007731</b>
timew1w3			<b>0</b>	(omitted)			
w1HCYcenter2p15		<b>-.0070555</b>	<b>.2025491</b>	<b>-0.03</b>	<b>0.972</b>	<b>-.4040453</b>	<b>.3899342</b>
c.timew1w3#c.w1HCYcenter2p15		<b>-.0029046</b>	<b>.0465203</b>	<b>-0.06</b>	<b>0.950</b>	<b>-.0940832</b>	<b>.0882739</b>
w1B12center522		<b>.0003202</b>	<b>.0002757</b>	<b>1.16</b>	<b>0.246</b>	<b>-.0002206</b>	<b>.0008609</b>
c.timew1w3#c.w1B12center522		<b>.0000445</b>	<b>.0000616</b>	<b>0.72</b>	<b>0.471</b>	<b>-.0000763</b>	<b>.0001652</b>
c.w1HCYcenter2p15#c.w1B12center522		<b>.0005016</b>	<b>.0007289</b>	<b>0.69</b>	<b>0.491</b>	<b>-.000927</b>	<b>.0019302</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522		<b>-.0001317</b>	<b>.000174</b>	<b>-0.76</b>	<b>0.449</b>	<b>-.0004729</b>	<b>.0002095</b>
_cons		<b>6.864692</b>	<b>.2545934</b>	<b>26.96</b>	<b>0.000</b>	<b>6.365691</b>	<b>7.363693</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.097597	.0413184	.0425671	.2237685
sd(_cons)	1.398055	.0462066	1.310363	1.491616
sd(Residual)	1.377829	.0443251	1.293636	1.467502

192 .  
193 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4fobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5  
Number of obs = 2,773

Number of groups = 1,446  
Obs per group:

min = 1  
avg = 1.9  
max = 2

Average RVI = 0.0495  
Largest FMI = 0.2629  
DF: min = 68.49  
avg = 4705586.63  
max = 1.46e+08

F( 31, 41872.6) = 12.26  
Prob > F = 0.0000

FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.0064129	.1149078	-0.06	0.955	-.2316837	.2188578
w1Agecent48	-.0826008	.0151685	-5.45	0.000	-.1123315	-.0528701
c.timew1w3#c.w1Agecent48	-.002295	.0029548	-0.78	0.437	-.0080863	.0034963
timew1w3	0 (omitted)					
Sex						
Men	1.289661	.2828275	4.56	0.000	.7353283	1.843994
Sex#c.timew1w3						
Men	-.0162899	.0550874	-0.30	0.767	-.1242597	.0916799
timew1w3	0 (omitted)					
Race						
AfrAm	-1.356835	.2833154	-4.79	0.000	-1.912124	-.801546
Race#c.timew1w3						
AfrAm	-.0370214	.0559324	-0.66	0.508	-.1466512	.0726084
timew1w3	0 (omitted)					
PovStat						
Below	-.4681468	.289559	-1.62	0.106	-1.035692	.0993989
PovStat#c.timew1w3						
Below	.0096785	.0552626	0.18	0.861	-.0986355	.1179926

	timew1w3	0 (omitted)					
w1edubr							
2		-.365243	.5696002	-0.64	0.521	-1.481675	.7511893
3		.9029703	.6191314	1.46	0.145	-.3105731	2.116514
w1edubr#c.timew1w3							
2		.0936497	.1092108	0.86	0.391	-.1204958	.3077953
3		.0540045	.1200044	0.45	0.653	-.1813302	.2893393
timew1w3		0	(omitted)				
w1WRATtotalcent42		.1613946	.0192236	8.40	0.000	.1237166	.1990725
c.timew1w3#c.w1WRATtotalcent42		.0025487	.0037442	0.68	0.496	-.0047901	.0098876
timew1w3		0	(omitted)				
1.w1smoke		-.4882777	.3262914	-1.50	0.139	-1.139055	.1624999
w1smoke#c.timew1w3							
1		.0300661	.0622946	0.48	0.630	-.0923254	.1524576
timew1w3		0	(omitted)				
1.w1currdrugs		.3004935	.3754967	0.80	0.425	-.4411279	1.042115
w1currdrugs#c.timew1w3							
1		-.020025	.0712867	-0.28	0.779	-.1597951	.1197452
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0264244	.0128929	2.05	0.044	.0007004	.0521484
c.timew1w3#c.w1hei2010_total_scorecent43		-.0033448	.0025563	-1.31	0.191	-.0083571	.0016676
timew1w3		0	(omitted)				
w1BMIconcent30		.0227134	.018752	1.21	0.226	-.0140525	.0594794
c.timew1w3#c.w1BMIconcent30		.0024013	.0035821	0.67	0.503	-.0046197	.0094224
timew1w3		0	(omitted)				
invmillsmms		.0087243	.0088255	0.99	0.323	-.0085735	.026022
c.timew1w3#c.invmillsmms		-.0013914	.0015759	-0.88	0.377	-.0044801	.0016972
timew1w3		0	(omitted)				
w1HCYcenter2p15		-.0441076	.4599251	-0.10	0.924	-.9455461	.8573309
c.timew1w3#c.w1HCYcenter2p15		-.0174842	.0901675	-0.19	0.846	-.1942187	.1592503
w1B12center522		.0005895	.0006272	0.94	0.347	-.0006399	.001819
c.timew1w3#c.w1B12center522		.0000522	.0001245	0.42	0.675	-.0001919	.0002962
c.w1HCYcenter2p15#c.w1B12center522		-.0027771	.0016433	-1.69	0.091	-.005998	.0004438
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522		.0002191	.0003266	0.67	0.502	-.0004209	.0008592
_cons	19.27934	.6009539	32.08	0.000	18.10113	20.45755	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
<b>HNDID: Independent</b>				
sd(timew1w3)	.1036932	.2015903	.0022958	4.68355
sd(_cons)	3.86162	.0987073	3.672923	4.06001
sd(Residual)	3.025892	.0947534	2.845762	3.217424

194 .  
195 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4gobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: **HNDID**

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5  
Number of obs = 2,717

Number of groups = 1,443  
Obs per group:

min = 1  
avg = 1.9  
max = 2

Average RVI = 0.0710  
Largest FMI = 0.4655  
DF: min = 22.64  
avg = 358,422.28  
max = 8460206.77

F( 31, 21476.7) = 15.94  
Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0410716	.045433	0.90	0.366	.0479773	.1301206
w1Agecent48	-.0092785	.0058784	-1.58	0.114	-.0208001	.0022432
c.timew1w3#c.w1Agecent48	-.0031605	.0011734	-2.69	0.007	-.0054603	-.0008607
timew1w3	0 (omitted)					
Sex						
Men	.1974878	.110256	1.79	0.073	-.0186114	.4135871
Sex#c.timew1w3						
Men	-.0363069	.0219075	-1.66	0.097	-.079245	.0066312
timew1w3	0 (omitted)					
Race						
AfrAm	-.292762	.1110147	-2.64	0.008	-.5103821	-.0751419
Race#c.timew1w3						
AfrAm	-.0114467	.0220881	-0.52	0.604	-.0547388	.0318455
timew1w3	0 (omitted)					
PovStat						
Below	-.1112653	.1123969	-0.99	0.322	-.3315785	.1090479
PovStat#c.timew1w3						
Below	-.0235993	.0219402	-1.08	0.282	-.066602	.0194034

	timew1w3	0 (omitted)					
w1edubr							
2		-.0905566	.2222478	-0.41	0.684	-.5261642	.345051
3		.1974706	.2412798	0.82	0.413	-.2754591	.6704002
w1edubr#c.timew1w3							
2		-.003245	.0427237	-0.08	0.939	-.086982	.080492
3		-.022266	.0468156	-0.48	0.634	-.1140245	.0694926
timew1w3		0	(omitted)				
w1WRATtotalcent42		.1132946	.0075237	15.06	0.000	.0985472	.128042
c.timew1w3#c.w1WRATtotalcent42		.0001761	.0014931	0.12	0.906	-.0027505	.0031026
timew1w3		0	(omitted)				
1.w1smoke		.1706883	.1225892	1.39	0.166	-.072062	.4134386
w1smoke#c.timew1w3							
1		-.0147224	.0244953	-0.60	0.548	-.0628027	.033358
timew1w3		0	(omitted)				
1.w1currdrugs		.3958473	.1759732	2.25	0.035	.031499	.7601957
w1currdrugs#c.timew1w3							
1		-.0086841	.0297908	-0.29	0.771	-.0672846	.0499164
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0016713	.0047672	0.35	0.726	-.0077356	.0110783
c.timew1w3#c.w1hei2010_total_scorecent43		.0000841	.0011065	0.08	0.940	-.0021079	.0022762
timew1w3		0	(omitted)				
w1BMIconcent30		-.0109708	.0073752	-1.49	0.137	-.0254396	.0034981
c.timew1w3#c.w1BMIconcent30		-.0013889	.0014314	-0.97	0.332	-.0041948	.0014171
timew1w3		0	(omitted)				
invmillsmms		.0058064	.0034114	1.70	0.089	-.0008798	.0124926
c.timew1w3#c.invmillsmms		-.0005555	.0006182	-0.90	0.369	-.0017672	.0006562
timew1w3		0	(omitted)				
w1HCYcenter2p15		.0162553	.1817425	0.09	0.929	-.3400314	.3725419
c.timew1w3#c.w1HCYcenter2p15		-.028577	.0363985	-0.79	0.432	-.0999177	.0427638
w1B12center522		.0002467	.0002563	0.96	0.336	-.0002571	.0007504
c.timew1w3#c.w1B12center522		-.0000245	.0000496	-0.49	0.622	-.0001217	.0000728
c.w1HCYcenter2p15#c.w1B12center522		.0003408	.0006548	0.52	0.603	-.0009438	.0016255
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522		-6.96e-06	.000131	-0.05	0.958	-.0002638	.0002499
_cons		7.208962	.2332258	30.91	0.000	6.751811	7.666113

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0900324	.0357756	.0413198	.1961731
sd(_cons)	1.514217	.0391865	1.439327	1.593004
sd(Residual)	1.156497	.0374505	1.085376	1.232278

196 .  
197 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

	Imputations =	5
	Number of obs =	2,704
	Number of groups =	1,444
	Obs per group:	
	min =	1
	avg =	1.9
	max =	2
	Average RVI =	0.0498
	Largest FMI =	0.3013
	DF: min =	52.78
	avg =	5.21e+08
	max =	1.82e+10
	F( 31, 43761.2) =	22.83
	Prob > F =	0.0000

DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.0354983	.0471789	-0.75	0.452	-.1279813 .0569848
w1Agecent48	-.0189358	.0056862	-3.33	0.001	-.0300819 -.0077897
c.timew1w3#c.w1Agecent48	-.000677	.0012099	-0.56	0.576	-.0030483 .0016944
timew1w3	0 (omitted)				
Sex					
Men	-.038094	.1060395	-0.36	0.719	-.2459287 .1697407
Sex#c.timew1w3					
Men	-.0250669	.022625	-1.11	0.268	-.0694113 .0192775
timew1w3	0 (omitted)				
Race					
AfrAm	-.5800717	.1055604	-5.50	0.000	-.7869668 -.3731767
Race#c.timew1w3					
AfrAm	-.0211041	.0227757	-0.93	0.354	-.065744 .0235357
timew1w3	0 (omitted)				
PovStat					
Below	-.1277171	.107721	-1.19	0.236	-.3388529 .0834187
PovStat#c.timew1w3					
Below	.0002651	.0225753	0.01	0.991	-.0439818 .0445121

	timew1w3	0 (omitted)					
w1edubr							
2		-.2029636	.2142393	-0.95	0.343	-.6228874	.2169603
3		.1470215	.2325605	0.63	0.527	-.3088181	.602861
w1edubr#c.timew1w3							
2		.0532914	.0441088	1.21	0.227	-.0331615	.1397443
3		.0244652	.0482289	0.51	0.612	-.0700626	.118993
timew1w3		0	(omitted)				
w1WRATtotalcent42		.1235227	.0072237	17.10	0.000	.1093643	.137681
c.timew1w3#c.w1WRATtotalcent42		-.001687	.00155	-1.09	0.276	-.0047252	.0013511
timew1w3		0	(omitted)				
1.w1smoke		-.0335092	.121844	-0.28	0.784	-.2754834	.2084649
w1smoke#c.timew1w3							
1		.0022852	.0276207	0.08	0.934	-.0526621	.0572326
timew1w3		0	(omitted)				
1.w1currdrugs		.0772265	.1417865	0.54	0.587	-.2024143	.3568672
w1currdrugs#c.timew1w3							
1		.0262842	.0301371	0.87	0.383	-.0328902	.0854585
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		-.0016664	.0050938	-0.33	0.745	-.0118843	.0085514
c.timew1w3#c.w1hei2010_total_scorecent43		.001197	.0011718	1.02	0.310	-.0011386	.0035326
timew1w3		0	(omitted)				
w1BMIcontent30		-.0054152	.0070044	-0.77	0.439	-.0191475	.0083171
c.timew1w3#c.w1BMIcontent30		-.0025276	.0014774	-1.71	0.087	-.0054237	.0003685
timew1w3		0	(omitted)				
invmillsmms		.0051073	.0032749	1.56	0.119	-.0013114	.0115259
c.timew1w3#c.invmillsmms		-.0003957	.0006365	-0.62	0.534	-.0016433	.0008518
timew1w3		0	(omitted)				
w1HCYcenter2p15		.1097799	.1739133	0.63	0.528	-.2311052	.450665
c.timew1w3#c.w1HCYcenter2p15		-.0067406	.0375858	-0.18	0.858	-.0804094	.0669281
w1B12center522		.0005814	.0002395	2.43	0.015	.000112	.0010508
c.timew1w3#c.w1B12center522		-.0000565	.0000512	-1.10	0.270	-.0001568	.0000438
c.w1HCYcenter2p15#c.w1B12center522		.0009443	.0006372	1.48	0.138	-.0003049	.0021934
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522		-.0001615	.0001391	-1.16	0.245	-.0004341	.000111
_cons		6.031635	.2267084	26.61	0.000	5.587134	6.476136

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	1.30e-06	.0005813	0	.
sd(_cons)	1.343986	.0388674	1.269926	1.422365
sd(Residual)	1.236934	.0247423	1.189378	1.286392

198 .  
199 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5  
Number of obs = 2,767

Number of groups = 1,445  
Obs per group:

min = 1  
avg = 1.9  
max = 2

Average RVI = 0.0351  
Largest FMI = 0.1849  
DF: min = 133.87  
avg = 7.14e+07  
max = 2.46e+09

F( 31, 81210.6) = 7.04  
Prob > F = 0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.0626873	.0363749	-1.72	0.085	-.1339907	.0086161
w1Agecent48	-.0023836	.003527	-0.68	0.499	-.0092964	.0045292
c.timew1w3#c.w1Agecent48	-.0017944	.0009292	-1.93	0.053	-.0036157	.0000268
timew1w3	0 (omitted)					
Sex						
Men	.0921028	.0659728	1.40	0.163	-.0372016	.2214071
Sex#c.timew1w3						
Men	.015452	.0173536	0.89	0.373	-.0185605	.0494646
timew1w3	0 (omitted)					
Race						
AfrAm	-.2824657	.0659722	-4.28	0.000	-.411769	-.1531624
Race#c.timew1w3						
AfrAm	.0134389	.0175105	0.77	0.443	-.0208812	.047759
timew1w3	0 (omitted)					
PovStat						
Below	.0400895	.067546	0.59	0.553	-.0922994	.1724783
PovStat#c.timew1w3						
Below	-.0047953	.0173987	-0.28	0.783	-.0388962	.0293055

	timew1w3	0 (omitted)					
w1edubr							
2	-.0374259	.1364479	-0.27	0.784	-.3049402	.2300884	
3	.1499032	.1475723	1.02	0.310	-.1393861	.4391925	
w1edubr#c.timew1w3							
2	.0433708	.0344526	1.26	0.208	-.0241627	.1109044	
3	.0586805	.0377075	1.56	0.120	-.0152343	.1325954	
timew1w3		0 (omitted)					
w1WRATtotalcent42	.0289041	.0045509	6.35	0.000	.019984	.0378243	
c.timew1w3#c.w1WRATtotalcent42	-.0012335	.0011952	-1.03	0.302	-.0035767	.0011098	
timew1w3		0 (omitted)					
1.w1smoke	-.0445768	.0756336	-0.59	0.556	-.1937853	.1046317	
w1smoke#c.timew1w3							
1	.0102517	.0198886	0.52	0.607	-.0289008	.0494042	
timew1w3		0 (omitted)					
1.w1currdrugs	.3055035	.092597	3.30	0.001	.1223611	.488646	
w1currdrugs#c.timew1w3							
1	-.0585946	.0227398	-2.58	0.010	-.1032064	-.0139828	
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43	.0025772	.0029988	0.86	0.391	-.0033163	.0084707	
c.timew1w3#c.w1hei2010_total_scorecent43	.0004541	.0008462	0.54	0.592	-.0012152	.0021233	
timew1w3		0 (omitted)					
w1BMIconcent30	-.0037302	.0043466	-0.86	0.391	-.0122495	.0047892	
c.timew1w3#c.w1BMIconcent30	.0000745	.0011304	0.07	0.947	-.002141	.0022901	
timew1w3		0 (omitted)					
invmillsmms	.0004158	.002073	0.20	0.841	-.0036473	.0044788	
c.timew1w3#c.invmillsmms	-.0002343	.000497	-0.47	0.637	-.0012085	.0007399	
timew1w3		0 (omitted)					
w1HCYcenter2p15	-.0522444	.1082667	-0.48	0.629	-.2644439	.159955	
c.timew1w3#c.w1HCYcenter2p15	-.0425646	.0285445	-1.49	0.136	-.0985112	.013382	
w1B12center522	-.0000475	.0001488	-0.32	0.749	-.0003392	.0002441	
c.timew1w3#c.w1B12center522	-5.65e-06	.0000397	-0.14	0.887	-.0000835	.0000722	
c.w1HCYcenter2p15#c.w1B12center522	.0003005	.0003917	0.77	0.443	-.0004672	.0010683	
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	.0000583	.0001035	0.56	0.573	-.0001445	.0002612	
_cons	8.831789	.1422142	62.10	0.000	8.55297	9.110609	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0329926	.0431681	.0025391	.4286941
sd(_cons)	.6219862	.0307821	.564488	.6853411
sd(Residual)	.9684167	.0245984	.921385	1.017849

200 .

201 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4jobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,701
Group variable: HNDID	Number of groups	= 1,428
	Obs per group:	
	min	= 1
	avg	= 1.9
	max	= 2
DF adjustment: Large sample	Average RVI	= 0.0375
	Largest FMI	= 0.3518
	DF:	min = 39.17
		avg = 2.12e+07
		max = 6.66e+08
Model F test: Equal FMI	F( 31, 70808.8)	= 14.95
	Prob > F	= 0.0000

LnTrailsAtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0133904	.0096511	1.39	0.165	-.0055288	.0323095
w1Agecent48	.0101198	.0010875	9.31	0.000	.0079883	.0122512
c.timew1w3#c.w1Agecent48	.000637	.0002454	2.60	0.009	.000156	.001118
timew1w3	0 (omitted)					
Sex						
Men	.08713	.0204005	4.27	0.000	.0471457	.1271143
Sex#c.timew1w3						
Men	.0013139	.0045834	0.29	0.774	-.0076694	.0102972
timew1w3	0 (omitted)					
Race						
AfrAm	.1505296	.0203223	7.41	0.000	.1106986	.1903605
Race#c.timew1w3						
AfrAm	-.0022783	.0045999	-0.50	0.620	-.0112939	.0067373
timew1w3	0 (omitted)					
PovStat						
Below	.0649024	.020773	3.12	0.002	.0241881	.1056167
PovStat#c.timew1w3						
Below	.0010013	.004574	0.22	0.827	-.0079637	.0099662

	timew1w3	0 (omitted)					
w1edubr							
2		-.0611636	.0423817	-1.44	0.149	-.1442689	.0219416
3		-.0556517	.0459706	-1.21	0.226	-.1458078	.0345044
w1edubr#c.timew1w3							
2		-.0074745	.0091417	-0.82	0.414	-.0253958	.0104467
3		-.0115485	.0100069	-1.15	0.249	-.0311679	.008071
timew1w3		0	(omitted)				
w1WRATtotalcent42		-.0076929	.0014179	-5.43	0.000	-.0104721	-.0049138
c.timew1w3#c.w1WRATtotalcent42		-.0005524	.0003159	-1.75	0.080	-.0011715	.0000667
timew1w3		0	(omitted)				
1.w1smoke		.0029145	.0229917	0.13	0.899	-.0424951	.0483241
w1smoke#c.timew1w3							
1		.0029317	.0050575	0.58	0.562	-.0069858	.0128491
timew1w3		0	(omitted)				
1.w1currdrugs		.0512199	.0270848	1.89	0.060	-.002099	.1045388
w1currdrugs#c.timew1w3							
1		-.0046904	.0060273	-0.78	0.437	-.0165152	.0071344
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0000293	.0010244	0.03	0.977	-.0020424	.0021011
c.timew1w3#c.w1hei2010_total_scorecent43		.0000797	.0002325	0.34	0.733	-.0003814	.0005408
timew1w3		0	(omitted)				
w1BMIcontent30		.0022043	.0013339	1.65	0.098	-.0004101	.0048187
c.timew1w3#c.w1BMIcontent30		-.0002282	.0002949	-0.77	0.439	-.0008061	.0003498
timew1w3		0	(omitted)				
invmillsmms		.0004771	.0006262	0.76	0.446	-.0007502	.0017045
c.timew1w3#c.invmillsmms		-.0001452	.0001281	-1.13	0.257	-.0003962	.0001059
timew1w3		0	(omitted)				
w1HCYcenter2p15		.0828136	.0337124	2.46	0.014	.0167372	.14889
c.timew1w3#c.w1HCYcenter2p15		-.0039508	.0076725	-0.51	0.607	-.0189891	.0110876
w1B12center522		.0000144	.0000468	0.31	0.759	-.0000775	.0001062
c.timew1w3#c.w1B12center522		.0000127	.0000106	1.20	0.231	-8.09e-06	.0000336
c.w1HCYcenter2p15#c.w1B12center522		-.0000367	.0001228	-0.30	0.765	-.0002775	.0002041
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522		.0000398	.0000277	1.43	0.151	-.0000146	.0000942
_cons		3.358883	.0440511	76.25	0.000	3.272518	3.445248

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.0224889	.0059594	.0133785	.0378033
sd(_cons)	.2559471	.0077671	.2411677	.2716323
sd(Residual)	.2373228	.0076268	.2228355	.2527519

202 .  
203 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4kobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI

Imputations = 5  
Number of obs = 2,609

Number of groups = 1,414  
Obs per group:

min = 1  
avg = 1.8  
max = 2

Average RVI = 0.0535  
Largest FMI = 0.2893  
DF: min = 57.04  
avg = 2.25e+12  
max = 7.87e+13

F( 31, 40253.3) = 24.10  
Prob > F = 0.0000

LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0084334	.0145971	0.58	0.563	-.0201869	.0370537
w1Agecent48	.0155264	.0017476	8.88	0.000	.0121011	.0189517
c.timew1w3#c.w1Agecent48	.000514	.0003653	1.41	0.159	-.000202	.00123
timew1w3	0 (omitted)					
Sex						
Men	.0528064	.0327064	1.61	0.106	-.011297	.1169097
Sex#c.timew1w3						
Men	-.0041646	.0068115	-0.61	0.541	-.0175149	.0091858
timew1w3	0 (omitted)					
Race						
AfrAm	.3014618	.0326297	9.24	0.000	.2375083	.3654153
Race#c.timew1w3						
AfrAm	.0005038	.0069065	0.07	0.942	-.0130328	.0140404
timew1w3	0 (omitted)					
PovStat						
Below	.1301742	.0334306	3.89	0.000	.06465	.1956985
PovStat#c.timew1w3						
Below	.0018525	.0068711	0.27	0.787	-.0116148	.0153199

	timew1w3	0 (omitted)					
w1edubr							
2		-.1079926	.0671531	-1.61	0.108	-.2396194	.0236342
3		-.2072652	.0722649	-2.87	0.004	-.3489043	-.065626
w1edubr#c.timew1w3							
2		-.0076358	.0138142	-0.55	0.580	-.034714	.0194423
3		-.0085934	.0149846	-0.57	0.566	-.0379666	.0207797
timew1w3		0	(omitted)				
w1WRATtotalcent42		-.0266219	.0022931	-11.61	0.000	-.0311165	-.0221273
c.timew1w3#c.w1WRATtotalcent42		-.0002342	.000494	-0.47	0.635	-.0012024	.000734
timew1w3		0	(omitted)				
1.w1smoke		.0018269	.0376356	0.05	0.961	-.0729499	.0766037
w1smoke#c.timew1w3							
1		.0095658	.0079487	1.20	0.230	-.0060917	.0252232
timew1w3		0	(omitted)				
1.w1currdrugs		-.0056573	.0442104	-0.13	0.898	-.0930859	.0817714
w1currdrugs#c.timew1w3							
1		-.0029249	.0093052	-0.31	0.754	-.0212431	.0153932
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0004944	.001425	0.35	0.729	-.0023127	.0033014
c.timew1w3#c.w1hei2010_total_scorecent43		-.0000998	.000367	-0.27	0.787	-.0008347	.0006352
timew1w3		0	(omitted)				
w1BMIconcent30		.0016992	.0021531	0.79	0.430	-.0025216	.00592
c.timew1w3#c.w1BMIconcent30		-.0005853	.0004423	-1.32	0.186	-.0014522	.0002815
timew1w3		0	(omitted)				
invmillsmms		-.0022139	.0010046	-2.20	0.028	-.0041829	-.0002448
c.timew1w3#c.invmillsmms		-.0003748	.0004814	-0.78	0.436	-.0013184	.0005688
timew1w3		0	(omitted)				
w1HCYcenter2p15		.0786024	.0540316	1.45	0.146	-.0272992	.184504
c.timew1w3#c.w1HCYcenter2p15		.0046476	.0112792	0.41	0.680	-.0174606	.0267559
w1B12center522		.0000615	.0000746	0.82	0.410	-.0000848	.0002078
c.timew1w3#c.w1B12center522		-6.81e-06	.0000158	-0.43	0.665	-.0000377	.0000241
c.w1HCYcenter2p15#c.w1B12center522		.0001116	.0001943	0.57	0.566	-.0002693	.0004925
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522		-.0000864	.0000413	-2.09	0.036	-.0001674	-5.48e-06
_cons		4.498739	.0700015	64.27	0.000	4.361529	4.635948

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.259e-07	.0001285	0	.
sd(_cons)	.428022	.0125148	.404183	.4532671
sd(Residual)	.3604679	.0077033	.3456815	.3758868

```

204 .
205 .
206 . save, replace
      file finaldata_imputed_FINAL.dta saved

207 .
208 .
209 . //MODEL 3: FULLY ADJUSTED MODEL: MODEL 2 + HEALTH-RELATED FACTORS///
210 .
211 . mi estimate: mixed MMStot c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.ti
> > c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIconcen
> > imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> > c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,653
Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0396
Largest FMI = 0.3072
DF: min = 50.84
        avg = 4.98e+12
        max = 2.54e+14
F( 47,114255.1) = 23.42
Prob > F = 0.0000

```

MMStot	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	.0918492	.0568553	1.62	0.106	-.0196045	.2033029
w1Agecent48	-.0195326	.0052884	-3.69	0.000	-.0299003	-.009165
c.timew1w3#c.w1Agecent48	-.0030123	.0013009	-2.32	0.021	-.0055623	-.0004622
timew1w3	0 (omitted)					
Sex						
Men	-.3666437	.0926518	-3.96	0.000	-.5482404	-.185047
Sex#c.timew1w3						
Men	.0257252	.0229927	1.12	0.263	-.0193447	.070795
timew1w3	0 (omitted)					
Race						
AfrAm	-.2528229	.0934383	-2.71	0.007	-.4359931	-.0696527
Race#c.timew1w3						

AfrAm		<b>-.0115186</b>	<b>.0235457</b>	<b>-0.49</b>	<b>0.625</b>	<b>-.0576738</b>	<b>.0346367</b>
timew1w3		<b>0</b>	<b>(omitted)</b>				
PovStat Below		<b>-.015462</b>	<b>.093615</b>	<b>-0.17</b>	<b>0.869</b>	<b>-.1989453</b>	<b>.1680212</b>
PovStat#c.timew1w3 Below		<b>-.0331186</b>	<b>.0228067</b>	<b>-1.45</b>	<b>0.146</b>	<b>-.0778189</b>	<b>.0115817</b>
timew1w3		<b>0</b>	<b>(omitted)</b>				
w1edubr 2 3		<b>.5243851</b>	<b>.1843538</b>	<b>2.84</b>	<b>0.004</b>	<b>.1630122</b>	<b>.885758</b>
w1edubr#c.timew1w3 2 3		<b>-.0656034</b>	<b>.0467154</b>	<b>-1.40</b>	<b>0.160</b>	<b>-.1571828</b>	<b>.025976</b>
		<b>-.0640766</b>	<b>.0504602</b>	<b>-1.27</b>	<b>0.204</b>	<b>-.1630091</b>	<b>.034856</b>
timew1w3 w1WRATtotalcent42		<b>0</b>	<b>(omitted)</b>				
c.timew1w3#c.w1WRATtotalcent42		<b>.1441002</b>	<b>.0063288</b>	<b>22.77</b>	<b>0.000</b>	<b>.1316942</b>	<b>.1565062</b>
timew1w3 1.w1smoke		<b>0</b>	<b>(omitted)</b>				
w1smoke#c.timew1w3 1		<b>.0555686</b>	<b>.0989157</b>	<b>0.56</b>	<b>0.574</b>	<b>-.1385831</b>	<b>.2497202</b>
timew1w3 1.w1currdrugs		<b>0</b>	<b>(omitted)</b>				
w1currdrugs#c.timew1w3 1		<b>-.0631127</b>	<b>.1266716</b>	<b>-0.50</b>	<b>0.619</b>	<b>-.3137748</b>	<b>.1875494</b>
timew1w3 w1hei2010_total_scorecent43		<b>0</b>	<b>(omitted)</b>				
c.timew1w3#c.w1hei2010_total_scorecent43		<b>-.0050494</b>	<b>.004521</b>	<b>-1.12</b>	<b>0.269</b>	<b>-.0141076</b>	<b>.0040087</b>
timew1w3 w1BMIcon30		<b>0</b>	<b>(omitted)</b>				
c.timew1w3#c.w1BMIcon30		<b>-.0007418</b>	<b>.0012077</b>	<b>0.61</b>	<b>0.542</b>	<b>-.0016829</b>	<b>.0031665</b>
timew1w3		<b>0</b>	<b>(omitted)</b>				
w1SRH 2 3		<b>.1693884</b>	<b>.119373</b>	<b>1.42</b>	<b>0.156</b>	<b>-.0645786</b>	<b>.4033554</b>
w1SRH#c.timew1w3 2 3		<b>.0955798</b>	<b>.1284836</b>	<b>0.74</b>	<b>0.457</b>	<b>-.1562461</b>	<b>.3474057</b>
timew1w3 w1CEScent15		<b>0</b>	<b>(omitted)</b>				
c.timew1w3#c.w1CEScent15		<b>-.0064163</b>	<b>.0300736</b>	<b>-0.21</b>	<b>0.831</b>	<b>-.0653596</b>	<b>.0525269</b>
		<b>-.0116913</b>	<b>.0323233</b>	<b>-0.36</b>	<b>0.718</b>	<b>-.0750453</b>	<b>.0516628</b>
timew1w3		<b>0</b>	<b>(omitted)</b>				
c.timew1w3#c.w1CEScent15		<b>.0004686</b>	<b>.0010576</b>	<b>0.44</b>	<b>0.658</b>	<b>-.0016044</b>	<b>.0025417</b>
timew1w3		<b>0</b>	<b>(omitted)</b>				

w1dxHTN Yes	.0425589	.0998923	0.43	0.670	-.1532388	.2383566
w1dxHTN#c.timew1w3 Yes	-.0064466	.0253561	-0.25	0.799	-.0561586	.0432654
timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes	-.0129345 .0920682	.116648 .1460211	-0.11 -0.63	0.912 0.529	-.2416252 -.3804291	.2157561 .1962928
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	.0291041 -.0463617	.0289523 .0357816	1.01 -1.30	0.315 0.195	-.027643 -.1165811	.0858512 .0238578
timew1w3	0	(omitted)				
w1CVhighChol Yes	.171863	.1095553	1.57	0.117	-.0432325	.3869586
w1CVhighChol#c.timew1w3 Yes	.0093348	.0279458	0.33	0.738	-.0454754	.0641451
timew1w3 1.w1cvdbr	0 -.0281821	(omitted) .1286911	-0.22	0.827	-.2816791	.2253149
w1cvdbr#c.timew1w3 1	-.0029463	.0320354	-0.09	0.927	-.0659011	.0600085
timew1w3 invmillsmms	0 .008053	(omitted) .0027664	2.91	0.004	.002631	.0134751
c.timew1w3#c.invmillsmms	-.0018914	.0006107	-3.10	0.002	-.0030883	-.0006946
timew1w3 w1HCYcenter2p15	0 .0103448	(omitted) .1502228	0.07	0.945	-.2840961	.3047857
c.timew1w3#c.w1HCYcenter2p15	-.0189604	.0371622	-0.51	0.610	-.0917977	.0538769
w1B12center522	.0001149	.0002059	0.56	0.577	-.0002887	.0005186
c.timew1w3#c.w1B12center522	-.0000778	.0000511	-1.52	0.128	-.0001781	.0000224
c.w1HCYcenter2p15#c.w1B12center522	-.0001094	.0005389	-0.20	0.839	-.0011657	.0009468
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.0000489	.0001388	-0.35	0.725	-.0003209	.0002231
_cons	27.29892	.2221428	122.89	0.000	26.86348	27.73437

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	5.19e-07	.0001381	2.2e-233	1.2e+220
sd(_cons)	.9944806	.0427484	.9141137	1.081913
sd(Residual)	1.210529	.0265294	1.159631	1.263661

```

212 .
213 .
214 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4aobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,653
Number of groups = 1,430
Obs per group:
    min = 1
    avg = 1.9
    max = 2
Average RVI = 0.0396
Largest FMI = 0.3488
DF: min = 39.84
      avg = 1.13e+09
      max = 5.78e+10
F( 47, 108137.3) = 20.82
Prob > F = 0.0000

```

	MMStotnorm	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.4836115	.4601165	1.05	0.293	.4182795	1.385502
w1Agecent48	-.1721551	.0411231	-4.19	0.000	-.2527574	-.0915528
c.timew1w3##c.w1Agecent48	-.0239183	.0105293	-2.27	0.023	-.0445564	-.0032801
timew1w3	0	(omitted)				
Sex						
Men	-2.275684	.7270976	-3.13	0.002	-3.700788	-.85058
Sex##c.timew1w3						
Men	.1501757	.1872352	0.80	0.423	-.2168505	.5172019
timew1w3	0	(omitted)				
Race						
AfrAm	-3.54819	.730833	-4.85	0.000	-4.98074	-2.11564
Race##c.timew1w3						
AfrAm	.0731282	.1909892	0.38	0.702	-.3012367	.4474931
timew1w3	0	(omitted)				
PovStat						
Below	-.2526686	.7350891	-0.34	0.731	-1.69343	1.188093
PovStat##c.timew1w3						
Below	-.2961581	.1854965	-1.60	0.110	-.6597249	.0674086
timew1w3	0	(omitted)				
w1edubr						
2	3.856949	1.442252	2.67	0.007	1.030038	6.68386
3	5.945413	1.573571	3.78	0.000	2.860941	9.029886
w1edubr##c.timew1w3						

		2	-.5110131	.3776377	-1.35	0.176	-1.251237	.2292105
		3	-.3879078	.407791	-0.95	0.342	-1.187286	.4114707
	timew1w3		0	(omitted)				
	w1WRATtotalcent42		.9391015	.0495792	18.94	0.000	.8419187	1.036284
c.timew1w3#c.w1WRATtotalcent42			-.0316805	.0140662	-2.25	0.024	-.0592558	-.0041052
	timew1w3		0	(omitted)				
	1.w1smoke		-.1154396	.7751423	-0.15	0.882	-1.63627	1.405391
	w1smoke#c.timew1w3							
	1		-.3268369	.1994901	-1.64	0.101	-.7178316	.0641578
	timew1w3		0	(omitted)				
	1.w1currdrugs		.1871341	.9828649	0.19	0.849	-1.752799	2.127067
	w1currdrugs#c.timew1w3							
	1		.0692419	.2514856	0.28	0.783	-.4261265	.5646103
	timew1w3		0	(omitted)				
	w1hei2010_total_scorecent43		-.0264537	.0346682	-0.76	0.448	-.0954311	.0425236
c.timew1w3#c.w1hei2010_total_scorecent43			.0075991	.0100565	0.76	0.454	-.0127283	.0279266
	timew1w3		0	(omitted)				
	w1BMIcon30		-.0513165	.0504676	-1.02	0.309	-.1502365	.0476034
c.timew1w3#c.w1BMIcon30			-.0015027	.0126863	-0.12	0.906	-.0263674	.023362
	timew1w3		0	(omitted)				
	w1SRH							
	2		1.329819	.9373615	1.42	0.156	-.5073792	3.167017
	3		1.624886	1.012988	1.60	0.109	-.3606619	3.610434
	w1SRH#c.timew1w3							
	2		-.1075536	.2443093	-0.44	0.660	-.586391	.3712838
	3		-.2023914	.2627799	-0.77	0.441	-.7174432	.3126605
	timew1w3		0	(omitted)				
	w1CEScent15		-.0606214	.0327488	-1.85	0.064	-.1248092	.0035663
c.timew1w3#c.w1CEScent15			.0047815	.0085776	0.56	0.577	-.0120312	.0215942
	timew1w3		0	(omitted)				
	w1dxHTN							
	Yes		.5835184	.7869469	0.74	0.458	-.9590345	2.126071
	w1dxHTN#c.timew1w3							
	Yes		-.0794336	.2050226	-0.39	0.698	-.4813234	.3224562
	timew1w3		0	(omitted)				
	w1dxDiabetes							
	preDiabetes		.5229665	.9211168	0.57	0.570	-1.283279	2.329212
	Diabetes		-.1799475	1.125107	-0.16	0.873	-2.395223	2.035328
	w1dxDiabetes#c.timew1w3							
	preDiabetes		.228082	.2349627	0.97	0.332	-.2324419	.6886059
	Diabetes		-.3715046	.2895077	-1.28	0.200	-.9394654	.1964563

	timew1w3	0 (omitted)				
w1CVhighChol						
Yes	1.098026	.8663486	1.27	0.206	-.6034405	2.799493
w1CVhighChol#c.timew1w3						
Yes	.1228768	.2331549	0.53	0.598	-.3354283	.5811819
timew1w3		0 (omitted)				
1.w1cvdbr	-.4777699	1.036206	-0.46	0.645	-2.525613	1.570073
w1cvdbr#c.timew1w3						
1	-.0347077	.2631655	-0.13	0.895	-.5525322	.4831168
timew1w3		0 (omitted)				
invmillsmms	.045765	.0217129	2.11	0.035	.0032085	.0883215
c.timew1w3#c.invmillsmms						
timew1w3		0 (omitted)				
w1HCYcenter2p15	.3734661	1.174543	0.32	0.751	-1.9286	2.675533
c.timew1w3#c.w1HCYcenter2p15						
w1B12center522	-.1056157	.3020634	-0.35	0.727	-.6976526	.4864212
c.timew1w3#c.w1B12center522						
c.w1HCYcenter2p15#c.w1B12center522						
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522						
_cons	73.47654	1.755999	41.84	0.000	70.03374	76.91934

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
<b>HNDID: Independent</b>				
sd(timew1w3)	.000241	.0272653	1.2e-100	4.81e+92
sd(_cons)	7.334659	.3184987	6.736222	7.98626
sd(Residual)	9.873257	.2024653	9.484294	10.27817

215 .  
 216 .  
 217 .  
 218 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
 > if sample4bobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
 Mixed-effects ML regression

Imputations = 5  
 Number of obs = 2,464

Group variable: HNDID

	Number of groups =	1,420
	Obs per group:	
	min =	1
	avg =	1.7
	max =	2
	Average RVI =	0.0393
	Largest FMI =	0.3698
DF adjustment:	Large sample	DF: min = 35.56
		avg = 87,223.60
		max = 715,847.14
Model F test:	Equal FMI	F( 47, 109771.7) = 35.43
		Prob > F = 0.0000

	cvltca	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-1.053137	.1792477	-5.88	0.000	-1.40446 -.7018145
	w1Agecent48	-.1655443	.0203391	-8.14	0.000	-.2054101 -.1256785
	c.timew1w3#c.w1Agecent48	-.0071425	.00444407	-1.61	0.108	-.0158463 .0015613
	timew1w3	0	(omitted)			
	Sex					
	Men	-2.43415	.3593104	-6.77	0.000	-3.138387 -1.729913
	Sex#c.timew1w3					
	Men	-.2227968	.0785485	-2.84	0.005	-.3767509 -.0688428
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-2.254321	.361308	-6.24	0.000	-2.962517 -1.546126
	Race#c.timew1w3					
	AfrAm	.1022377	.0794901	1.29	0.198	-.053595 .2580703
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.1033248	.3620181	-0.29	0.775	-.8128833 .6062337
	PovStat#c.timew1w3					
	Below	-.0329773	.0767739	-0.43	0.668	-.1834577 .117503
	timew1w3	0	(omitted)			
	w1edubr					
	2	-.4301834	.6997391	-0.61	0.539	-1.80256 .9421929
	3	1.700525	.7601913	2.24	0.025	.2099788 3.191071
	w1edubr#c.timew1w3					
	2	.0944519	.145371	0.65	0.516	-.1905471 .3794509
	3	-.0593235	.1596263	-0.37	0.710	-.3722276 .2535805
	timew1w3	0	(omitted)			
	w1WRATtotalcent42	.2236451	.0241541	9.26	0.000	.1763017 .2709886
	c.timew1w3#c.w1WRATtotalcent42	-.0062445	.0051639	-1.21	0.227	-.0163661 .003877
	timew1w3	0	(omitted)			
	1.w1smoke	.117805	.3867276	0.30	0.761	-.6446439 .8802538

w1smoke#c.timew1w3						
1	-.0208835	.0895087	-0.23	0.816	-.1976656	.1558985
timew1w3	0	(omitted)				
1.w1currdrugs	-.4575651	.441442	-1.04	0.300	-1.323188	.4080577
w1currdrugs#c.timew1w3						
1	.1377583	.0991641	1.39	0.165	-.0567844	.3323011
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	.0213858	.0181448	1.18	0.246	-.0154293	.0582009
c.timew1w3#c.w1hei2010_total_scorecent43						
timew1w3	0	(omitted)				
w1BMICent30	.0104595	.0248023	0.42	0.673	-.0381553	.0590743
c.timew1w3#c.w1BMICent30						
timew1w3	0	(omitted)				
w1SRH						
2	.8623474	.4595916	1.88	0.061	-.038503	1.763198
3	.7989094	.4974177	1.61	0.108	-.1762071	1.774026
w1SRH#c.timew1w3						
2	-.1413902	.0996415	-1.42	0.156	-.3366859	.0539054
3	-.1343075	.1070365	-1.25	0.210	-.3440981	.075483
timew1w3	0	(omitted)				
w1CEScent15						
c.timew1w3#c.w1CEScent15						
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.0353779	.3843215	0.09	0.927	-.7180873	.7888431
w1dxHTN#c.timew1w3						
Yes	-.0199472	.0847781	-0.24	0.814	-.1861257	.1462313
timew1w3	0	(omitted)				
w1dxDiabetes						
preDiabetes	-.3201533	.4458708	-0.72	0.473	-1.194208	.5539015
Diabetes	.6683198	.5315381	1.26	0.209	-.3745525	1.711192
w1dxDiabetes#c.timew1w3						
preDiabetes	.1437553	.0993717	1.45	0.148	-.0510898	.3386003
Diabetes	-.2916646	.1203081	-2.42	0.016	-.527849	-.0554802
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.2784024	.4125842	-0.67	0.500	-1.087677	.5308722
w1CVhighChol#c.timew1w3						
Yes	.1740222	.0957336	1.82	0.069	-.0137788	.3618233
timew1w3	0	(omitted)				
1.w1cvnbr	.6085362	.4607041	1.32	0.187	-.2946737	1.511746

w1cvdbr#c.timew1w3							
1	-.1712297	.1059609	-1.62	0.106	-.3792069	.0367476	
timew1w3	0	(omitted)					
invmillsmms	.0177943	.0102756	1.73	0.083	-.0023456	.0379342	
c.timew1w3#c.invmillsmms	-.0002669	.001995	-0.13	0.894	-.0041771	.0036433	
timew1w3	0	(omitted)					
w1HCYcenter2p15	1.288346	.5748457	2.24	0.025	.1616247	2.415068	
c.timew1w3#c.w1HCYcenter2p15	-.1148513	.1264336	-0.91	0.364	-.3626633	.1329607	
w1B12center522	.0006948	.0008247	0.84	0.400	-.0009296	.0023192	
c.timew1w3#c.w1B12center522	-.0001382	.0001725	-0.80	0.423	-.0004766	.0002002	
c.w1HCYcenter2p15#c.w1B12center522	-.0015566	.002056	-0.76	0.449	-.0055878	.0024747	
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.0001493	.0004647	-0.32	0.748	-.0010602	.0007616	
_cons	25.85615	.8395868	30.80	0.000	24.21049	27.50182	

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.3240107	.1091657	.167402 .6271305
sd(_cons)	4.307852	.1291544	4.062007 4.568576
sd(Residual)	3.678394	.1303034	3.431663 3.942865

```

219 .
220 .
221 .
222 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4cobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,339
Number of groups = 1,391
Obs per group:
    min = 1
    avg = 1.7
    max = 2
Average RVI = 0.0565
Largest FMI = 0.3173
DF: min = 47.80
        avg = 147,818.11
        max = 1670560.47
F( 47,54394.7) = 22.15
Prob > F = 0.0000

```

CVLfrl	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	-.3842883	.0872777	-4.40	0.000	-.5553499 -.2132267
w1Agecent48	-.0861637	.0097882	-8.80	0.000	-.1053487 -.0669787
c.timew1w3#c.w1Agecent48	-.0045563	.0021915	-2.08	0.038	-.0088517 -.000261
timew1w3	0 (omitted)				
Sex Men	-1.039164	.1732503	-6.00	0.000	-1.378731 -.6995967
Sex#c.timew1w3 Men	-.0668033	.0381964	-1.75	0.080	-.1416674 .0080608
timew1w3	0 (omitted)				
Race AfrAm	-1.306161	.1737124	-7.52	0.000	-1.646661 -.9656608
Race#c.timew1w3 AfrAm	.0144455	.0385463	0.37	0.708	-.0611077 .0899987
timew1w3	0 (omitted)				
PovStat Below	.0427707	.1746671	0.24	0.807	-.2995861 .3851274
PovStat#c.timew1w3 Below	-.0295875	.037527	-0.79	0.430	-.1031428 .0439677
timew1w3	0 (omitted)				
w1edubr					
2	-.140619	.3374651	-0.42	0.677	-.8023361 .5210981
3	.5559163	.367022	1.51	0.130	-.163609 1.275442
w1edubr#c.timew1w3					
2	-.0073738	.0700288	-0.11	0.916	-.1446413 .1298936
3	-.0054586	.0771551	-0.07	0.944	-.1566871 .1457698
timew1w3	0 (omitted)				
w1WRATtotalcent42	.0940797	.0117401	8.01	0.000	.0710651 .1170943
c.timew1w3#c.w1WRATtotalcent42	-.0041531	.0025124	-1.65	0.098	-.0090774 .0007711
timew1w3	0 (omitted)				
1.w1smoke	.0311192	.1981038	0.16	0.876	-.3631788 .4254171
w1smoke#c.timew1w3					
1	-.010622	.0460713	-0.23	0.818	-.1025058 .0812617
timew1w3	0 (omitted)				
1.w1currdrugs	-.1941863	.2277306	-0.85	0.395	-.6433113 .2549387
w1currdrugs#c.timew1w3					
1	-.0137357	.0518142	-0.27	0.791	-.1162837 .0888123
timew1w3	0 (omitted)				
w1hei2010_total_scorecent43	.0063911	.0085946	0.74	0.461	-.0108914 .0236735
c.timew1w3#c.w1hei2010_total_scorecent43	-.0005536	.0019733	-0.28	0.780	-.0044746 .0033675

	timew1w3	<b>0</b>	(omitted)				
w1BMIcon30		.0282977	.0119516	2.37	0.018	.004872	.0517235
c.timew1w3#c.w1BMIcon30		-.0025981	.0025751	-1.01	0.313	-.0076453	.0024491
	timew1w3	<b>0</b>	(omitted)				
w1SRH							
2		.206452	.2214508	0.93	0.351	-.2275969	.6405009
3		.0198121	.2398792	0.08	0.934	-.4504043	.4900286
w1SRH#c.timew1w3							
2		.0174803	.0489593	0.36	0.721	-.0784786	.1134393
3		.0586202	.0525617	1.12	0.265	-.0443991	.1616396
	timew1w3	<b>0</b>	(omitted)				
w1CEScent15		-.0325642	.007697	-4.23	0.000	-.0476501	-.0174784
c.timew1w3#c.w1CEScent15		.000103	.001725	0.06	0.952	-.0032788	.0034847
	timew1w3	<b>0</b>	(omitted)				
w1dxHTN							
Yes		.0125441	.1844967	0.07	0.946	-.3491216	.3742098
w1dxHTN#c.timew1w3							
Yes		.0155833	.0412477	0.38	0.706	-.0652628	.0964294
	timew1w3	<b>0</b>	(omitted)				
w1dxDiabetes							
preDiabetes		-.2047925	.2144405	-0.96	0.340	-.6252276	.2156426
Diabetes		-.1971897	.2658154	-0.74	0.459	-.7203682	.3259888
w1dxDiabetes#c.timew1w3							
preDiabetes		.0662215	.0478098	1.39	0.166	-.0274986	.1599416
Diabetes		-.0175128	.0582571	-0.30	0.764	-.1318278	.0968023
	timew1w3	<b>0</b>	(omitted)				
w1CVhighChol							
Yes		-.0416153	.2045293	-0.20	0.839	-.4434676	.3602371
w1CVhighChol#c.timew1w3							
Yes		.0600961	.0478683	1.26	0.210	-.0339976	.1541897
	timew1w3	<b>0</b>	(omitted)				
1.w1cvdbr		.3093429	.2306599	1.34	0.180	-.1436403	.7623261
w1cvdbr#c.timew1w3							
1		-.0515654	.0515328	-1.00	0.317	-.1526283	.0494975
	timew1w3	<b>0</b>	(omitted)				
invmillsmms		.0081951	.0048922	1.68	0.094	-.0013934	.0177836
c.timew1w3#c.invmillsmms		-.0004495	.0009445	-0.48	0.634	-.0023007	.0014016
	timew1w3	<b>0</b>	(omitted)				
w1HCYcenter2p15		.5334555	.2771584	1.92	0.054	-.0097656	1.076677
c.timew1w3#c.w1HCYcenter2p15		.004749	.0618002	0.08	0.939	-.1163801	.125878

w1B12center522	<b>-.0000537</b>	<b>.0003822</b>	<b>-0.14</b>	<b>0.888</b>	<b>-.0008034</b>	<b>.0006959</b>
c.timew1w3#c.w1B12center522	<b>.0000874</b>	<b>.0000841</b>	<b>1.04</b>	<b>0.299</b>	<b>-.0000775</b>	<b>.0002523</b>
c.w1HCYcenter2p15#c.w1B12center522	<b>-.0010669</b>	<b>.0009948</b>	<b>-1.07</b>	<b>0.284</b>	<b>-.0030173</b>	<b>.0008836</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	<b>.000024</b>	<b>.0002271</b>	<b>0.11</b>	<b>0.916</b>	<b>-.0004212</b>	<b>.0004691</b>
_cons	<b>8.276638</b>	<b>.4074765</b>	<b>20.31</b>	<b>0.000</b>	<b>7.477903</b>	<b>9.075372</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	<b>.0451582</b>	<b>.1963542</b>	<b>8.99e-06</b>	<b>226.9329</b>
sd(_cons)	<b>1.97938</b>	<b>.0632528</b>	<b>1.859209</b>	<b>2.107319</b>
sd(Residual)	<b>1.811846</b>	<b>.0606853</b>	<b>1.696724</b>	<b>1.934778</b>

```

223 .
224 .
225 .
226 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4dobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

Group variable: HNDID

DF adjustment: Large sample

Model F test: Equal FMI
```

	Imputations = 5
Number of obs	= 2,751
Number of groups	= 1,443
Obs per group:	
min	= 1
avg	= 1.9
max	= 2
Average RVI	= 0.0420
Largest FMI	= 0.3188
DF:	min = 47.36
	avg = 2260110.43
	max = 9.07e+07
F( 47,95684.3)	= 20.32
Prob > F	= 0.0000

BVRtot	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	<b>.4928756</b>	<b>.1277979</b>	<b>3.86</b>	<b>0.000</b>	<b>.2423655</b>
w1Agecent48	<b>.1140812</b>	<b>.0141391</b>	<b>8.07</b>	<b>0.000</b>	<b>.0863687</b>
c.timew1w3#c.w1Agecent48	<b>.0092046</b>	<b>.0030481</b>	<b>3.02</b>	<b>0.003</b>	<b>.0032305</b>
timew1w3		<b>0</b> (omitted)			
Sex					
Men	<b>-.9810196</b>	<b>.2517747</b>	<b>-3.90</b>	<b>0.000</b>	<b>-1.474519</b>
Sex#c.timew1w3					
Men	<b>.060491</b>	<b>.053703</b>	<b>1.13</b>	<b>0.260</b>	<b>-.0447683</b>
timew1w3		<b>0</b> (omitted)			

Race	AfrAm	.6436871	.2501965	2.57	0.010	.1533002	1.134074
Race#c.timew1w3	AfrAm	.1530116	.0541667	2.82	0.005	.0468452	.2591781
timew1w3		0 (omitted)					
PovStat							
Below		.1094572	.2536036	0.43	0.666	-.3875969	.6065113
PovStat#c.timew1w3	Below	.0377183	.0533531	0.71	0.480	-.066852	.1422887
timew1w3		0 (omitted)					
w1edubr							
2		-.6439713	.4961726	-1.30	0.194	-1.616563	.3286199
3		-1.410113	.5452215	-2.59	0.010	-2.479113	-.3411124
w1edubr#c.timew1w3							
2		-.154473	.102885	-1.50	0.133	-.3561284	.0471825
3		-.1346912	.1128699	-1.19	0.233	-.355916	.0865336
timew1w3		0 (omitted)					
w1WRATtotalcent42		-.1468759	.0172357	-8.52	0.000	-.1806746	-.1130772
c.timew1w3#c.w1WRATtotalcent42		-.00434	.0036093	-1.20	0.229	-.0114142	.0027342
timew1w3		0 (omitted)					
1.w1smoke		.2621717	.2714552	0.97	0.335	-.2721345	.796478
w1smoke#c.timew1w3							
1		-.0440635	.0581865	-0.76	0.449	-.1581217	.0699946
timew1w3		0 (omitted)					
1.w1currdrugs		-.2875678	.3665016	-0.78	0.437	-1.024724	.4495884
w1currdrugs#c.timew1w3							
1		.1007755	.0717755	1.40	0.161	-.0403213	.2418723
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		-.0033325	.0115568	-0.29	0.774	-.026342	.0196769
c.timew1w3#c.w1hei2010_total_scorecent43		-.0036213	.0027266	-1.33	0.188	-.0090406	.0017979
timew1w3		0 (omitted)					
w1BMICent30							
-.0121087	.0173338	-0.70	0.485	-.0460829	.0218654		
c.timew1w3#c.w1BMICent30							
-.004146	.0036899	-1.12	0.261	-.011378	.0030861		
timew1w3		0 (omitted)					
w1SRH							
2		-.8500789	.3249838	-2.62	0.009	-1.487037	-.2131209
3		-.811969	.3503183	-2.32	0.020	-1.498582	-.125356
w1SRH#c.timew1w3							
2		-.0640132	.0701518	-0.91	0.362	-.2015085	.0734821
3		-.0249665	.0758426	-0.33	0.742	-.1736283	.1236952
timew1w3		0 (omitted)					

w1CEScent15	.0443608	.0114617	3.87	0.000	.0218918	.0668299
c.timew1w3#c.w1CEScent15	-.0003232	.0024896	-0.13	0.897	-.005204	.0045576
timew1w3	0	(omitted)				
w1dxHTN Yes	.3466593	.2693602	1.29	0.198	-.1813201	.8746388
w1dxHTN#c.timew1w3 Yes	-.027212	.0587721	-0.46	0.643	-.142404	.08798
timew1w3	0	(omitted)				
w1dxDiabetes preDiabetes Diabetes	.2624956 .249859	.3159764 .3775863	0.83 0.66	0.406 0.508	-.3570029 -.4917603	.8819941 .9914784
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	-.0304426 .0376642	.0678376 .0807293	-0.45 0.47	0.654 0.641	-.1634028 -.1205652	.1025176 .1958936
timew1w3	0	(omitted)				
w1CVhighChol Yes	.0990532	.2973236	0.33	0.739	-.4858583	.6839646
w1CVhighChol#c.timew1w3 Yes	-.0198238	.0658721	-0.30	0.763	-.1489916	.109344
timew1w3 1.w1cvdbr	0 .4272046	(omitted) .3339336	1.28	0.201	-.2285555	1.082965
w1cvdbr#c.timew1w3 1	-.1601589	.0729214	-2.20	0.028	-.3031258	-.017192
timew1w3 invmillsmms	0 -.0169246	(omitted) .0075481	-2.24	0.025	-.0317185	-.0021306
c.timew1w3#c.invmillsmms	.0000732	.0014754	0.05	0.960	-.0028186	.002965
timew1w3 w1HCYcenter2p15	0 -.1229451	(omitted) .4061636	-0.30	0.762	-.9190586	.6731684
c.timew1w3#c.w1HCYcenter2p15	.1038469	.0864393	1.20	0.230	-.0655711	.273265
w1B12center522	-.000264	.0005835	-0.45	0.651	-.0014122	.0008843
c.timew1w3#c.w1B12center522	.000036	.0001207	0.30	0.765	-.0002006	.0002727
c.w1HCYcenter2p15#c.w1B12center522	.0011171	.0015738	0.71	0.479	-.00199	.0042242
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.0007385	.0003149	-2.34	0.019	-.0013558	-.0001212
_cons	7.760939	.6012272	12.91	0.000	6.582434	8.939444

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	8.29e-06	.0016652	7.5e-177	9.2e+165
sd(_cons)	3.098304	.0907277	2.925487	3.281329
sd(Residual)	2.909857	.0575099	2.799294	3.024786

```

227 .
228 .
229 . mi estimate: mixed Attention c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##PovStat c.
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010_total_scorecent43 c.timew1w3##c.w1BMIcent
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbr c.timew1w3##c.invmillsmms ///
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4eobs==1 || HNDID: timew1w3

Multiple-imputation estimates
Mixed-effects ML regression

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

Imputations = 5
Number of obs = 2,486
Number of groups = 1,418
Obs per group:
    min = 1
    avg = 1.8
    max = 2
Average RVI = 0.0349
Largest FMI = 0.2675
DF: min = 66.27
        avg = 2830625.05
        max = 7.03e+07
F( 47, 136507.3) = 9.39
Prob > F = 0.0000

```

	Attention	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0155681	.0663965	-0.23	0.815	-.1457056 .1145693
w1Agecent48		-.0154357	.0069298	-2.23	0.026	-.0290182 -.0018532
c.timew1w3##c.w1Agecent48		-.0027703	.0015854	-1.75	0.081	-.0058776 .000337
	timew1w3	0	(omitted)			
	Sex					
Men		-.2632742	.1230801	-2.14	0.032	-.5045067 -.0220416
	Sex##c.timew1w3					
Men		-.015617	.0278514	-0.56	0.575	-.0702047 .0389707
	timew1w3	0	(omitted)			
	Race					
AfrAm		-.7412719	.1229616	-6.03	0.000	-.9822749 -.5002689
	Race##c.timew1w3					
AfrAm		.0409704	.0280544	1.46	0.144	-.0140152 .095956
	timew1w3	0	(omitted)			
	PovStat					
Below		-.0717588	.1246129	-0.58	0.565	-.3159963 .1724787

PovStat#c.timew1w3 Below		<b>-.0409829</b>	<b>.027946</b>	<b>-1.47</b>	<b>0.143</b>	<b>-.0957578</b>	<b>.013792</b>
	timew1w3		<b>0</b> (omitted)				
w1edubr 2		<b>.4035535</b>	<b>.2437054</b>	<b>1.66</b>	<b>0.098</b>	<b>-.0741226</b>	<b>.8812297</b>
3		<b>.5339086</b>	<b>.2655227</b>	<b>2.01</b>	<b>0.044</b>	<b>.0134294</b>	<b>1.054388</b>
w1edubr#c.timew1w3 2		<b>-.0109521</b>	<b>.054599</b>	<b>-0.20</b>	<b>0.841</b>	<b>-.1179748</b>	<b>.0960705</b>
3		<b>-.0378909</b>	<b>.0591788</b>	<b>-0.64</b>	<b>0.522</b>	<b>-.1538834</b>	<b>.0781017</b>
timew1w3 w1WRATtotalcent42			<b>0</b> (omitted)				
c.timew1w3#c.w1WRATtotalcent42		<b>.070635</b>	<b>.0083269</b>	<b>8.48</b>	<b>0.000</b>	<b>.0543144</b>	<b>.0869556</b>
timew1w3 1.w1smoke			<b>0</b> (omitted)				
w1smoke#c.timew1w3 1		<b>-.1291939</b>	<b>.1363556</b>	<b>-0.95</b>	<b>0.345</b>	<b>-.3983379</b>	<b>.13995</b>
timew1w3 1.w1currdrugs			<b>0</b> (omitted)				
w1currdrugs#c.timew1w3 1		<b>.3402755</b>	<b>.153421</b>	<b>2.22</b>	<b>0.027</b>	<b>.0394328</b>	<b>.6411182</b>
timew1w3 w1hei2010_total_scorecent43			<b>0</b> (omitted)				
c.timew1w3#c.w1hei2010_total_scorecent43		<b>-.0057321</b>	<b>.0054892</b>	<b>-1.04</b>	<b>0.298</b>	<b>-.0165615</b>	<b>.0050973</b>
.0000397		<b>.0012477</b>		<b>0.03</b>	<b>0.975</b>	<b>-.002406</b>	<b>.0024853</b>
timew1w3 w1BMICent30			<b>0</b> (omitted)				
c.timew1w3#c.w1BMICent30		<b>-.015413</b>	<b>.0085555</b>	<b>-1.80</b>	<b>0.072</b>	<b>-.0321825</b>	<b>.0013564</b>
timew1w3			<b>0</b> (omitted)				
w1SRH 2		<b>.4713466</b>	<b>.1596671</b>	<b>2.95</b>	<b>0.003</b>	<b>.1583973</b>	<b>.784296</b>
3		<b>.3843856</b>	<b>.1719327</b>	<b>2.24</b>	<b>0.025</b>	<b>.0473862</b>	<b>.721385</b>
w1SRH#c.timew1w3 2		<b>-.035816</b>	<b>.0365871</b>	<b>-0.98</b>	<b>0.328</b>	<b>-.1075258</b>	<b>.0358937</b>
3		<b>-.0067275</b>	<b>.0394815</b>	<b>-0.17</b>	<b>0.865</b>	<b>-.0841166</b>	<b>.0706615</b>
timew1w3 w1CEScent15			<b>0</b> (omitted)				
c.timew1w3#c.w1CEScent15		<b>-.0072737</b>	<b>.0055571</b>	<b>-1.31</b>	<b>0.191</b>	<b>-.0181658</b>	<b>.0036185</b>
.0004391		<b>.0012641</b>		<b>-0.35</b>	<b>0.728</b>	<b>-.0029167</b>	<b>.0020385</b>
timew1w3			<b>0</b> (omitted)				
w1dxHTN Yes							
.0554323		<b>.1344842</b>		<b>0.41</b>	<b>0.680</b>	<b>-.2082939</b>	<b>.3191584</b>
w1dxHTN#c.timew1w3 Yes		<b>-.0476572</b>	<b>.0308037</b>	<b>-1.55</b>	<b>0.122</b>	<b>-.1080377</b>	<b>.0127233</b>

	timew1w3	<b>0</b> (omitted)				
w1dxDiabetes						
preDiabetes		-.2445226	.1518538	-1.61	0.107	-.542153
Diabetes		-.3336887	.1878105	-1.78	0.076	-.7028056
w1dxDiabetes#c.timew1w3						
preDiabetes		.0752601	.0352752	2.13	0.033	.0061217
Diabetes		-.0238232	.0416534	-0.57	0.567	-.1054708
timew1w3		<b>0</b> (omitted)				
w1CVhighChol						
Yes		.1449244	.1523288	0.95	0.343	-.1560308
w1CVhighChol#c.timew1w3						
Yes		.0241863	.0342824	0.71	0.481	-.0430555
timew1w3		<b>0</b> (omitted)				
1.w1cvdbr		.0370512	.1823585	0.20	0.840	-.3270115
w1cvdbr#c.timew1w3						
1		.0209611	.0408433	0.51	0.609	-.0598846
timew1w3		<b>0</b> (omitted)				
invmillsmms		.0025556	.0035196	0.73	0.468	-.0043428
c.timew1w3#c.invmillsmms						
timew1w3		<b>0</b> (omitted)				
w1HCYcenter2p15		.0172882	.202697	0.09	0.932	-.3799921
c.timew1w3#c.w1HCYcenter2p15						
timew1w3		<b>0</b> (omitted)				
w1B12center522		.0002964	.0002744	1.08	0.280	-.0002416
c.timew1w3#c.w1B12center522						
timew1w3		<b>0</b> (omitted)				
c.w1HCYcenter2p15#c.w1B12center522		.00006	.0000618	0.97	0.331	-.0000611
c.w1HCYcenter2p15#c.w1B12center522						
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522						
_cons		6.532637	.292954	22.30	0.000	5.958453
						7.106821

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.0937075	.042623	.0384241 .2285308
sd(_cons)	1.379564	.0459359	1.292406 1.4726
sd(Residual)	1.374843	.0440593	1.291144 1.463967

230 .

```
231 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4fobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID	Number of groups = 1,446
	Obs per group:
	min = 1
	avg = 1.9
	max = 2
DF adjustment: Large sample	Average RVI = 0.0522
	Largest FMI = 0.2728
	DF: min = 63.80
	avg = 1222149.84
	max = 4.91e+07
Model F test: Equal FMI	F( 47,63128.2) = 8.41
	Prob > F = 0.0000

	FluencyWord	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0065599	.1328513	-0.05	0.961	-.2669765 .2538567
	w1Agecent48	-.0931344	.0164681	-5.66	0.000	-.125422 -.0608468
	c.timew1w3##c.w1Agecent48	-.0020108	.0032054	-0.63	0.530	-.0082936 .0042719
	timew1w3	0	(omitted)			
	Sex					
	Men	1.185336	.287803	4.12	0.000	.6212459 1.749426
	Sex##c.timew1w3					
	Men	-.0110787	.0560048	-0.20	0.843	-.1208471 .0986896
	timew1w3	0	(omitted)			
	Race					
	AfrAm	-1.485785	.2890133	-5.14	0.000	-2.052262 -.9193077
	Race##c.timew1w3					
	AfrAm	-.0221197	.0569799	-0.39	0.698	-.133805 .0895656
	timew1w3	0	(omitted)			
	PovStat					
	Below	-.3963982	.293118	-1.35	0.176	-.9709134 .178117
	PovStat##c.timew1w3					
	Below	.0084808	.0560819	0.15	0.880	-.1014393 .1184009
	timew1w3	0	(omitted)			
	w1edubr					
	2	-.3952489	.5696187	-0.69	0.488	-1.511745 .7212476
	3	.8305262	.6193999	1.34	0.180	-.3835354 2.044588
	w1edubr##c.timew1w3					
	2	.0939845	.109583	0.86	0.391	-.1209174 .3088864

	3	.0627328	.1207091	0.52	0.603	-.1740239	.2994895
timew1w3		0 (omitted)					
w1WRATtotalcent42		.1544626	.0193368	7.99	0.000	.1165625	.1923626
c.timew1w3#c.w1WRATtotalcent42		.0030785	.0037795	0.81	0.415	-.0043297	.0104868
timew1w3		0 (omitted)					
1.w1smoke		-.3931431	.3268214	-1.20	0.233	-1.044268	.257982
w1smoke#c.timew1w3							
1		.020602	.0627463	0.33	0.743	-.102644	.1438481
timew1w3		0 (omitted)					
1.w1currdrugs		.4151499	.3766144	1.10	0.272	-.3284703	1.15877
w1currdrugs#c.timew1w3							
1		-.0262531	.072199	-0.36	0.716	-.1678289	.1153228
timew1w3		0 (omitted)					
w1hei2010_total_scorecent43		.0242334	.0129952	1.86	0.067	-.0017291	.0501958
c.timew1w3#c.w1hei2010_total_scorecent43		-.0031657	.0025762	-1.23	0.219	-.0082175	.0018862
timew1w3		0 (omitted)					
w1BMIcon30		.0206194	.0202263	1.02	0.308	-.0190453	.0602841
c.timew1w3#c.w1BMIcon30		.0014804	.0038572	0.38	0.701	-.0060798	.0090406
timew1w3		0 (omitted)					
w1SRH							
2		-.0670534	.3729864	-0.18	0.857	-.7981269	.6640201
3		.1579194	.4019853	0.39	0.694	-.6300237	.9458625
w1SRH#c.timew1w3							
2		.0336885	.07312	0.46	0.645	-.1096266	.1770035
3		-.0320414	.078278	-0.41	0.682	-.1854656	.1213828
timew1w3		0 (omitted)					
w1CEScent15							
c.timew1w3#c.w1CEScent15		-.0352018	.0129831	-2.71	0.007	-.0606505	-.009753
timew1w3		.0022935	.0025412	0.90	0.367	-.0026874	.0072743
w1dxHTN		0 (omitted)					
Yes		.4085582	.3154623	1.30	0.196	-.2107016	1.027818
w1dxHTN#c.timew1w3							
Yes		-.0668189	.0624043	-1.07	0.284	-.1891914	.0555536
timew1w3		0 (omitted)					
w1dxDiabetes							
preDiabetes		-.0638023	.359234	-0.18	0.859	-.7680998	.6404951
Diabetes		-.027109	.4135077	-0.07	0.948	-.8376392	.7834211
w1dxDiabetes#c.timew1w3							
preDiabetes		.0164291	.0718511	0.23	0.819	-.1244346	.1572928
Diabetes		.0730202	.0854706	0.85	0.393	-.0946359	.2406764
timew1w3		0 (omitted)					

w1CVhighChol Yes	.0543856	.3641639	0.15	0.882	-.6728586	.7816297
w1CVhighChol#c.timew1w3 Yes	.0496315	.0739157	0.67	0.503	-.0964235	.1956865
timew1w3 1.w1cvdbr	0 .2302694	(omitted) .3732696	0.62	0.538	-.5025914	.9631302
w1cvdbr#c.timew1w3 1	-.0285334	.0763723	-0.37	0.709	-.1783365	.1212697
timew1w3 invmillsmms	0 .0096895	(omitted) .0088178	1.10	0.272	-.0075932	.0269722
c.timew1w3#c.invmillsmms	-.0015	.001578	-0.95	0.342	-.0045928	.0015927
timew1w3 w1HCYcenter2p15	0 -.0593841	(omitted) .4613349	-0.13	0.898	-.9635841	.844816
c.timew1w3#c.w1HCYcenter2p15	-.0155373	.0906969	-0.17	0.864	-.1933119	.1622374
w1B12center522	.0005265	.0006259	0.84	0.400	-.0007002	.0017533
c.timew1w3#c.w1B12center522	.0000531	.0001256	0.42	0.673	-.0001932	.0002993
c.w1HCYcenter2p15#c.w1B12center522	-.0027959	.0016401	-1.70	0.088	-.0060106	.0004187
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	.0002137	.0003272	0.65	0.514	-.0004277	.000855
_cons	19.08843	.6890522	27.70	0.000	17.73774	20.43912

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	.1251529	.165595	.0093579	1.673797
sd(_cons)	3.851066	.0984702	3.662824	4.048981
sd(Residual)	3.009162	.0946773	2.829203	3.200569

232 .  
233 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4gobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations = 5  
Number of obs = 2,717

Group variable: HNDID Number of groups = 1,443  
 Obs per group:  
 min = 1  
 avg = 1.9  
 max = 2  
 Average RVI = 0.0660  
 Largest FMI = 0.4610  
 DF adjustment: Large sample DF: min = 23.09  
 avg = 155,224.00  
 max = 1913887.62  
 Model F test: Equal FMI F( 47,40969.2) = 10.75  
 Prob > F = 0.0000

	DigitSpanFwd	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0166067	.0527418	0.31	0.753	-.0867657	.119979
w1Agecent48	-.0081124	.0063744	-1.27	0.203	-.0206068	.004382
c.timew1w3#c.w1Agecent48	-.0033001	.0012803	-2.58	0.010	-.0058096	-.0007906
timew1w3	0 (omitted)					
Sex						
Men	.1861332	.1124883	1.65	0.098	-.0343426	.4066091
Sex#c.timew1w3						
Men	-.0394016	.0223703	-1.76	0.078	-.0832473	.004444
timew1w3	0 (omitted)					
Race						
AfrAm	-.3144812	.1134044	-2.77	0.006	-.5368128	-.0921495
Race#c.timew1w3						
AfrAm	-.0112711	.0224467	-0.50	0.616	-.0552661	.0327239
timew1w3	0 (omitted)					
PovStat						
Below	-.0935351	.1137101	-0.82	0.411	-.3164087	.1293384
PovStat#c.timew1w3						
Below	-.020528	.0222608	-0.92	0.356	-.0641587	.0231027
timew1w3	0 (omitted)					
w1edubr						
2	-.1029171	.2222973	-0.46	0.643	-.5386184	.3327841
3	.1696051	.2418142	0.70	0.483	-.3043627	.6435729
w1edubr#c.timew1w3						
2	-.0035766	.0428048	-0.08	0.933	-.0874727	.0803196
3	-.0223048	.0469238	-0.48	0.635	-.1142746	.0696651
timew1w3	0 (omitted)					
w1WRATtotalcent42	.1121801	.0075973	14.77	0.000	.097288	.1270722
c.timew1w3#c.w1WRATtotalcent42	.0001324	.0015073	0.09	0.930	-.0028219	.0030868
timew1w3	0 (omitted)					
1.w1smoke	.1816465	.123786	1.47	0.145	-.0634769	.4267698

w1smoke#c.timew1w3						
1	-.0124789	.0248119	-0.50	0.615	-.0611845	.0362267
timew1w3	0	(omitted)				
1.w1currdrugs	.4026699	.1764901	2.28	0.032	.0376485	.7676914
w1currdrugs#c.timew1w3						
1	-.0059162	.0302528	-0.20	0.845	-.0654623	.05363
timew1w3	0	(omitted)				
w1hei2010_total_scorecent43	.0012938	.0047776	0.27	0.787	-.0081307	.0107183
c.timew1w3#c.w1hei2010_total_scorecent43	.0001287	.0011219	0.11	0.909	-.0020977	.002355
timew1w3	0	(omitted)				
w1BMICent30	-.008611	.0079373	-1.08	0.278	-.0241804	.0069583
c.timew1w3#c.w1BMICent30	-.0015529	.0015512	-1.00	0.317	-.0045938	.0014879
timew1w3	0	(omitted)				
w1SRH						
2	-.0021187	.1450727	-0.01	0.988	-.2864579	.2822204
3	.073656	.1568888	0.47	0.639	-.2338826	.3811945
w1SRH#c.timew1w3						
2	.0250443	.0292762	0.86	0.392	-.0323359	.0824246
3	.0161584	.0316195	0.51	0.609	-.0458197	.0781366
timew1w3	0	(omitted)				
w1CEScent15						
c.timew1w3#c.w1CEScent15	-.0042321	.0050753	-0.83	0.404	-.0141809	.0057168
timew1w3	0	(omitted)				
w1dxHTN						
Yes	.063356	.1203832	0.53	0.599	-.1726167	.2993287
w1dxHTN#c.timew1w3						
Yes	-.0014633	.0249408	-0.06	0.953	-.0503653	.0474387
timew1w3	0	(omitted)				
w1dxDiabetes						
preDiabetes	-.0906088	.1403266	-0.65	0.519	-.3657367	.1845191
Diabetes	-.0658309	.1688025	-0.39	0.697	-.397454	.2657923
w1dxDiabetes#c.timew1w3						
preDiabetes	.0293403	.0283048	1.04	0.300	-.0261379	.0848184
Diabetes	.0026382	.0347804	0.08	0.940	-.0656157	.0708921
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.0925149	.1350974	-0.68	0.495	-.3595271	.1744974
w1CVhighChol#c.timew1w3						
Yes	.009819	.0282122	0.35	0.728	-.045627	.065265
timew1w3	0	(omitted)				
1.w1cvnbr	-.1189943	.1460773	-0.81	0.416	-.4057058	.1677172

w1cvdbr#c.timew1w3 1	<b>-.0031978</b>	<b>.0302602</b>	<b>-0.11</b>	<b>0.916</b>	<b>-.0625251</b>	<b>.0561295</b>
timew1w3 invmillsmms	<b>0</b> (omitted) <b>.0059787</b>	<b>.0034161</b>	<b>1.75</b>	<b>0.080</b>	<b>-.0007167</b>	<b>.0126741</b>
c.timew1w3#c.invmillsmms	<b>-.0005347</b>	<b>.00062</b>	<b>-0.86</b>	<b>0.389</b>	<b>-.0017499</b>	<b>.0006806</b>
timew1w3 w1HCYcenter2p15	<b>0</b> (omitted) <b>.0208087</b>	<b>.1832038</b>	<b>0.11</b>	<b>0.910</b>	<b>-.3383562</b>	<b>.3799735</b>
c.timew1w3#c.w1HCYcenter2p15	<b>-.0285135</b>	<b>.0365746</b>	<b>-0.78</b>	<b>0.436</b>	<b>-.1001994</b>	<b>.0431724</b>
w1B12center522	<b>.0002332</b>	<b>.0002574</b>	<b>0.91</b>	<b>0.366</b>	<b>-.0002729</b>	<b>.0007392</b>
c.timew1w3#c.w1B12center522	<b>-.0000235</b>	<b>.0000498</b>	<b>-0.47</b>	<b>0.637</b>	<b>-.0001211</b>	<b>.0000742</b>
c.w1HCYcenter2p15#c.w1B12center522	<b>.0003436</b>	<b>.0006519</b>	<b>0.53</b>	<b>0.598</b>	<b>-.0009349</b>	<b>.0016222</b>
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	<b>-7.38e-06</b>	<b>.0001314</b>	<b>-0.06</b>	<b>0.955</b>	<b>-.0002648</b>	<b>.0002501</b>
_cons	<b>7.23927</b>	<b>.2703979</b>	<b>26.77</b>	<b>0.000</b>	<b>6.709196</b>	<b>7.769343</b>

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	<b>.0893227</b>	<b>.0360172</b>	<b>.0405259</b>
sd(_cons)	<b>1.512021</b>	<b>.0391789</b>	<b>1.437147</b>
sd(Residual)	<b>1.155649</b>	<b>.0374283</b>	<b>1.08457</b>
			<b>1.231385</b>

234 .  
235 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4hobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,704

Group variable: HNDID

Number of groups	=	1,444
Obs per group:		
min	=	1
avg	=	1.9
max	=	2

Average RVI = 0.0685  
Largest FMI = 0.5054

DF adjustment: Large sample

DF:	min	=	19.20
	avg	=	1.97e+08
	max	=	1.00e+10

Model F test: Equal FMI

F( 47, 37917.6)	=	15.17
Prob > F	=	0.0000

	DigitSpanBck	Coefficient	Std. err.	t	P> t	[95% conf. interval]
	timew1w3	-.0310146	.0552327	-0.56	0.574	-.1393107 .0772815
	w1Agecent48	-.0174326	.0061894	-2.82	0.005	-.0295681 -.005297
c.timew1w3#c.w1Agecent48		-.0014377	.001315	-1.09	0.274	-.0040151 .0011396
	timew1w3	0	(omitted)			
	Sex Men	-.082137	.1079346	-0.76	0.447	-.2936855 .1294115
	Sex#c.timew1w3 Men	-.0255238	.0230254	-1.11	0.268	-.0706528 .0196052
	timew1w3	0	(omitted)			
	Race AfrAm	-.577449	.1071308	-5.39	0.000	-.7874218 -.3674761
	Race#c.timew1w3 AfrAm	-.022759	.0230889	-0.99	0.324	-.0680126 .0224946
	timew1w3	0	(omitted)			
	PovStat Below	-.1024846	.1093029	-0.94	0.348	-.316724 .1117547
	PovStat#c.timew1w3 Below	-.0007328	.0229557	-0.03	0.975	-.0457259 .0442602
	timew1w3	0	(omitted)			
	w1edubr 2	-.2026653	.2136207	-0.95	0.343	-.6213661 .2160355
	3	.1345482	.2321522	0.58	0.562	-.3204718 .5895682
	w1edubr#c.timew1w3 2	.055103	.0441267	1.25	0.212	-.031385 .141591
	3	.0270114	.048263	0.56	0.576	-.0675826 .1216054
	timew1w3	0	(omitted)			
	w1WRATtotalcent42	.1224176	.0072703	16.84	0.000	.108168 .1366672
c.timew1w3#c.w1WRATtotalcent42		-.0018304	.00156	-1.17	0.241	-.0048881 .0012273
	timew1w3	0	(omitted)			
	1.w1smoke	-.0081161	.1224822	-0.07	0.947	-.2512381 .2350059
	w1smoke#c.timew1w3 1	.0031491	.0278001	0.11	0.910	-.0521092 .0584073
	timew1w3	0	(omitted)			
	1.w1currdrugs	.0838773	.1440817	0.58	0.561	-.2007978 .3685524
	w1currdrugs#c.timew1w3 1	.029263	.0304448	0.96	0.337	-.0305178 .0890438
	timew1w3	0	(omitted)			
	w1hei2010_total_scorecent43	-.0019117	.0050834	-0.38	0.708	-.012097 .0082736
c.timew1w3#c.w1hei2010_total_scorecent43		.0011986	.0011801	1.02	0.313	-.0011555 .0035526

	timew1w3	0 (omitted)					
w1BMICent30		.0022115	.0075729	-0.29	0.770	-.0170597	.0126366
c.timew1w3#c.w1BMICent30		-.0029401	.0016028	-1.83	0.067	-.0060823	.0002021
	timew1w3	0 (omitted)					
w1SRH							
2		-.0069287	.1402399	-0.05	0.961	-.2818207	.2679633
3		.1240044	.1541419	0.80	0.421	-.1784558	.4264645
w1SRH#c.timew1w3							
2		-.0219317	.0301538	-0.73	0.467	-.0810337	.0371702
3		-.0266995	.0326243	-0.82	0.413	-.0906515	.0372524
	timew1w3	0 (omitted)					
w1CEScent15		-.0027764	.0048356	-0.57	0.566	-.012254	.0067013
c.timew1w3#c.w1CEScent15		-.0009675	.0010466	-0.92	0.355	-.0030187	.0010838
	timew1w3	0 (omitted)					
w1dxHTN							
Yes		-.0593744	.1172814	-0.51	0.613	-.2893449	.1705961
w1dxHTN#c.timew1w3							
Yes		.0075748	.0255981	0.30	0.767	-.0426085	.0577581
	timew1w3	0 (omitted)					
w1dxDiabetes							
preDiabetes		.2468721	.1340872	1.84	0.066	-.0159516	.5096958
Diabetes		-.1211701	.1700215	-0.71	0.477	-.4570664	.2147261
w1dxDiabetes#c.timew1w3							
preDiabetes		.0034091	.0292216	0.12	0.907	-.0538667	.0606849
Diabetes		-.0130796	.0356664	-0.37	0.714	-.0830481	.0568889
	timew1w3	0 (omitted)					
w1CVhighChol							
Yes		-.0627903	.1283147	-0.49	0.625	-.3152383	.1896577
w1CVhighChol#c.timew1w3							
Yes		.0266813	.0304787	0.88	0.383	-.0335854	.086948
	timew1w3	0 (omitted)					
1.w1cvdbr		-.0155572	.1862492	-0.08	0.934	-.4051038	.3739895
w1cvdbr#c.timew1w3							
1		.0282393	.0346886	0.81	0.418	-.04075	.0972286
	timew1w3	0 (omitted)					
invmillsmms		.0050056	.0032729	1.53	0.126	-.0014091	.0114203
c.timew1w3#c.invmillsmms		-.0004036	.0006377	-0.63	0.527	-.0016535	.0008463
	timew1w3	0 (omitted)					
w1HCYcenter2p15		.1451867	.1750398	0.83	0.407	-.1979189	.4882923
c.timew1w3#c.w1HCYcenter2p15		-.0097099	.0378017	-0.26	0.797	-.0838038	.0643841

w1B12center522	.0006218	.0002409	2.58	0.010	.0001497	.001094
c.timew1w3#c.w1B12center522	-.0000591	.0000514	-1.15	0.250	-.0001599	.0000416
c.w1HCYcenter2p15#c.w1B12center522	.0009269	.0006383	1.45	0.147	-.0003246	.0021784
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.0001604	.000139	-1.15	0.248	-.0004328	.000112
_cons	5.997131	.2625465	22.84	0.000	5.482233	6.512029

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	3.31e-06	.0007857	5.4e-208	2.0e+196
sd(_cons)	1.338206	.0388283	1.264228	1.416514
sd(Residual)	1.234214	.0247158	1.18671	1.28362

236 .  
237 . 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.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4iobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Imputations	=	5
Number of obs	=	2,767

Group variable: HNDID

Number of groups	=	1,445
Obs per group:		
min	=	1
avg	=	1.9
max	=	2
Average RVI	=	0.0498
Largest FMI	=	0.2870

DF adjustment: Large sample

DF:	min	=	57.91
	avg	=	960,480.61
	max	=	2.20e+07

Model F test: Equal FMI

F( 47,69029.8)	=	5.26
Prob > F	=	0.0000

clock_command	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
timew1w3	-.061952	.0423613	-1.46	0.144	-.1450087	.0211047
w1Agecent48	-.00304	.0038011	-0.80	0.424	-.01049	.00441
c.timew1w3#c.w1Agecent48	-.0010234	.0010104	-1.01	0.311	-.003004	.0009572
timew1w3		0 (omitted)				
Sex						
Men	.0837128	.0670032	1.25	0.212	-.0476112	.2150367
Sex#c.timew1w3						
Men	.0153028	.0176121	0.87	0.385	-.019217	.0498225
timew1w3		0 (omitted)				
Race						

AfrAm		<b>-.3180955</b>	<b>.066897</b>	<b>-4.76</b>	<b>0.000</b>	<b>-.4492114</b>	<b>-.1869796</b>
Race#c.timew1w3							
AfrAm		<b>.01972</b>	<b>.0177348</b>	<b>1.11</b>	<b>0.266</b>	<b>-.0150398</b>	<b>.0544797</b>
timew1w3			<b>0</b>	(omitted)			
PovStat							
Below			<b>.0658725</b>	<b>.0682004</b>	<b>0.97</b>	<b>0.334</b>	<b>-.0677985</b>
PovStat#c.timew1w3							
Below			<b>-.003054</b>	<b>.0175804</b>	<b>-0.17</b>	<b>0.862</b>	<b>-.037511</b>
timew1w3				<b>0</b>	(omitted)		
w1edubr							
2			<b>-.0452945</b>	<b>.1360907</b>	<b>-0.33</b>	<b>0.739</b>	<b>-.3121146</b>
3			<b>.1445364</b>	<b>.1477541</b>	<b>0.98</b>	<b>0.328</b>	<b>-.1451281</b>
w1edubr#c.timew1w3							
2			<b>.0466539</b>	<b>.0343643</b>	<b>1.36</b>	<b>0.175</b>	<b>-.0207077</b>
3			<b>.0575426</b>	<b>.0376668</b>	<b>1.53</b>	<b>0.127</b>	<b>-.0162931</b>
timew1w3				<b>0</b>	(omitted)		
w1WRATtotalcent42				<b>.0272516</b>	<b>.0045828</b>	<b>5.95</b>	<b>0.000</b>
c.timew1w3#c.w1WRATtotalcent42				<b>-.0011383</b>	<b>.0012021</b>	<b>-0.95</b>	<b>0.344</b>
timew1w3					<b>0</b>	(omitted)	
1.w1smoke				<b>-.0451471</b>	<b>.0752334</b>	<b>-0.60</b>	<b>0.549</b>
w1smoke#c.timew1w3							
1				<b>.0113396</b>	<b>.0198698</b>	<b>0.57</b>	<b>0.569</b>
timew1w3					<b>0</b>	(omitted)	
1.w1currdrugs				<b>.3276874</b>	<b>.0936637</b>	<b>3.50</b>	<b>0.001</b>
w1currdrugs#c.timew1w3							
1				<b>-.0607364</b>	<b>.0225694</b>	<b>-2.69</b>	<b>0.007</b>
timew1w3					<b>0</b>	(omitted)	
w1hei2010_total_scorecent43				<b>.002598</b>	<b>.0030146</b>	<b>0.86</b>	<b>0.389</b>
c.timew1w3#c.w1hei2010_total_scorecent43				<b>.0005006</b>	<b>.000859</b>	<b>0.58</b>	<b>0.561</b>
timew1w3					<b>0</b>	(omitted)	
w1BMIcon30				<b>-.0055399</b>	<b>.0047005</b>	<b>-1.18</b>	<b>0.239</b>
c.timew1w3#c.w1BMIcon30				<b>.0013102</b>	<b>.0012124</b>	<b>1.08</b>	<b>0.280</b>
timew1w3					<b>0</b>	(omitted)	
w1SRH							
2				<b>.1617679</b>	<b>.0872152</b>	<b>1.85</b>	<b>0.064</b>
3				<b>-.0198102</b>	<b>.0938982</b>	<b>-0.21</b>	<b>0.833</b>
w1SRH#c.timew1w3							
2				<b>.0059274</b>	<b>.023053</b>	<b>0.26</b>	<b>0.797</b>
3				<b>.0191492</b>	<b>.0247417</b>	<b>0.77</b>	<b>0.439</b>
timew1w3					<b>0</b>	(omitted)	
w1CEScent15				<b>-.0068001</b>	<b>.003045</b>	<b>-2.23</b>	<b>0.026</b>

c.timew1w3#c.w1CEScent15	.0007144	.000805	0.89	0.375	-.0008635	.0022924
timew1w3	0 (omitted)					
w1dxHTN Yes	.0717228	.0750052	0.96	0.339	-.0754809	.2189266
w1dxHTN#c.timew1w3 Yes	-.0372666	.0195609	-1.91	0.057	-.0756175	.0010844
timew1w3	0 (omitted)					
w1dxDiabetes preDiabetes Diabetes	-.0681376 .0581386	.0849268 .109394	-0.80 0.53	0.422 0.596	-.2346418 -.1589139	.0983667 .275191
w1dxDiabetes#c.timew1w3 preDiabetes Diabetes	.018326 -.0490918	.0223837 .0274318	0.82 -1.79	0.413 0.074	-.0255523 -.1029574	.0622042 .0047739
timew1w3	0 (omitted)					
w1CVhighChol Yes	-.0631768	.0900072	-0.70	0.486	-.2433514	.1169979
w1CVhighChol#c.timew1w3 Yes	.0090847	.0224373	0.40	0.686	-.0350682	.0532377
timew1w3 1.w1cvdbr	0 (omitted) -.0875178	.091957	-0.95	0.342	-.2681317	.0930962
w1cvdbr#c.timew1w3 1	.0012936	.0258817	0.05	0.960	-.049928	.0525152
timew1w3 invmillsmms	0 (omitted) .00088	.0020677	0.43	0.670	-.0031726	.0049326
c.timew1w3#c.invmillsmms	-.0002895	.000496	-0.58	0.559	-.0012616	.0006827
timew1w3 w1HCYcenter2p15	0 (omitted) -.0599648	.108642	-0.55	0.581	-.2729014	.1529718
c.timew1w3#c.w1HCYcenter2p15	-.0352342	.0286041	-1.23	0.218	-.0912982	.0208299
w1B12center522	-.0000798	.0001487	-0.54	0.591	-.0003712	.0002116
c.timew1w3#c.w1B12center522	2.61e-06	.0000398	0.07	0.948	-.0000754	.0000806
c.w1HCYcenter2p15#c.w1B12center522	.0002947	.0003916	0.75	0.452	-.0004729	.0010623
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	.0000661	.0001035	0.64	0.523	-.0001368	.0002689
_cons	8.790864	.1637909	53.67	0.000	8.469758	9.111971

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
<b>HNDID: Independent</b>				
sd(timew1w3)	.0300504	.0477656	.0013331	.677415
sd(_cons)	.6175956	.0306829	.5602934	.6807583
sd(Residual)	.9641623	.0245229	.9172762	1.013445

238 .  
239 . mi estimate: mixed LnTrailsAttestSec c.timew1w3##c.w1Agecent48 c.timew1w3##Sex c.timew1w3##Race c.timew1w3##Po  
> c.timew1w3##w1smoke c.timew1w3##w1currdrugs c.timew1w3##c.w1hei2010\_total\_scorecent43 c.timew1w3##c.w1BMIconcen  
> imew1w3##w1CVhighChol c.timew1w3##w1cvdbl c.timew1w3##c.invmillsmms ///  
> c.timew1w3##c.w1HCYcenter2p15##c.w1B12center522 ///  
> if sample4jobs==1 || HNDID: timew1w3

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: **HNDID**

DF adjustment: Large sample

Model F test: Equal FMI

	Imputations = 5
	Number of obs = 2,701
Number of groups	= 1,428
Obs per group:	
min	= 1
avg	= 1.9
max	= 2
Average RVI	= 0.0474
Largest FMI	= 0.3476
DF:	min = 40.10
	avg = 8660310.05
	max = 3.00e+08
F( 47, 75804.3)	= 10.77
Prob > F	= 0.0000

LnTrailsAttestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0087658	.0111305	0.79	0.431	-.0130503 .0305819
w1Agecent48	.0102729	.0011686	8.79	0.000	.0079825 .0125634
c.timew1w3#c.w1Agecent48	.0004751	.0002645	1.80	0.073	-.0000435 .0009936
timew1w3	0 (omitted)				
Sex					
Men	.090186	.0206838	4.36	0.000	.0496463 .1307256
Sex#c.timew1w3					
Men	.0027919	.0046356	0.60	0.547	-.0062937 .0118775
timew1w3	0 (omitted)				
Race					
AfrAm	.1603943	.0206284	7.78	0.000	.1199632 .2008253
Race#c.timew1w3					
AfrAm	-.0019119	.0046711	-0.41	0.682	-.0110672 .0072434
timew1w3	0 (omitted)				
PovStat					
Below	.0514213	.0210084	2.45	0.014	.0102454 .0925971
PovStat#c.timew1w3					

	Below	<b>- .000059</b>	<b>.0046225</b>	<b>-0.01</b>	<b>0.990</b>	<b>- .0091189</b>	<b>.009001</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	w1edubr						
	2	<b>-.060572</b>	<b>.0422133</b>	<b>-1.43</b>	<b>0.151</b>	<b>-.1433428</b>	<b>.0221987</b>
	3	<b>-.0499746</b>	<b>.0459265</b>	<b>-1.09</b>	<b>0.277</b>	<b>-.1400412</b>	<b>.0400919</b>
	w1edubr#c.timew1w3						
	2	<b>-.0064281</b>	<b>.0090857</b>	<b>-0.71</b>	<b>0.479</b>	<b>-.0242376</b>	<b>.0113814</b>
	3	<b>-.0092002</b>	<b>.0099626</b>	<b>-0.92</b>	<b>0.356</b>	<b>-.0287296</b>	<b>.0103292</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	w1WRATtotalcent42	<b>-.0071576</b>	<b>.0014225</b>	<b>-5.03</b>	<b>0.000</b>	<b>-.0099456</b>	<b>-.0043696</b>
	c.timew1w3#c.w1WRATtotalcent42	<b>-.0004861</b>	<b>.0003178</b>	<b>-1.53</b>	<b>0.126</b>	<b>-.001109</b>	<b>.0001368</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	1.w1smoke	<b>-.0035248</b>	<b>.0232077</b>	<b>-0.15</b>	<b>0.879</b>	<b>-.0493899</b>	<b>.0423402</b>
	w1smoke#c.timew1w3						
	1	<b>.0022768</b>	<b>.0050644</b>	<b>0.45</b>	<b>0.653</b>	<b>-.0076521</b>	<b>.0122056</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	1.w1currdrugs	<b>.0421917</b>	<b>.0270365</b>	<b>1.56</b>	<b>0.120</b>	<b>-.0109987</b>	<b>.0953822</b>
	w1currdrugs#c.timew1w3						
	1	<b>-.0057021</b>	<b>.006111</b>	<b>-0.93</b>	<b>0.351</b>	<b>-.0176973</b>	<b>.0062932</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	w1hei2010_total_scorecent43	<b>.000203</b>	<b>.0010235</b>	<b>0.20</b>	<b>0.844</b>	<b>-.0018655</b>	<b>.0022714</b>
	c.timew1w3#c.w1hei2010_total_scorecent43	<b>.0001096</b>	<b>.0002302</b>	<b>0.48</b>	<b>0.635</b>	<b>-.0003459</b>	<b>.000565</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	w1BMIcon30	<b>.001641</b>	<b>.0014541</b>	<b>1.13</b>	<b>0.259</b>	<b>-.0012099</b>	<b>.0044919</b>
	c.timew1w3#c.w1BMIcon30	<b>-.0004036</b>	<b>.0003181</b>	<b>-1.27</b>	<b>0.205</b>	<b>-.0010271</b>	<b>.00022</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	w1SRH						
	2	<b>-.0743825</b>	<b>.026954</b>	<b>-2.76</b>	<b>0.006</b>	<b>-.1272115</b>	<b>-.0215535</b>
	3	<b>-.0583369</b>	<b>.0290054</b>	<b>-2.01</b>	<b>0.044</b>	<b>-.1151868</b>	<b>-.0014869</b>
	w1SRH#c.timew1w3						
	2	<b>.0003606</b>	<b>.0061373</b>	<b>0.06</b>	<b>0.953</b>	<b>-.0116684</b>	<b>.0123896</b>
	3	<b>-.0021991</b>	<b>.0065777</b>	<b>-0.33</b>	<b>0.738</b>	<b>-.0150912</b>	<b>.0106931</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	w1CEScent15	<b>.0016814</b>	<b>.0009377</b>	<b>1.79</b>	<b>0.073</b>	<b>-.0001565</b>	<b>.0035193</b>
	c.timew1w3#c.w1CEScent15	<b>.0003471</b>	<b>.0002115</b>	<b>1.64</b>	<b>0.101</b>	<b>-.0000674</b>	<b>.0007616</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				
	w1dxHTN						
	Yes	<b>-.0181982</b>	<b>.0232371</b>	<b>-0.78</b>	<b>0.434</b>	<b>-.0638605</b>	<b>.027464</b>
	w1dxHTN#c.timew1w3						
	Yes	<b>.0057151</b>	<b>.0051756</b>	<b>1.10</b>	<b>0.270</b>	<b>-.004432</b>	<b>.0158622</b>
	timew1w3	<b>0</b>	<b>(omitted)</b>				

w1dxDiabetes						
preDiabetes	.0199185	.0265307	0.75	0.453	-.0321395	.0719765
Diabetes	.0403313	.0328632	1.23	0.222	-.0246172	.1052798
w1dxDiabetes#c.timew1w3						
preDiabetes	.0027685	.0058893	0.47	0.638	-.0087748	.0143117
Diabetes	-.0030978	.0070203	-0.44	0.659	-.0168574	.0106617
timew1w3	0	(omitted)				
w1CVhighChol						
Yes	-.0207812	.0278591	-0.75	0.460	-.0768658	.0353035
w1CVhighChol#c.timew1w3						
Yes	.0061026	.00586	1.04	0.298	-.00541	.0176152
timew1w3	0	(omitted)				
1.w1cvnbr	.0137757	.0279338	0.49	0.622	-.0411119	.0686703
w1cvnbr#c.timew1w3						
1	.0039518	.0066626	0.59	0.554	-.0091862	.0170899
timew1w3	0	(omitted)				
invmillsmms	.0003582	.0006242	0.57	0.566	-.0008653	.0015817
c.timew1w3#c.invmillsmms						
	-.0001514	.0001279	-1.18	0.237	-.0004021	.0000994
timew1w3	0	(omitted)				
w1HCYcenter2p15	.0816237	.0336524	2.43	0.015	.0156661	.1475813
c.timew1w3#c.w1HCYcenter2p15						
	-.0055425	.0077044	-0.72	0.472	-.0206441	.0095591
w1B12center522						
	.000019	.0000463	0.41	0.682	-.0000718	.0001098
c.timew1w3#c.w1B12center522						
	.0000126	.0000106	1.19	0.236	-8.25e-06	.0000335
c.w1HCYcenter2p15#c.w1B12center522						
	-.0000528	.0001214	-0.44	0.663	-.0002908	.0001852
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522						
	.0000401	.0000277	1.45	0.148	-.0000142	.0000943
_cons	3.413414	.0511623	66.72	0.000	3.313072	3.513757

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]
HNDID: Independent			
sd(timew1w3)	.020367	.0065162	.0108791 .0381295
sd(_cons)	.252126	.0077497	.2373854 .267782
sd(Residual)	.2385088	.0076031	.224063 .253886

240 .

```
241 . 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.w1HCYcenter2p15##c.w1B12center522 ///
> if sample4kobs==1 || HNDID: timew1w3
```

Multiple-imputation estimates  
Mixed-effects ML regression

Group variable: HNDID	Number of groups = 1,414
	Obs per group:
	min = 1
	avg = 1.8
	max = 2
	Average RVI = 0.0520
	Largest FMI = 0.2966
DF adjustment: Large sample	DF: min = 54.40
	avg = 7.44e+09
	max = 3.79e+11
Model F test: Equal FMI	F( 47,68312.0) = 17.86
	Prob > F = 0.0000

	LnTrailsBtestSec	Coefficient	Std. err.	t	P> t	[95% conf. interval]
timew1w3	.0088932	.0172057	0.52	0.605	-.0248588	.0426453
w1Agecent48	.0150143	.0018491	8.12	0.000	.0113901	.0186385
c.timew1w3##c.w1Agecent48	.0005664	.0003931	1.44	0.150	-.0002042	.0013369
timew1w3	0	(omitted)				
Sex						
Men	.064147	.0329169	1.95	0.051	-.0003713	.1286652
Sex#c.timew1w3						
Men	-.0026836	.006926	-0.39	0.698	-.0162586	.0108915
timew1w3	0	(omitted)				
Race						
AfrAm	.3294282	.0327612	10.06	0.000	.2652166	.3936398
Race#c.timew1w3						
AfrAm	-.0003002	.0070219	-0.04	0.966	-.0140628	.0134624
timew1w3	0	(omitted)				
PovStat						
Below	.0990151	.0333943	2.97	0.003	.0335624	.1644678
PovStat#c.timew1w3						
Below	.0014812	.0069557	0.21	0.831	-.0121522	.0151147
timew1w3	0	(omitted)				
w1edubr						
2	-.1099617	.0660748	-1.66	0.096	-.2394704	.019547
3	-.1925676	.0712958	-2.70	0.007	-.3323052	-.0528299
w1edubr#c.timew1w3						
2	-.0064728	.0139061	-0.47	0.642	-.0337355	.0207898

	3	-.0073341	.015061	-0.49	0.626	-.0368588	.0221906
timew1w3		0	(omitted)				
w1WRATtotalcent42		-.0248638	.0022778	-10.92	0.000	-.0293284	-.0203992
c.timew1w3#c.w1WRATtotalcent42		-.0002158	.0004955	-0.44	0.663	-.0011871	.0007554
timew1w3		0	(omitted)				
1.w1smoke		-.0123632	.0378808	-0.33	0.745	-.0877929	.0630665
w1smoke#c.timew1w3							
1		.0087394	.0081645	1.07	0.286	-.0073824	.0248612
timew1w3		0	(omitted)				
1.w1currdrugs		-.0285546	.044634	-0.64	0.524	-.1170797	.0599704
w1currdrugs#c.timew1w3							
1		-.0035005	.0095677	-0.37	0.715	-.02238	.0153789
timew1w3		0	(omitted)				
w1hei2010_total_scorecent43		.0008038	.0014059	0.57	0.568	-.0019633	.0035709
c.timew1w3#c.w1hei2010_total_scorecent43		-.0000874	.0003696	-0.24	0.814	-.0008283	.0006535
timew1w3		0	(omitted)				
w1BMIcon30		-.0009183	.0022701	-0.40	0.686	-.0053676	.0035311
c.timew1w3#c.w1BMIcon30		-.0005462	.0004772	-1.14	0.252	-.0014815	.0003891
timew1w3		0	(omitted)				
w1SRH							
2		-.1436852	.0431899	-3.33	0.001	-.2283501	-.0590203
3		-.0884698	.0465604	-1.90	0.057	-.1797508	.0028113
w1SRH#c.timew1w3							
2		.0024289	.0093313	0.26	0.795	-.0158613	.0207191
3		-.0024277	.0101542	-0.24	0.811	-.0223374	.0174821
timew1w3		0	(omitted)				
w1CEScent15		.0068245	.00153	4.46	0.000	.0038215	.0098274
c.timew1w3#c.w1CEScent15		-.0000664	.000321	-0.21	0.836	-.0006956	.0005628
timew1w3		0	(omitted)				
w1dxHTN							
Yes		.0235734	.0360234	0.65	0.513	-.0470905	.0942373
w1dxHTN#c.timew1w3							
Yes		-.0035619	.0076381	-0.47	0.641	-.0185323	.0114086
timew1w3		0	(omitted)				
w1dxDiabetes							
preDiabetes		.0687776	.0414748	1.66	0.097	-.0125467	.1501019
Diabetes		.1014142	.0501762	2.02	0.044	.0027472	.2000813
w1dxDiabetes#c.timew1w3							
preDiabetes		-.0097617	.0087767	-1.11	0.266	-.0269639	.0074405
Diabetes		.0024014	.010836	0.22	0.825	-.0188479	.0236508
timew1w3		0	(omitted)				

w1CVhighChol Yes	.0004937	.0392383	0.01	0.990	-.0767663	.0777538
w1CVhighChol#c.timew1w3 Yes	-.0032629	.0084297	-0.39	0.699	-.0197848	.013259
timew1w3 1.w1cvdbr	0 -.0625388	(omitted) .0431203	-1.45	0.147	-.1471467	.0220691
w1cvdbr#c.timew1w3 1	.0168442	.0093026	1.81	0.070	-.0013919	.0350804
timew1w3 invmillsmms	0 -.0024425	(omitted) .0009907	-2.47	0.014	-.0043842	-.0005008
c.timew1w3#c.invmillsmms	-.0003249	.0004778	-0.68	0.497	-.0012614	.0006116
timew1w3 w1HCYcenter2p15	0 .0567701	(omitted) .0535974	1.06	0.290	-.0482818	.161822
c.timew1w3#c.w1HCYcenter2p15	.0056366	.0113712	0.50	0.620	-.0166541	.0279273
w1B12center522	.0000677	.0000734	0.92	0.357	-.0000762	.0002115
c.timew1w3#c.w1B12center522	-6.05e-06	.0000158	-0.38	0.702	-.000037	.0000249
c.w1HCYcenter2p15#c.w1B12center522	.0000783	.000192	0.41	0.683	-.000298	.0004546
c.timew1w3#c.w1HCYcenter2p15#c.w1B12center522	-.0000845	.0000413	-2.05	0.041	-.0001655	-3.48e-06
_cons	4.565297	.0806825	56.58	0.000	4.407097	4.723498

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3)	2.49e-06	.0006681	8.3e-235	7.5e+222
sd(_cons)	.4164528	.0123833	.3928758	.4414448
sd(Residual)	.3594412	.0076735	.3447117	.3748001

```

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

245 .
246 .
247 .
248 .
249 . capture log close

```