```
                                  __  __   ___  __   ___
                                 /_  /  / __/ /  / __/(R)
                                __/ / / /__/ / / /__/
                                    Statistics/Data analysis
```

_____

```
      name:  <unnamed>
       log:  E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\HANDLS_PAPER64_HCYDEPANXIETY_LONG\OUTPU
  log type:  smcl
 opened on:  21 Jun 2024, 06:36:14
```

```
 1 .
 2 .
 3 . capture drop timew1w4

 4 . gen timew1w4=0 if HNDwave==1
   (50,154 missing values generated)

 5 . replace timew1w4=w4Age-w1Age if HNDwave==4
   (13,026 real changes made)

 6 .
 7 . capture drop w1CEScenter16

 8 . gen w1CEScenter16=w1CES-16
   (15,222 missing values generated)

 9 .
10 . capture drop LnHCys

11 . gen LnHCys=ln(HCys)
   (47,118 missing values generated)

12 .
13 . save, replace
   file finaldata_imputed_FINAL.dta saved

14 .
15 . ********************************TABLE S1: v1 DEPRESSIVE SYMPTOMS vs. HCYs CHANGE OVER TIME: OVERALL*************
16 .
17 . //MODEL 1: INCLUDE ONLY AGE, SEX, RACE AND POVERTY STATUS///
18 . mi estimate: mixed LnHCys c.timew1w3w4##c.w1CEScenter16  c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c.timew1
 > if sample4obs==1 || HNDID: timew1w3w4, cov(un)
```

```
  Multiple-imputation estimates              Imputations      =            5
  Mixed-effects ML regression                Number of obs    =        3,980

  Group variable: HNDID                       Number of groups =        1,445
                                             Obs per group:
                                                         min =            1
                                                         avg =          2.8
                                                         max =            3
                                             Average RVI      =       0.0000
                                             Largest FMI      =       0.0000
  DF adjustment:   Large sample              DF:      min     =     1.01e+56
                                                      avg     =     1.01e+56
                                                      max     =            .
  Model F test:         Equal FMI            F(  13,      .)   =        50.10
                                             Prob > F          =       0.0000
```

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0179805	.0017932	10.03	0.000	.0144659	.021495
w1CEScenter16	.0019161	.0007407	2.59	0.010	.0004644	.0033677
c.timew1w3w4#c.w1CEScenter16	.0000458	.0000869	0.53	0.598	-.0001245	.0002161
timew1w3w4	0	(omitted)				
w1Agecent48	.0078448	.0008831	8.88	0.000	.0061139	.0095757
c.timew1w3w4#c.w1Agecent48	3.26e-07	.0001027	0.00	0.997	-.0002009	.0002016
timew1w3w4	0	(omitted)				
Sex						
Men	.2040424	.0163665	12.47	0.000	.1719647	.23612
Sex#c.timew1w3w4						
Men	-.0042825	.0018748	-2.28	0.022	-.007957	-.000608
timew1w3w4	0	(omitted)				
Race						
AfrAm	.0141343	.0163875	0.86	0.388	-.0179847	.0462533
Race#c.timew1w3w4						
AfrAm	.002482	.0019073	1.30	0.193	-.0012563	.0062202
timew1w3w4	0	(omitted)				
PovStat						
Below	.0166283	.0172015	0.97	0.334	-.0170859	.0503426
PovStat#c.timew1w3w4						
Below	.0019801	.0019592	1.01	0.312	-.0018598	.00582
timew1w3w4	0	(omitted)				
invmillsCES	.0002766	.0007278	0.38	0.704	-.0011498	.001703
c.timew1w3w4#c.invmillsCES	-.0000176	.0000785	-0.22	0.823	-.0001714	.0001363
_cons	2.05671	.0149722	137.37	0.000	2.027365	2.086055

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0045317	.0062214	.0003074	.0668092
sd(_cons)	.2433726	.0075868	.2289479	.2587061
corr(timew1w3w4,_cons)	.6593863	1.142033	-.9964669	.9998509
sd(Residual)	.2000639	.0038597	.1926402	.2077737

```
19 .
20 .
21 . mi estimate: mixed LnHCys c.timew1w3w4##c.w1w3w4bayes1CES  c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c.time
   > if sample4obs==1 || HNDID: timew1w3w4, cov(un)
```

```
Multiple-imputation estimates              Imputations      =            5
Mixed-effects ML regression                Number of obs    =        4,024

Group variable: HNDID                       Number of groups =        1,460
                                            Obs per group:
                                                        min =            1
                                                        avg =          2.8
                                                        max =            3
                                            Average RVI      =       0.0000
                                            Largest FMI      =       0.0000
DF adjustment:   Large sample               DF:     min      =     2.05e+59
                                                    avg      =     7.74e+66
                                                    max      =         .
Model F test:    Equal FMI                  F( 13, 2.8e+62) =        51.19
                                            Prob > F         =       0.0000
```

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0182091	.0020113	9.05	0.000	.0142671	.0221512
w1w3w4bayes1CES	-.1900669	.0727324	-2.61	0.009	-.3326198	-.047514
c.timew1w3w4#c.w1w3w4bayes1CES	.0032634	.008216	0.40	0.691	-.0128396	.0193665
timew1w3w4	0	(omitted)				
w1Agecent48	.0078223	.0008752	8.94	0.000	.006107	.0095375
c.timew1w3w4#c.w1Agecent48	-.0000129	.0001016	-0.13	0.899	-.000212	.0001862
timew1w3w4	0	(omitted)				
Sex						
Men	.2035284	.0161821	12.58	0.000	.1718121	.2352447
Sex#c.timew1w3w4						
Men	-.0041876	.0018517	-2.26	0.024	-.0078168	-.0005583
timew1w3w4	0	(omitted)				
Race						
AfrAm	.0162295	.0162517	1.00	0.318	-.0156232	.0480821
Race#c.timew1w3w4						
AfrAm	.0022432	.0018909	1.19	0.235	-.0014628	.0059493
timew1w3w4	0	(omitted)				
PovStat						
Below	.0193269	.0168971	1.14	0.253	-.0137908	.0524447
PovStat#c.timew1w3w4						
Below	.0025191	.0019162	1.31	0.189	-.0012366	.0062748
timew1w3w4	0	(omitted)				
invmillsCES	.0002546	.0007252	0.35	0.725	-.0011667	.001676
c.timew1w3w4#c.invmillsCES	-.0000176	.0000782	-0.23	0.822	-.000171	.0001357

_cons	2.028259	.0172951	117.27	0.000	1.994362	2.062157

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0043252	.0064519	.0002324	.0804907
sd(_cons)	.2424075	.0075273	.2280943	.2576189
corr(timew1w3w4,_cons)	.7238979	1.322929	-.9997684	.9999941
sd(Residual)	.1995544	.0038321	.1921832	.2072083

22 .
23 .
24 . mi estimate: mixed LnHCys c.timew1w3w4##c.w1ANXIETY_ORD c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c.timew1
> if sample4obs==1 || HNDID: timew1w3w4, cov(un)

```
Multiple-imputation estimates              Imputations      =            5
Mixed-effects ML regression                Number of obs    =        3,259

Group variable: HNDID                       Number of groups =        1,181
                                            Obs per group:
                                                      min =            1
                                                      avg =          2.8
                                                      max =            3
                                            Average RVI      =       0.0000
                                            Largest FMI      =       0.0000
DF adjustment:    Large sample              DF:     min    =     1.48e+56
                                                    avg    =     2.11e+64
                                                    max    =            .
Model F test:        Equal FMI              F(  13, 4.4e+65) =        40.48
                                            Prob > F         =       0.0000
```

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0162879	.0021513	7.57	0.000	.0120713	.0205045
w1ANXIETY_ORD	.0042794	.0029311	1.46	0.144	-.0014654	.0100242
c.timew1w3w4#c.w1ANXIETY_ORD	.0003433	.0003333	1.03	0.303	-.0003099	.0009965
timew1w3w4	0	(omitted)				
w1Agecent48	.0078282	.0009862	7.94	0.000	.0058952	.0097612
c.timew1w3w4#c.w1Agecent48	.0000603	.0001126	0.54	0.592	-.0001603	.0002809
timew1w3w4	0	(omitted)				
Sex						
Men	.1907223	.0182735	10.44	0.000	.1549069	.2265377
Sex#c.timew1w3w4						
Men	-.0035456	.0020546	-1.73	0.084	-.0075725	.0004813
timew1w3w4	0	(omitted)				
Race						
AfrAm	.0091122	.018393	0.50	0.620	-.0269373	.0451618
Race#c.timew1w3w4						
AfrAm	.0028688	.0021072	1.36	0.173	-.0012612	.0069987

timew1w3w4	0	(omitted)				
PovStat						
Below	.0224855	.0190064	1.18	0.237	-.0147663	.0597372
PovStat#c.timew1w3w4						
Below	.0020199	.0021411	0.94	0.345	-.0021765	.0062164
timew1w3w4	0	(omitted)				
invmillsCES	.0000737	.0007627	0.10	0.923	-.0014211	.0015685
c.timew1w3w4#c.invmillsCES	-4.23e-06	.000081	-0.05	0.958	-.000163	.0001545
_cons	2.048509	.0188357	108.76	0.000	2.011591	2.085426

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0056681	.0053192	.0009008	.0356655
sd(_cons)	.2451753	.0083822	.2292849	.262167
corr(timew1w3w4,_cons)	.4268914	.6215599	-.7753585	.9599917
sd(Residual)	.1996878	.0042378	.1915522	.208169

25 .
26 . mi estimate: mixed LnHCys c.timew1w3w4##c.zR_traj_ProbG2ANXIETY c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex
> if sample4obs==1 || HNDID: timew1w3w4, cov(un)

```
Multiple-imputation estimates              Imputations     =          5
Mixed-effects ML regression                Number of obs   =      3,847

Group variable: HNDID                      Number of groups =      1,383
                                           Obs per group:
                                                        min =          1
                                                        avg =        2.8
                                                        max =          3
                                           Average RVI     =     0.0000
                                           Largest FMI     =     0.0000
DF adjustment:   Large sample              DF:     min     =   1.04e+56
                                                   avg     =   1.23e+67
                                                   max     =          .
Model F test:        Equal FMI             F( 13, 3.1e+70) =      48.21
                                           Prob > F        =     0.0000
```

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0180566	.0017864	10.11	0.000	.0145553	.0215579
zR_traj_ProbG2ANXIETY	.0024061	.0085021	0.28	0.777	-.0142577	.0190699
c.timew1w3w4#c.zR_traj_ProbG2ANXIETY	.0019044	.0009555	1.99	0.046	.0000316	.0037771
timew1w3w4	0	(omitted)				
w1Agecent48	.0076868	.0009104	8.44	0.000	.0059026	.0094711
c.timew1w3w4#c.w1Agecent48	.0000132	.0001033	0.13	0.899	-.0001894	.0002157
timew1w3w4	0	(omitted)				

Sex						
Men	.196015	.0168039	11.66	0.000	.16308	.22895
Sex#c.timew1w3w4						
Men	-.0040043	.0018813	-2.13	0.033	-.0076916	-.000317
timew1w3w4	0	(omitted)				
Race						
AfrAm	.0074792	.0169152	0.44	0.658	-.0256739	.0406323
Race#c.timew1w3w4						
AfrAm	.0022574	.0019242	1.17	0.241	-.0015139	.0060287
timew1w3w4	0	(omitted)				
PovStat						
Below	.0193377	.0175039	1.10	0.269	-.0149693	.0536446
PovStat#c.timew1w3w4						
Below	.0018727	.0019504	0.96	0.337	-.0019501	.0056954
timew1w3w4	0	(omitted)				
invmillsCES	.0002752	.0007324	0.38	0.707	-.0011603	.0017107
c.timew1w3w4#c.invmillsCES	-.0000107	.0000782	-0.14	0.891	-.000164	.0001426
_cons	2.059275	.0153593	134.07	0.000	2.029171	2.089379

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0057504	.0047966	.0011212	.029493
sd(_cons)	.2463084	.0076862	.2316951	.2618433
corr(timew1w3w4,_cons)	.3326205	.4843015	-.617852	.8881437
sd(Residual)	.1978077	.003843	.1904172	.2054852

```
27 .
28 . mi estimate: mixed LnHCys c.timew1w3w4##w1AnxietyDisorder  c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c.time
> if sample4obs==1 || HNDID: timew1w3w4, cov(un)
```

Multiple-imputation estimates   Imputations   =   5
Mixed-effects ML regression   Number of obs   =   3,705

Group variable: **HNDID**   Number of groups =   1,346
                                                 Obs per group:
                                                              min =   1
                                                              avg =   2.8
                                                              max =   3
                                                 Average RVI   =   0.0000
                                                 Largest FMI   =   0.0000
DF adjustment: **Large sample**   DF: min   =   1.16e+65
                                                           avg   =   1.15e+68
                                                           max   =   .
Model F test: **Equal FMI**   F(13, 1.6e+68)   =   47.68
                                                 Prob > F   =   0.0000

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0178461	.0019589	9.11	0.000	.0140068	.0216855
w1AnxietyDisorder						
Yes	-.0053736	.027987	-0.19	0.848	-.0602271	.0494799
w1AnxietyDisorder#c.timew1w3w4						
Yes	.0035685	.0034376	1.04	0.299	-.0031691	.0103061
timew1w3w4	0	(omitted)				
w1Agecent48	.0081379	.0009377	8.68	0.000	.0063	.0099759
c.timew1w3w4#c.w1Agecent48	-.0000599	.0001083	-0.55	0.580	-.0002722	.0001523
timew1w3w4	0	(omitted)				
Sex						
Men	.2046942	.0171991	11.90	0.000	.1709846	.2384037
Sex#c.timew1w3w4						
Men	-.0040471	.0019544	-2.07	0.038	-.0078775	-.0002166
timew1w3w4	0	(omitted)				
Race						
AfrAm	.0105911	.0174885	0.61	0.545	-.0236858	.044868
Race#c.timew1w3w4						
AfrAm	.0022269	.0020235	1.10	0.271	-.001739	.0061928
timew1w3w4	0	(omitted)				
PovStat						
Below	.0199468	.0178154	1.12	0.263	-.0149707	.0548643
PovStat#c.timew1w3w4						
Below	.0028167	.0020036	1.41	0.160	-.0011102	.0067436
timew1w3w4	0	(omitted)				
invmillsCES	.0002881	.0007415	0.39	0.698	-.0011652	.0017415
c.timew1w3w4#c.invmillsCES	-.0000216	.0000792	-0.27	0.785	-.0001767	.0001336
_cons	2.052361	.016632	123.40	0.000	2.019763	2.084959

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0032865	.0091341	.0000142	.7629244
sd(_cons)	.2484626	.0079688	.2333249	.2645824
corr(timew1w3w4,_cons)	.9362483	2.924107	-1	1
sd(Residual)	.2024758	.0040588	.1946749	.2105892

```
29 .
30 .
31 . save, replace
   file finaldata_imputed_FINAL.dta saved

32 .
33 .
34 .
35 . //MODEL 2: FULL MODEL///
36 .
37 . mi estimate: mixed LnHCys c.timew1w3w4##c.w1CEScenter16 c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c.timew1w
   > c.timew1w3w4##w1smoke  c.timew1w3w4##w1currdrugs c.timew1w3w4##c.w1hei2010_total_scorecent43 ///
   > c.timew1w3w4##c.w1BMIcent30 ///
   > if sample4obs==1 || HNDID: timew1w3w4, cov(un)
```

Multiple-imputation estimates   Imputations   =   5
Mixed-effects ML regression   Number of obs   =   3,980

Group variable: **HNDID**   Number of groups =   1,445
                                       Obs per group:
                                                    min =   1
                                                    avg =   2.8
                                                    max =   3
                                       Average RVI   =   0.0391
                                       Largest FMI   =   0.3025
DF adjustment: **Large sample**   DF: min   =   52.39
                                               avg   =   1.60e+07
                                               max   =   3.26e+08
Model F test: **Equal FMI**   F(25,47041.9)   =   25.96
                                       Prob > F   =   0.0000

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0186	.004486	4.15	0.000	.0098052	.0273948
w1CEScenter16	.0015831	.0007571	2.09	0.037	.0000992	.003067
c.timew1w3w4#c.w1CEScenter16	1.74e-06	.0000896	0.02	0.985	-.0001739	.0001774
timew1w3w4	0	(omitted)				
w1Agecent48	.00822	.0008959	9.18	0.000	.0064641	.0099759
c.timew1w3w4#c.w1Agecent48	.0000123	.0001045	0.12	0.906	-.0001925	.0002171
timew1w3w4	0	(omitted)				
Sex						
Men	.1985389	.0167964	11.82	0.000	.1656182	.2314596
Sex#c.timew1w3w4						
Men	-.0047893	.001926	-2.49	0.013	-.0085642	-.0010144
timew1w3w4	0	(omitted)				
Race						
AfrAm	.011738	.0165114	0.71	0.477	-.0206239	.0441
Race#c.timew1w3w4						
AfrAm	.0020064	.0019326	1.04	0.299	-.0017814	.0057943
timew1w3w4	0	(omitted)				
PovStat						

Below	.0115464	.0176568	0.65	0.513	-.0230602	.0461531
PovStat#c.timew1w3w4						
Below	.0008085	.0020368	0.40	0.691	-.0031836	.0048006
timew1w3w4	0	(omitted)				
w1edubr						
2	.0242389	.0355513	0.68	0.496	-.0456026	.0940804
3	.0261257	.036864	0.71	0.479	-.0462172	.0984686
w1edubr#c.timew1w3w4						
2	.001798	.0042179	0.43	0.670	-.0064705	.0100666
3	-.0026444	.0044262	-0.60	0.550	-.0113216	.0060327
timew1w3w4	0	(omitted)				
invmillsCES	.0002496	.0007263	0.34	0.731	-.0011739	.0016732
c.timew1w3w4#c.invmillsCES	-9.15e-06	.0000786	-0.12	0.907	-.0001632	.0001449
timew1w3w4	0	(omitted)				
1.w1smoke	.0161929	.0179023	0.90	0.366	-.0190153	.051401
w1smoke#c.timew1w3w4						
1	.0011968	.002203	0.54	0.587	-.0031218	.0055153
timew1w3w4	0	(omitted)				
1.w1currdrugs	.0216739	.0223714	0.97	0.334	-.0225969	.0659448
w1currdrugs#c.timew1w3w4						
1	-.0011063	.0026352	-0.42	0.675	-.006274	.0040614
timew1w3w4	0	(omitted)				
w1hei2010_total_scorecent43	-.0013299	.0007363	-1.81	0.077	-.0028072	.0001474
c.timew1w3w4#c.w1hei2010_total_scorecent43	-.0000605	.0000908	-0.67	0.506	-.0002388	.0001179
timew1w3w4	0	(omitted)				
w1BMIcent30	.0005615	.0011345	0.49	0.621	-.0016621	.0027851
c.timew1w3w4#c.w1BMIcent30	-.0000619	.0001318	-0.47	0.638	-.0003202	.0001964
_cons	2.026991	.0372159	54.47	0.000	1.953888	2.100094

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0044345	.006616	.0002382	.0825627
sd(_cons)	.2419181	.0075969	.2274774	.2572755
corr(timew1w3w4,_cons)	.6459346	1.541072	-.9997073	.9999865
sd(Residual)	.199863	.0038637	.192432	.2075811

```
38 .
39 .
40 . mi estimate: mixed LnHCys c.timew1w3w4##c.w1w3w4bayes1CES c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c.timew
   > c.timew1w3w4##w1smoke  c.timew1w3w4##w1currdrugs c.timew1w3w4##c.w1hei2010_total_scorecent43 ///
   > c.timew1w3w4##c.w1BMIcent30 ///
   > if sample4obs==1 || HNDID: timew1w3w4, cov(un)
```

Multiple-imputation estimates		Imputations	=	5
Mixed-effects ML regression		Number of obs	=	4,024
Group variable: **HNDID**		Number of groups	=	1,460
		Obs per group:		
		min =		1
		avg =		2.8
		max =		3
		Average RVI	=	.
		Largest FMI	=	.
DF adjustment: **Large sample**		DF: min	=	0.00
		avg	=	.
		max	=	.
Model F test: **Equal FMI**		F(25,41371.4)	=	26.52
		Prob > F	=	0.0000

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.019898	.0045656	4.36	0.000	.0109474	.0288486
w1w3w4bayes1CES	-.1622214	.0736112	-2.20	0.028	-.3064975	-.0179454
c.timew1w3w4#c.w1w3w4bayes1CES	.0062284	.00834	0.75	0.455	-.0101178	.0225746
timew1w3w4	0	(omitted)				
w1Agecent48	.0082006	.0008894	9.22	0.000	.0064575	.0099438
c.timew1w3w4#c.w1Agecent48	5.68e-06	.0001035	0.05	0.956	-.0001972	.0002085
timew1w3w4	0	(omitted)				
Sex						
Men	.1986548	.016606	11.96	0.000	.1661071	.2312025
Sex#c.timew1w3w4						
Men	-.0047621	.0018997	-2.51	0.012	-.0084855	-.0010387
timew1w3w4	0	(omitted)				
Race						
AfrAm	.0139862	.0163813	0.85	0.393	-.0181207	.0460932
Race#c.timew1w3w4						
AfrAm	.0017474	.0019169	0.91	0.362	-.0020098	.0055046
timew1w3w4	0	(omitted)				
PovStat						
Below	.0133013	.0174223	0.76	0.445	-.0208458	.0474484
PovStat#c.timew1w3w4						
Below	.001079	.0020079	0.54	0.591	-.0028564	.0050144
timew1w3w4	0	(omitted)				
w1edubr						

2	.0239046	.0352629	0.68	0.498	-.0453778	.0931871
3	.0236391	.0364798	0.65	0.517	-.0479518	.09523
w1edubr#c.timew1w3w4						
2	.0011511	.0041792	0.28	0.783	-.0070416	.0093437
3	-.0032585	.0043824	-0.74	0.457	-.0118499	.0053329
timew1w3w4	0	(omitted)				
invmillsCES	.0002357	.0007237	0.33	0.745	-.0011827	.001654
c.timew1w3w4#c.invmillsCES	-8.71e-06	.0000783	-0.11	0.911	-.0001622	.0001448
timew1w3w4	0	(omitted)				
1.w1smoke	.0169643	.0178796	0.95	0.344	-.0182481	.0521766
w1smoke#c.timew1w3w4						
1	.0013089	.0021811	0.60	0.548	-.0029667	.0055846
timew1w3w4	0	(omitted)				
1.w1currdrugs	.0204664	.0228021	0.90	0.372	-.0249426	.0658754
w1currdrugs#c.timew1w3w4						
1	-.0006545	.0026016	-0.25	0.801	-.0057554	.0044465
timew1w3w4	0	(omitted)				
w1hei2010_total_scorecent43	-.0012978	.0007239	-1.79	0.078	-.0027484	.0001528
c.timew1w3w4#c.w1hei2010_total_scorecent43	-.0000714	.0000897	-0.80	0.427	-.0002475	.0001048
timew1w3w4	0	(omitted)				
w1BMIcent30	.0007006	.0011258	0.62	0.534	-.0015061	.0029074
c.timew1w3w4#c.w1BMIcent30	-.0000698	.0001306	-0.53	0.593	-.0003258	.0001862
_cons	2.003398	.0384074	52.16	0.000	1.927944	2.078851

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0042676	.	.	.
sd(_cons)	.2409668	.0074469	.2268044	.2560136
corr(timew1w3w4,_cons)	.6975758	.9665146	-.9930253	.9997779
sd(Residual)	.1993041	.0036512	.1922748	.2065904

```
41 .
42 .
43 . mi estimate: mixed LnHCys c.timew1w3w4##c.w1ANXIETY_ORD c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c.timew1w
> c.timew1w3w4##w1smoke  c.timew1w3w4##w1currdrugs c.timew1w3w4##c.w1hei2010_total_scorecent43 ///
> c.timew1w3w4##c.w1BMIcent30 ///
> if sample4obs==1 || HNDID: timew1w3w4, cov(un)

Multiple-imputation estimates                  Imputations       =            5
Mixed-effects ML regression                    Number of obs     =        3,259
```

Group variable: **HNDID**	Number of groups	=	**1,181**
	Obs per group:		
	min	=	**1**
	avg	=	**2.8**
	max	=	**3**
	Average RVI	=	**0.0338**
	Largest FMI	=	**0.2633**
DF adjustment: **Large sample**	DF: min	=	**68.27**
	avg	=	**1.37e+07**
	max	=	**3.37e+08**
Model F test: **Equal FMI**	F(25,62409.2)	=	**21.28**
	Prob > F	=	**0.0000**

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0189532	.0052655	3.60	0.000	.0086324	.029274
w1ANXIETY_ORD	.0031891	.002955	1.08	0.280	-.0026027	.0089808
c.timew1w3w4#c.w1ANXIETY_ORD	.0002875	.0003382	0.85	0.395	-.0003754	.0009503
timew1w3w4	0	(omitted)				
w1Agecent48	.0082507	.0009997	8.25	0.000	.0062913	.0102101
c.timew1w3w4#c.w1Agecent48	.0000593	.0001148	0.52	0.605	-.0001657	.0002843
timew1w3w4	0	(omitted)				
Sex						
Men	.1843835	.0186682	9.88	0.000	.1477942	.2209729
Sex#c.timew1w3w4						
Men	-.0035777	.0021119	-1.69	0.090	-.0077169	.0005615
timew1w3w4	0	(omitted)				
Race						
AfrAm	.0043504	.0184841	0.24	0.814	-.0318781	.0405788
Race#c.timew1w3w4						
AfrAm	.0023985	.002138	1.12	0.262	-.0017919	.006589
timew1w3w4	0	(omitted)				
PovStat						
Below	.0127282	.0195815	0.65	0.516	-.0256508	.0511071
PovStat#c.timew1w3w4						
Below	.0010278	.0022398	0.46	0.646	-.0033621	.0054176
timew1w3w4	0	(omitted)				
w1edubr						
2	.0473954	.0417805	1.13	0.257	-.0345966	.1293875
3	.0341093	.0426707	0.80	0.424	-.0495457	.1177643
w1edubr#c.timew1w3w4						
2	.0004688	.0048494	0.10	0.923	-.0090362	.0099738
3	-.0042106	.0050423	-0.84	0.404	-.0140935	.0056724
timew1w3w4	0	(omitted)				
invmillsCES	.0000993	.0007596	0.13	0.896	-.0013895	.0015881

c.timew1w3w4#c.invmillsCES	3.06e-06	.0000811	0.04	0.970	-.0001559	.000162
timew1w3w4	0	(omitted)				
1.w1smoke	.0250053	.0198863	1.26	0.210	-.0141496	.0641603
w1smoke#c.timew1w3w4						
1	-.0000802	.0023906	-0.03	0.973	-.0047658	.0046053
timew1w3w4	0	(omitted)				
1.w1currdrugs	.0182265	.0242209	0.75	0.453	-.0296387	.0660917
w1currdrugs#c.timew1w3w4						
1	-.0020182	.0028793	-0.70	0.483	-.007667	.0036305
timew1w3w4	0	(omitted)				
w1hei2010_total_scorecent43	-.001423	.0008058	-1.77	0.082	-.0030308	.0001847
c.timew1w3w4#c.w1hei2010_total_scorecent43	-.0000136	.0001054	-0.13	0.898	-.0002226	.0001954
timew1w3w4	0	(omitted)				
w1BMIcent30	.0012206	.0012773	0.96	0.339	-.0012829	.0037242
c.timew1w3w4#c.w1BMIcent30	-.0000741	.0001472	-0.50	0.615	-.0003626	.0002145
_cons	2.007108	.0446351	44.97	0.000	1.919546	2.094669

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0053898	.0056776	.0006838	.0424846
sd(_cons)	.2427378	.0084002	.2268196	.2597732
corr(timew1w3w4,_cons)	.4294682	.7002814	-.8407397	.9728099
sd(Residual)	.1997185	.00425	.1915599	.2082245

```
44 .
45 .
46 . mi estimate: mixed LnHCys c.timew1w3w4##c.zR_traj_ProbG2ANXIETY c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c
> c.timew1w3w4##w1smoke  c.timew1w3w4##w1currdrugs c.timew1w3w4##c.w1hei2010_total_scorecent43 ///
> c.timew1w3w4##c.w1BMIcent30 ///
> if sample4obs==1 || HNDID: timew1w3w4, cov(un)
```

Multiple-imputation estimates		Imputations	=	5
Mixed-effects ML regression		Number of obs	=	3,847
Group variable: **HNDID**		Number of groups	=	1,383
		Obs per group:		
		min =		1
		avg =		2.8
		max =		3
		Average RVI	=	0.0411
		Largest FMI	=	0.3182
DF adjustment: **Large sample**		DF: min	=	47.54
		avg	=	4.79e+07
		max	=	1.21e+09
Model F test: **Equal FMI**		F(25,42884.0)	=	24.98
		Prob > F	=	0.0000

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0195112	.00457	4.27	0.000	.0105526	.0284699
zR_traj_ProbG2ANXIETY	-.0012351	.0086021	-0.14	0.886	-.0180948	.0156247
c.timew1w3w4#c.zR_traj_ProbG2ANXIETY	.0015677	.0009745	1.61	0.108	-.0003424	.0034778
timew1w3w4	0	(omitted)				
w1Agecent48	.0080462	.0009226	8.72	0.000	.0062379	.0098544
c.timew1w3w4#c.w1Agecent48	.0000234	.0001052	0.22	0.824	-.0001828	.0002296
timew1w3w4	0	(omitted)				
Sex						
Men	.1902925	.0172257	11.05	0.000	.1565301	.2240548
Sex#c.timew1w3w4						
Men	-.0043898	.001933	-2.27	0.023	-.0081785	-.0006012
timew1w3w4	0	(omitted)				
Race						
AfrAm	.0044065	.0170293	0.26	0.796	-.0289706	.0377835
Race#c.timew1w3w4						
AfrAm	.0018509	.0019508	0.95	0.343	-.0019726	.0056744
timew1w3w4	0	(omitted)				
PovStat						
Below	.011467	.0180583	0.63	0.525	-.0239267	.0468606
PovStat#c.timew1w3w4						
Below	.000774	.0020447	0.38	0.705	-.0032336	.0047816
timew1w3w4	0	(omitted)				
w1edubr						
2	.027463	.0370797	0.74	0.459	-.0453056	.1002316
3	.0206086	.0382725	0.54	0.590	-.054435	.0956522
w1edubr#c.timew1w3w4						
2	.0010118	.0042935	0.24	0.814	-.0074043	.0094279
3	-.002908	.0044991	-0.65	0.518	-.0117271	.005911
timew1w3w4	0	(omitted)				
invmillsCES	.000263	.0007303	0.36	0.719	-.0011684	.0016944
c.timew1w3w4#c.invmillsCES	-3.00e-06	.0000783	-0.04	0.969	-.0001565	.0001505
timew1w3w4	0	(omitted)				
1.w1smoke	.0190323	.0184656	1.03	0.304	-.0173376	.0554022
w1smoke#c.timew1w3w4						
1	.0005388	.0022117	0.24	0.808	-.0037966	.0048742
timew1w3w4	0	(omitted)				
1.w1currdrugs	.017282	.0233885	0.74	0.462	-.0292931	.0638572
w1currdrugs#c.timew1w3w4						
1	-.0013196	.0026207	-0.50	0.615	-.0064578	.0038187

timew1w3w4	0	(omitted)				
w1hei2010_total_scorecent43	-.0014012	.0007591	-1.85	0.071	-.0029278	.0001254
c.timew1w3w4#c.w1hei2010_total_scorecent43	-.0000643	.0000916	-0.70	0.483	-.0002443	.0001156
timew1w3w4	0	(omitted)				
w1BMIcent30	.0007374	.0011594	0.64	0.525	-.0015351	.00301
c.timew1w3w4#c.w1BMIcent30	-.0000675	.0001322	-0.51	0.609	-.0003265	.0001915
_cons	2.03143	.0387451	52.43	0.000	1.955409	2.107452

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0057187	.0048735	.0010762	.0303883
sd(_cons)	.2444918	.0076982	.2298597	.2600552
corr(timew1w3w4,_cons)	.3035566	.4774778	-.6152963	.8726929
sd(Residual)	.197675	.0038481	.1902748	.2053629

```
47 .
48 . mi estimate: mixed LnHCys c.timew1w3w4##c.w1AnxietyDisorder c.timew1w3w4##c.w1Agecent48 c.timew1w3w4##Sex c.tim
 > c.timew1w3w4##w1smoke  c.timew1w3w4##w1currdrugs c.timew1w3w4##c.w1hei2010_total_scorecent43 ///
 > c.timew1w3w4##c.w1BMIcent30 ///
 > if sample4obs==1 || HNDID: timew1w3w4, cov(un)
```

Multiple-imputation estimates	Imputations	=	5
Mixed-effects ML regression	Number of obs	=	3,705
Group variable: **HNDID**	Number of groups	=	1,346

	Obs per group:		
	min =		1
	avg =		2.8
	max =		3
	Average RVI	=	.
	Largest FMI	=	.
DF adjustment: **Large sample**	DF: min	=	0.00
	avg	=	.
	max	=	.
Model F test: **Equal FMI**	F(25,87207.5)	=	25.27
	Prob > F	=	0.0000

LnHCys	Coefficient	Std. err.	t	P>|t|	[95% conf. interval]	
timew1w3w4	.0161418	.0061384	2.63	0.009	.0041057	.028178
w1AnxietyDisorder	-.0140712	.0280481	-0.50	0.616	-.0690445	.0409021
c.timew1w3w4#c.w1AnxietyDisorder	.0031178	.0034729	0.90	0.369	-.003689	.0099245
timew1w3w4	0	(omitted)				
w1Agecent48	.0086318	.000951	9.08	0.000	.0067678	.0104957
c.timew1w3w4#c.w1Agecent48	-.0000403	.0001108	-0.36	0.716	-.0002574	.0001768
timew1w3w4	0	(omitted)				
Sex						

Men	.198816	.0175561	11.32	0.000	.1644065	.2332255
Sex#c.timew1w3w4						
Men	-.0044415	.002002	-2.22	0.027	-.0083652	-.0005177
timew1w3w4	0	(omitted)				
Race						
AfrAm	.008117	.0175494	0.46	0.644	-.0262792	.0425133
Race#c.timew1w3w4						
AfrAm	.0017135	.0020504	0.84	0.403	-.0023052	.0057321
timew1w3w4	0	(omitted)				
PovStat						
Below	.0108057	.0184427	0.59	0.558	-.0253415	.0469529
PovStat#c.timew1w3w4						
Below	.0013709	.0021096	0.65	0.516	-.0027637	.0055056
timew1w3w4	0	(omitted)				
w1edubr						
2	.0130776	.0372132	0.35	0.725	-.0600197	.086175
3	.0136715	.038479	0.36	0.722	-.0618235	.0891665
w1edubr#c.timew1w3w4						
2	.0012519	.004404	0.28	0.776	-.0073836	.0098874
3	-.0033383	.0046338	-0.72	0.471	-.0124259	.0057492
timew1w3w4	0	(omitted)				
invmillsCES	.0002609	.0007389	0.35	0.724	-.0011872	.001709
c.timew1w3w4#c.invmillsCES	-.0000124	.0000794	-0.16	0.876	-.000168	.0001431
timew1w3w4	0	(omitted)				
1.w1smoke	.0218267	.0192966	1.13	0.258	-.0160149	.0596684
w1smoke#c.timew1w3w4						
1	.0013536	.0022886	0.59	0.554	-.0031326	.0058398
timew1w3w4	0	(omitted)				
1.w1currdrugs	.0280003	.0226288	1.24	0.216	-.0163714	.0723719
w1currdrugs#c.timew1w3w4						
1	-.0012948	.0027252	-0.48	0.635	-.0066393	.0040497
timew1w3w4	0	(omitted)				
w1hei2010_total_scorecent43	-.0016569	.0007462	-2.22	0.029	-.003141	-.0001728
c.timew1w3w4#c.w1hei2010_total_scorecent43	-.0000561	.0000964	-0.58	0.561	-.0002457	.0001335
timew1w3w4	0	(omitted)				
w1BMIcent30	.0009207	.0012141	0.76	0.448	-.0014588	.0033003
c.timew1w3w4#c.w1BMIcent30	-.0000465	.0001398	-0.33	0.739	-.0003206	.0002275
_cons	2.047282	.0513042	39.90	0.000	1.946631	2.147934

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0036536	.0066835	.0001013	.1317767
sd(_cons)	.2463462	.	.	.
corr(timew1w3w4,_cons)	.9934795	.0794804	-1	1
sd(Residual)	.2021469	.0038602	.1947208	.2098562

```
49 .
50 .
51 .
52 . capture log close
```