



```
1 .
2 . cd "E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\HANDLS_PAPER64_HCYDEPANXIETY_LONG\DATA"
   E:\16GBBACKUPUSB\BACKUP_USB_SEPTEMBER2014\May Baydoun_folder\HANDLS_PAPER64_HCYDEPANXIETY_LONG\DATA
3 .
4 .
5 .
6 . //STEP 0: CREATE ANXIETY SCORE LONGITUDINAL AND CHECK ALL VARIABLES IN THE WAVES 1, 3 AND 4 DATASETS//
7 .
8 . use 2023-09-28_anx,clear
9 . capture rename HNDID HNDID
10 . capture rename HNDWAVE HNDwave
11 . save, replace
    file 2023-09-28_anx.dta saved
12 .
13 .
14 . capture drop ga0* ga10* anxd*
15 . decode PDSQga01, generate(ga01)
16 . decode PDSQga02, generate(ga02)
17 . decode PDSQga03, generate(ga03)
18 . decode PDSQga04, generate(ga04)
19 . decode PDSQga05, generate(ga05)
20 . decode PDSQga06, generate(ga06)
21 . decode PDSQga07, generate(ga07)
22 . decode PDSQga08, generate(ga08)
23 . decode PDSQga09, generate(ga09)
24 . decode PDSQga10, generate(ga10)
25 . decode AnxietyDisorder, generate(anxd)
26 .
27 .
28 . replace ga01 = "0" if ga01 == "No"
    (3,513 real changes made)
29 . replace ga01 = "1" if ga01 == "Yes"
    (608 real changes made)
```

```
30 .
31 . replace ga02 = "0" if ga02 == "No"
    (3,160 real changes made)

32 . replace ga02 = "1" if ga02 == "Yes"
    (957 real changes made)

33 .
34 . replace ga03 = "0" if ga03 == "No"
    (3,267 real changes made)

35 . replace ga03 = "1" if ga03 == "Yes"
    (847 real changes made)

36 .
37 . replace ga04 = "0" if ga04 == "No"
    (3,048 real changes made)

38 . replace ga04 = "1" if ga04 == "Yes"
    (1,066 real changes made)

39 .
40 . replace ga05 = "0" if ga05 == "No"
    (2,775 real changes made)

41 . replace ga05 = "1" if ga05 == "Yes"
    (1,338 real changes made)

42 .
43 . replace ga06 = "0" if ga06 == "No"
    (2,684 real changes made)

44 . replace ga06 = "1" if ga06 == "Yes"
    (1,426 real changes made)

45 .
46 . replace ga07 = "0" if ga07 == "No"
    (2,621 real changes made)

47 . replace ga07 = "1" if ga07 == "Yes"
    (1,488 real changes made)

48 .
49 . replace ga08 = "0" if ga08 == "No"
    (2,765 real changes made)

50 . replace ga08 = "1" if ga08 == "Yes"
    (1,344 real changes made)

51 .
52 . replace ga09 = "0" if ga09 == "No"
    (2,716 real changes made)
```

```
53 . replace ga09 = "1" if ga09 == "Yes"
    (1,392 real changes made)

54 .
55 . replace ga10 = "0" if ga10 == "No"
    (3,069 real changes made)

56 . replace ga10 = "1" if ga10 == "Yes"
    (1,036 real changes made)

57 .
58 . replace anxd = "0" if anxd == "No"
    (5,764 real changes made)

59 . replace anxd = "1" if anxd == "Yes"
    (1,307 real changes made)

60 .
61 .
62 . encode ga01, generate(ga01_n)

63 . encode ga02, generate(ga02_n)

64 . encode ga03, generate(ga03_n)

65 . encode ga04, generate(ga04_n)

66 . encode ga05, generate(ga05_n)

67 . encode ga06, generate(ga06_n)

68 . encode ga07, generate(ga07_n)

69 . encode ga08, generate(ga08_n)

70 . encode ga09, generate(ga09_n)

71 . encode ga10, generate(ga10_n)

72 . encode anxd, generate(anxd_n)

73 .
74 . capture drop ANXIETY

75 . gen ANXIETY=ga01_n+ga02_n+ga03_n+ga04_n+ga05_n+ga06_n+ga07_n+ga08_n+ga09_n+ga10_n
    (4,254 missing values generated)

76 . replace ANXIETY=ANXIETY
    (0 real changes made)

77 .
```

```

78 .
79 . save, replace
    file 2023-09-28_anx.dta saved

80 .
81 . *****
82 . use 2023-09-28_anx,clear

83 . keep if HNDwave==1
    (4,639 observations deleted)

84 . save 2023-09-28_anx_wave1, replace
    file 2023-09-28_anx_wave1.dta saved

85 . capture rename HNDID HNDID

86 . save, replace
    file 2023-09-28_anx_wave1.dta saved

87 .
88 .
89 . use 2023-09-28_anx,clear

90 . keep if HNDwave==3
    (5,891 observations deleted)

91 . capture rename HNDID HNDID

92 . save 2023-09-28_anx_wave3, replace
    file 2023-09-28_anx_wave3.dta saved

93 .
94 .
95 . use 2023-09-28_anx,clear

96 . keep if HNDwave==4
    (6,188 observations deleted)

97 . capture rename HNDID HNDID

98 . save 2023-09-28_anx_wave4, replace
    file 2023-09-28_anx_wave4.dta saved

99 .
100 . use 2023-09-28_anx_wave1,clear

101 .
102 .
103 . describe

```

Contains data from **2023-09-28_anx_wave1.dta**

Observations: **3,720**

Variables: **74**

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Variable name	Storage type	Display format	Value label	Variable label
rownames	int	%8.0g		
HNDID	double	%12.0g		
HNDwave	byte	%8.0g		
Sex	byte	%8.0g	Sex	
Race	byte	%8.0g	Race	
PovStat	byte	%8.0g	PovStat	

EducationYr	byte	%8.0g	
Age	double	%12.0g	
SF01	byte	%8.0g	SF01
HCys	double	%12.0g	
Employment01	byte	%8.0g	Employment01
PDSQga01	byte	%8.0g	PDSQga01
PDSQga02	byte	%8.0g	PDSQga02
PDSQga03	byte	%8.0g	PDSQga03
PDSQga04	byte	%8.0g	PDSQga04
PDSQga05	byte	%8.0g	PDSQga05
PDSQga06	byte	%8.0g	PDSQga06
PDSQga07	byte	%8.0g	PDSQga07
PDSQga08	byte	%8.0g	PDSQga08
PDSQga09	byte	%8.0g	PDSQga09
PDSQga10	byte	%8.0g	PDSQga10
CigaretteStatus	byte	%8.0g	CigaretteStatus
AlcStatus	byte	%8.0g	AlcStatus
MarijCurr	byte	%8.0g	MarijCurr
CokeCurr	byte	%8.0g	CokeCurr
OpiateCurr	byte	%8.0g	OpiateCurr
CVhighChol	byte	%8.0g	CVhighChol
CVaFib	byte	%8.0g	CVaFib
CVangina	byte	%8.0g	CVangina
CVcad	byte	%8.0g	CVcad
CVchf	byte	%8.0g	CVchf
CVmi	byte	%8.0g	CVmi
AnxietyDisorder	byte	%8.0g	AnxietyDisorder
BPsitRsys	int	%8.0g	
BPsitRdia	int	%8.0g	
BPsitLsys	int	%8.0g	
BPsitLdia	int	%8.0g	
BMI	double	%12.0g	
dxHTN	byte	%8.0g	dxHTN
dxDiabetes	byte	%8.0g	dxDiabetes
hei2010_total~e	double	%12.0g	
CES	byte	%8.0g	
CES_DA	byte	%8.0g	
CES_IP	byte	%8.0g	
CES_SC	byte	%8.0g	
CES_WB	byte	%8.0g	
Chol	int	%8.0g	
HDL	int	%8.0g	
HgbA1C	double	%12.0g	
Albumin	double	%12.0g	
CRP	double	%12.0g	
ga01	str3	%9s	
ga02	str3	%9s	
ga03	str3	%9s	
ga04	str3	%9s	
ga05	str3	%9s	
ga06	str3	%9s	
ga07	str3	%9s	
ga08	str3	%9s	
ga09	str3	%9s	
ga10	str3	%9s	

```

anxd          str3      %9s
ga01_n        long      %8.0g      ga01_n
ga02_n        long      %8.0g      ga02_n
ga03_n        long      %8.0g      ga03_n
ga04_n        long      %8.0g      ga04_n
ga05_n        long      %8.0g      ga05_n
ga06_n        long      %8.0g      ga06_n
ga07_n        long      %8.0g      ga07_n
ga08_n        long      %8.0g      ga08_n
ga09_n        long      %8.0g      ga09_n
ga10_n        long      %8.0g      ga10_n
anxd_n        long      %8.0g      anxd_n
ANXIETY       float     %9.0g

```

Sorted by: HNDID

104 . su

Variable	Obs	Mean	Std. dev.	Min	Max
rownames	3,720	4173.255	2398.332	1	8358
HNDID	3,720	8.16e+09	4.20e+07	8.03e+09	8.22e+09
HNDwave	3,720	1	0	1	1
Sex	3,720	1.452957	.497849	1	2
Race	3,720	1.59086	.4917412	1	2
PovStat	3,720	1.412634	.4923743	1	2
EducationYr	3,646	12.05129	2.543741	1	20
Age	3,720	48.26927	9.357168	29.8	66.2
SF01	3,717	3.08071	.9902358	1	5
HCys	1,460	9.176575	5.219708	2.88	112.59
Employment01	3,628	1.432194	.4954493	1	2
PDSQga01	2,228	1.138689	.3456997	1	2
PDSQga02	2,227	1.260889	.4392182	1	2
PDSQga03	2,227	1.233049	.4228681	1	2
PDSQga04	2,227	1.271217	.4446876	1	2
PDSQga05	2,227	1.351145	.4774354	1	2
PDSQga06	2,225	1.377079	.4847638	1	2
PDSQga07	2,225	1.374831	.4841882	1	2
PDSQga08	2,225	1.363596	.4811422	1	2
PDSQga09	2,225	1.349213	.4768287	1	2
PDSQga10	2,225	1.26382	.440802	1	2
CigaretteS~s	2,585	2.958607	1.202193	1	4
AlcStatus	2,581	3.321193	.9529088	1	4
MarijCurr	2,579	1.863513	.3433716	1	2
CokeCurr	2,591	1.93902	.2393404	1	2
OpiateCurr	2,509	1.963332	.1879828	1	2
CVhighChol	2,497	1.271526	.4448357	1	2
CVaFib	2,504	1.079073	.2699073	1	2
CVangina	2,504	1.093051	.2905621	1	2
CVcad	2,505	1.038723	.1929715	1	2
CVchf	2,505	1.028743	.1671153	1	2
CVmi	2,503	1.036756	.1881995	1	2
AnxietyDis~r	2,630	1.129658	.3359904	1	2
BPsitRsys	2,766	121.1312	18.03847	80	194
BPsitRdia	2,765	73.00434	11.44163	40	144
BPsitLsys	2,740	120.1639	18.14553	76	217

BPsitLdia	2,733	73.10392	11.247	37	158
BMI	2,853	30.0263	7.921048	14.35524	70.069
dxHTN	2,750	1.467273	.4990185	1	2
dxDiabetes	2,756	1.526488	.7736745	1	3
hei2010_to~e	2,177	42.59318	11.48268	12.62117	89.42492
CES	2,736	15.16301	11.44406	0	59
CES_DA	2,794	4.651038	5.014007	0	21
CES_IP	2,794	1.012527	1.3815	0	6
CES_SC	2,794	6.740157	4.480029	0	21
CES_WB	2,794	9.306371	2.96825	0	12
Chol	2,752	187.0883	43.35285	68	651
HDL	2,751	52.74264	17.28135	11	175
HgbA1C	2,754	6.008642	1.31885	3.2	17.5
Albumin	2,753	4.270432	.343827	2.2	5.3
CRP	2,646	5.036731	10.10386	.005	163
ga01	0				
ga02	0				
ga03	0				
ga04	0				
ga05	0				
ga06	0				
ga07	0				
ga08	0				
ga09	0				
ga10	0				
anxd	0				
ga01_n	2,228	1.138689	.3456997	1	2
ga02_n	2,227	1.260889	.4392182	1	2
ga03_n	2,227	1.233049	.4228681	1	2
ga04_n	2,227	1.271217	.4446876	1	2
ga05_n	2,227	1.351145	.4774354	1	2
ga06_n	2,225	1.377079	.4847638	1	2
ga07_n	2,225	1.374831	.4841882	1	2
ga08_n	2,225	1.363596	.4811422	1	2
ga09_n	2,225	1.349213	.4768287	1	2
ga10_n	2,225	1.26382	.440802	1	2
anxd_n	2,630	1.129658	.3359904	1	2
ANXIETY	2,225	12.98247	3.224116	10	20

105 .

106 .

107 .

108 . use 2023-09-28_anx_wave3,clear

109 .

110 . describe

Contains data from 2023-09-28_anx_wave3.dta

Observations: 2,468

Variables: 74

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Variable name	Storage type	Display format	Value label	Variable label
rownames	int	%8.0g		
HNDID	double	%12.0g		
HNDwave	byte	%8.0g		
Sex	byte	%8.0g	Sex	
Race	byte	%8.0g	Race	
PovStat	byte	%8.0g	PovStat	
EducationYr	byte	%8.0g		
Age	double	%12.0g		
SF01	byte	%8.0g	SF01	
HCys	double	%12.0g		
Employment01	byte	%8.0g	Employment01	
PDSQga01	byte	%8.0g	PDSQga01	
PDSQga02	byte	%8.0g	PDSQga02	
PDSQga03	byte	%8.0g	PDSQga03	
PDSQga04	byte	%8.0g	PDSQga04	
PDSQga05	byte	%8.0g	PDSQga05	
PDSQga06	byte	%8.0g	PDSQga06	
PDSQga07	byte	%8.0g	PDSQga07	
PDSQga08	byte	%8.0g	PDSQga08	
PDSQga09	byte	%8.0g	PDSQga09	
PDSQga10	byte	%8.0g	PDSQga10	
CigaretteStatus	byte	%8.0g	CigaretteStatus	
AlcStatus	byte	%8.0g	AlcStatus	
MarijCurr	byte	%8.0g	MarijCurr	
CokeCurr	byte	%8.0g	CokeCurr	
OpiateCurr	byte	%8.0g	OpiateCurr	
CVhighChol	byte	%8.0g	CVhighChol	
CVaFib	byte	%8.0g	CVaFib	
CVangina	byte	%8.0g	CVangina	
CVcad	byte	%8.0g	CVcad	
CVchf	byte	%8.0g	CVchf	
CVmi	byte	%8.0g	CVmi	
AnxietyDisorder	byte	%8.0g	AnxietyDisorder	
BPsitRsys	int	%8.0g		
BPsitRdia	int	%8.0g		
BPsitLsys	int	%8.0g		
BPsitLdia	int	%8.0g		
BMI	double	%12.0g		
dxHTN	byte	%8.0g	dxHTN	
dxDiabetes	byte	%8.0g	dxDiabetes	
hei2010_total~e	double	%12.0g		
CES	byte	%8.0g		
CES_DA	byte	%8.0g		
CES_IP	byte	%8.0g		
CES_SC	byte	%8.0g		

CES_WB	byte	%8.0g	
Chol	int	%8.0g	
HDL	int	%8.0g	
HgbA1C	double	%12.0g	
Albumin	double	%12.0g	
CRP	double	%12.0g	
ga01	str3	%9s	
ga02	str3	%9s	
ga03	str3	%9s	
ga04	str3	%9s	
ga05	str3	%9s	
ga06	str3	%9s	
ga07	str3	%9s	
ga08	str3	%9s	
ga09	str3	%9s	
ga10	str3	%9s	
anxd	str3	%9s	
ga01_n	long	%8.0g	ga01_n
ga02_n	long	%8.0g	ga02_n
ga03_n	long	%8.0g	ga03_n
ga04_n	long	%8.0g	ga04_n
ga05_n	long	%8.0g	ga05_n
ga06_n	long	%8.0g	ga06_n
ga07_n	long	%8.0g	ga07_n
ga08_n	long	%8.0g	ga08_n
ga09_n	long	%8.0g	ga09_n
ga10_n	long	%8.0g	ga10_n
anxd_n	long	%8.0g	anxd_n
ANXIETY	float	%9.0g	

Sorted by: HNDID

111 . su

Variable	Obs	Mean	Std. dev.	Min	Max
rownames	2,468	4188.203	2448.433	4	8359
HNDID	2,468	8.16e+09	4.33e+07	8.03e+09	8.22e+09
HNDwave	2,468	3	0	3	3
Sex	2,468	1.422609	.4940745	1	2
Race	2,468	1.616694	.4862905	1	2
PovStat	2,468	1.404781	.4909491	1	2
EducationYr	2,433	12.18496	2.579873	1	20
Age	2,468	52.97776	9.033023	32.9	73
SF01	1,760	3.114773	.9365353	1	5
HCys	1,486	10.40221	10.36594	3.87	303.93
Employment01	0				
PDSQga01	0				
PDSQga02	0				
PDSQga03	0				
PDSQga04	0				
PDSQga05	0				
PDSQga06	0				
PDSQga07	0				
PDSQga08	0				
PDSQga09	0				
PDSQga10	0				
CigaretteS~s	2,103	2.911555	1.127789	1	4
AlcStatus	2,134	3.31537	.87919	1	4

MarijCurr	1,990	1.882412	.3222005	1	2
CokeCurr	1,942	1.969104	.1730805	1	2
OpiateCurr	1,877	1.973362	.1610667	1	2
CVhighChol	2,285	1.363239	.481038	1	2
CVaFib	2,285	1.089716	.2858363	1	2
CVangina	2,285	1.100656	.3009391	1	2
CVcad	2,285	1.042888	.2026498	1	2
CVchf	2,285	1.034573	.1827364	1	2
CVmi	2,285	1.039387	.1945572	1	2
AnxietyDis~r	2,290	1.177729	.3823682	1	2
BPsitRsys	2,263	122.9585	18.23062	76	220
BPsitRdia	2,262	70.58267	10.04919	40	120
BPsitLsys	2,250	122.2787	17.98661	76	216
BPsitLdia	2,246	71.32502	10.32727	40	116
BMI	2,291	30.63998	7.955704	12.3	88
dxHTN	2,293	1.580898	.4935197	1	2
dxDiabetes	2,314	1.589023	.8128245	1	3
hei2010_to~e	2,140	46.2576	12.05283	16.62035	98.33624
CES	2,254	15.81233	11.65942	0	56
CES_DA	2,290	4.859389	5.135249	0	21
CES_IP	2,290	1.095197	1.450998	0	6
CES_SC	2,290	7.213537	4.4828	0	21
CES_WB	2,290	9.379476	2.830684	0	12
Chol	2,269	187.4606	41.57405	78	414
HDL	2,268	56.65785	18.58656	19	176
HgbA1C	2,265	6.036865	1.241404	3.8	16.2
Albumin	2,270	4.333789	.3233109	2.6	5.4
CRP	2,216	7.889009	29.71592	.0167696	1277.805
ga01	0				
ga02	0				
ga03	0				
ga04	0				
ga05	0				
ga06	0				
ga07	0				
ga08	0				
ga09	0				
ga10	0				
anxd	0				
ga01_n	0				
ga02_n	0				
ga03_n	0				
ga04_n	0				
ga05_n	0				
ga06_n	0				
ga07_n	0				
ga08_n	0				
ga09_n	0				
ga10_n	0				
anxd_n	2,290	1.177729	.3823682	1	2
ANXIETY	0				

```

112 .
113 .
114 . use 2023-09-28_anx_wave4,clear

115 .
116 . describe

```

Contains data from **2023-09-28_anx_wave4.dta**

Observations: **2,171**

Variables: **74**

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Variable name	Storage type	Display format	Value label	Variable label
rownames	int	%8.0g		
HNDID	double	%12.0g		
HNDwave	byte	%8.0g		
Sex	byte	%8.0g	Sex	
Race	byte	%8.0g	Race	
PovStat	byte	%8.0g	PovStat	
EducationYr	byte	%8.0g		
Age	double	%12.0g		
SF01	byte	%8.0g	SF01	
HCys	double	%12.0g		
Employment01	byte	%8.0g	Employment01	
PDSQga01	byte	%8.0g	PDSQga01	
PDSQga02	byte	%8.0g	PDSQga02	
PDSQga03	byte	%8.0g	PDSQga03	
PDSQga04	byte	%8.0g	PDSQga04	
PDSQga05	byte	%8.0g	PDSQga05	
PDSQga06	byte	%8.0g	PDSQga06	
PDSQga07	byte	%8.0g	PDSQga07	
PDSQga08	byte	%8.0g	PDSQga08	
PDSQga09	byte	%8.0g	PDSQga09	
PDSQga10	byte	%8.0g	PDSQga10	
CigaretteStatus	byte	%8.0g	CigaretteStatus	
AlcStatus	byte	%8.0g	AlcStatus	
MarijCurr	byte	%8.0g	MarijCurr	
CokeCurr	byte	%8.0g	CokeCurr	
OpiateCurr	byte	%8.0g	OpiateCurr	
CVhighChol	byte	%8.0g	CVhighChol	
CVaFib	byte	%8.0g	CVaFib	
CVangina	byte	%8.0g	CVangina	
CVcad	byte	%8.0g	CVcad	
CVchf	byte	%8.0g	CVchf	
CVmi	byte	%8.0g	CVmi	
AnxietyDisorder	byte	%8.0g	AnxietyDisorder	
BPsitRsys	int	%8.0g		
BPsitRdia	int	%8.0g		
BPsitLsys	int	%8.0g		
BPsitLdia	int	%8.0g		
BMI	double	%12.0g		
dxHTN	byte	%8.0g	dxHTN	
dxDiabetes	byte	%8.0g	dxDiabetes	
hei2010_total~e	double	%12.0g		

CES	byte	%8.0g	
CES_DA	byte	%8.0g	
CES_IP	byte	%8.0g	
CES_SC	byte	%8.0g	
CES_WB	byte	%8.0g	
Chol	int	%8.0g	
HDL	int	%8.0g	
HgbA1C	double	%12.0g	
Albumin	double	%12.0g	
CRP	double	%12.0g	
ga01	str3	%9s	
ga02	str3	%9s	
ga03	str3	%9s	
ga04	str3	%9s	
ga05	str3	%9s	
ga06	str3	%9s	
ga07	str3	%9s	
ga08	str3	%9s	
ga09	str3	%9s	
ga10	str3	%9s	
anxd	str3	%9s	
ga01_n	long	%8.0g	ga01_n
ga02_n	long	%8.0g	ga02_n
ga03_n	long	%8.0g	ga03_n
ga04_n	long	%8.0g	ga04_n
ga05_n	long	%8.0g	ga05_n
ga06_n	long	%8.0g	ga06_n
ga07_n	long	%8.0g	ga07_n
ga08_n	long	%8.0g	ga08_n
ga09_n	long	%8.0g	ga09_n
ga10_n	long	%8.0g	ga10_n
anxd_n	long	%8.0g	anxd_n
ANXIETY	float	%9.0g	

Sorted by: HNDID

117 . su

Variable	Obs	Mean	Std. dev.	Min	Max
rownames	2,171	4182.233	2399.216	5	8357
HNDID	2,171	8.16e+09	4.24e+07	8.03e+09	8.22e+09
HNDwave	2,171	4	0	4	4
Sex	2,171	1.413634	.4925979	1	2
Race	2,171	1.610778	.4876861	1	2
PovStat	2,171	1.405343	.4910714	1	2
EducationYr	2,139	12.15895	2.52434	1	20
Age	2,171	56.60129	9.10942	36.4	76.9
SF01	2,129	3.060592	.930676	1	5
HCys	1,280	10.68614	4.557427	4.18	53.11
Employment01	0				
PDSQga01	1,893	1.15795	.3647908	1	2
PDSQga02	1,890	1.198942	.3993098	1	2
PDSQga03	1,887	1.173821	.3790558	1	2
PDSQga04	1,887	1.244833	.4301022	1	2
PDSQga05	1,886	1.294804	.4560754	1	2
PDSQga06	1,885	1.311406	.4631912	1	2
PDSQga07	1,884	1.347134	.4761851	1	2
PDSQga08	1,884	1.28397	.4510423	1	2
PDSQga09	1,883	1.326606	.4690965	1	2

PDSQga10	1,880	1.23883	.426482	1	2
CigaretteS~s	2,013	2.958768	1.137552	1	4
AlcStatus	2,030	3.298522	.8664082	1	4
MarijCurr	1,900	1.841579	.3652315	1	2
CokeCurr	1,852	1.968683	.1742214	1	2
OpiateCurr	1,804	1.972284	.164204	1	2
CVhighChol	2,107	1.449454	.4975566	1	2
CVaFib	2,107	1.10916	.3119138	1	2
CVangina	2,107	1.113906	.3177725	1	2
CVcad	2,107	1.059801	.2371734	1	2
CVchf	2,107	1.04841	.2146821	1	2
CVmi	2,107	1.05458	.2272125	1	2
AnxietyDis~r	2,151	1.259879	.4386701	1	2
BPsitRsys	2,113	118.6602	17.79255	80	204
BPsitRdia	2,112	65.94934	9.811911	40	118
BPsitLsys	2,115	119.079	17.86099	72	208
BPsitLdia	2,115	67.28747	9.948667	40	120
BMI	2,142	30.86928	7.952211	13.8	76.5
dxHTN	2,153	1.648398	.4775815	1	2
dxDiabetes	2,162	1.650786	.8461863	1	3
hei2010_to~e	2,066	48.68347	12.09708	14.40958	90.44823
CES	2,007	13.79771	10.87457	0	57
CES_DA	2,015	3.893797	4.474094	0	21
CES_IP	2,015	.830273	1.269134	0	6
CES_SC	2,015	5.874442	4.275007	0	21
CES_WB	2,015	8.808437	3.147015	0	12
Chol	2,087	187.966	43.12726	58	409
HDL	2,085	57.31175	19.81095	14	199
HgbA1C	2,075	6.212386	1.351279	3.8	19.4
Albumin	2,086	4.2535	.3457376	2.2	5.4
CRP	2,082	5.310447	9.392764	.15	125
ga01	0				
ga02	0				
ga03	0				
ga04	0				
ga05	0				
ga06	0				
ga07	0				
ga08	0				
ga09	0				
ga10	0				
anxd	0				
ga01_n	1,893	1.15795	.3647908	1	2
ga02_n	1,890	1.198942	.3993098	1	2
ga03_n	1,887	1.173821	.3790558	1	2
ga04_n	1,887	1.244833	.4301022	1	2
ga05_n	1,886	1.294804	.4560754	1	2
ga06_n	1,885	1.311406	.4631912	1	2
ga07_n	1,884	1.347134	.4761851	1	2
ga08_n	1,884	1.28397	.4510423	1	2
ga09_n	1,883	1.326606	.4690965	1	2
ga10_n	1,880	1.23883	.426482	1	2

anxd_n	2,151	1.259879	.4386701	1	2
ANXIETY	1,880	12.58138	3.213161	10	20

```

118 .
119 .
120 .
121 .
122 . //STEP 1: CREATE WAVE 1 DEMOGRAPHIC VARIABLES//
123 .
124 . use 2023-09-28_anx_wave1,clear

125 .
126 . keep HNDID HNDwave Race PovStat Sex Age

127 . capture rename HNDID HNDID

128 . sort HNDID

129 .
130 . save DEMOw1, replace
    file DEMOw1.dta saved

131 .
132 . addstub Race PovStat Sex Age, stub(w1)

133 .
134 . save, replace
    file DEMOw1.dta saved

135 .
136 .
137 . //STEP 2: CREATE DEPRESSIVE SYMPTOMS DATA AT WAVES 1, 3 AND 4, LONG//
138 .
139 . *****DEPRESSIVE SYMPTOMS AND ANXIETY DATA AT WAVE 1**
140 .
141 . use 2023-09-28_anx_wave1,clear

142 . capture rename HNDID HNDID

143 .
144 . keep HNDID HNDwave CES* PDSQ* ANXIETY AnxietyDisorder HCys

145 . sort HNDID

146 .
147 . save DEPRESSIVE_SYMPTOMS_wave1long, replace
    file DEPRESSIVE_SYMPTOMS_wave1long.dta saved

148 .
149 .
150 . *****DEPRESSIVE SYMPTOMS AND ANXIETY DATA AT WAVE 3**

```

```
151 .
152 .
153 . use 2023-09-28_anx_wave3,clear

154 . capture rename HNDID HNDID

155 .
156 .
157 . keep HNDID HNDwave CES* PDSQ* ANXIETY AnxietyDisorder HCys

158 . sort HNDID

159 .
160 . save DEPRESSIVE_SYMPTOMS_wave3long, replace
    file DEPRESSIVE_SYMPTOMS_wave3long.dta saved

161 .
162 .
163 . *****DEPRESSIVE SYMPTOMS AND ANXIETY DATA AT WAVE 4**
164 .
165 .
166 . use 2023-09-28_anx_wave4,clear

167 . capture rename HNDID HNDID

168 .
169 .
170 . keep HNDID HNDwave CES* PDSQ* ANXIETY AnxietyDisorder HCys

171 . sort HNDID

172 .
173 . save DEPRESSIVE_SYMPTOMS_wave4long, replace
    file DEPRESSIVE_SYMPTOMS_wave4long.dta saved

174 .
175 .
176 .
177 .
178 . //STEP 3: CREATE WAVE 1, 3 and 4 DEPRESSIVE SYMPTOMS DATA, WIDE//
179 .
180 .
181 . *****DEPRESSIVE SYMPTOMS AND ANXIETY DATA AT WAVE 1**
182 .
183 . use DEPRESSIVE_SYMPTOMS_wave1long, clear

184 .
185 . keep HNDID CES* PDSQ* ANXIETY AnxietyDisorder

186 .
187 . addstub CES* PDSQ* ANXIETY AnxietyDisorder, stub(w1)
```

```
188 .
189 . save DEPRESSIVE_SYMPTOMSwave1wide, replace
    file DEPRESSIVE_SYMPTOMSwave1wide.dta saved

190 .
191 .
192 .
193 . *****DEPRESSIVE SYMPTOMS AND ANXIETY DATA AT WAVE 3**
194 .
195 . use DEPRESSIVE_SYMPTOMS_wave3long, clear

196 .
197 . keep HNDID CES* PDSQ* ANXIETY AnxietyDisorder

198 .
199 . addstub CES* PDSQ* ANXIETY AnxietyDisorder, stub(w3)

200 .
201 . save DEPRESSIVE_SYMPTOMSwave3wide, replace
    file DEPRESSIVE_SYMPTOMSwave3wide.dta saved

202 .
203 .
204 . *****DEPRESSIVE SYMPTOMS AND ANXIETY DATA AT WAVE 4**
205 .
206 . use DEPRESSIVE_SYMPTOMS_wave4long, clear

207 .
208 . keep HNDID CES* PDSQ* ANXIETY AnxietyDisorder

209 .
210 . addstub CES* PDSQ* ANXIETY AnxietyDisorder, stub(w4)

211 .
212 . save DEPRESSIVE_SYMPTOMSwave4wide, replace
    file DEPRESSIVE_SYMPTOMSwave4wide.dta saved

213 .
214 .
215 .
216 . //STEP 4: MERGE AGEw1 with DEP AND ANXIETY DATA AT WAVE 1//
217 .
218 . use 2023-09-28_anx_wave1,clear

219 . capture rename HNDID HNDID

220 .
221 . keep HNDID Age

222 . sort HNDID
```



```
223 .
224 . save Agew1, replace
    file Agew1.dta saved

225 . capture rename Age w1Age

226 . save, replace
    file Agew1.dta saved

227 .
228 . use DEPRESSIVE_SYMPTOMS_wave1long,clear

229 . merge HNDID using Agew1
    (you are using old merge syntax; see [D] merge for new syntax)

230 .
231 . save DEPRESSIVE_SYMPTOMS_wave1longAgew1, replace
    file DEPRESSIVE_SYMPTOMS_wave1longAgew1.dta saved

232 .
233 .
234 .
235 . //STEP 5: MERGE AGEw3 with DEP AND ANXIETY DATA AT WAVE 3//
236 .
237 .
238 . use 2023-09-28_anx_wave3,clear

239 . capture rename HNDID HNDID

240 .
241 . keep HNDID Age

242 . sort HNDID

243 .
244 . save Agew3, replace
    file Agew3.dta saved

245 . capture rename Age w3Age

246 . save, replace
    file Agew3.dta saved

247 .
248 . use DEPRESSIVE_SYMPTOMS_wave3long,clear

249 . merge HNDID using Agew3
    (you are using old merge syntax; see [D] merge for new syntax)

250 .
251 . save DEPRESSIVE_SYMPTOMS_wave3longAgew3, replace
    file DEPRESSIVE_SYMPTOMS_wave3longAgew3.dta saved
```

```
252 .
253 .
254 .
255 . //STEP 6: MERGE AGEw4 with DEP AND ANXIETY DATA AT WAVE 4//
256 .
257 .
258 . use 2023-09-28_anx_wave4,clear

259 . capture rename HNDID HNDID

260 .
261 . keep HNDID Age

262 . sort HNDID

263 .
264 . save Agew4, replace
    file Agew4.dta saved

265 . capture rename Age w4Age

266 . save, replace
    file Agew4.dta saved

267 .
268 . use DEPRESSIVE_SYMPTOMS_wave4long,clear

269 . merge HNDID using Agew4
    (you are using old merge syntax; see [D] merge for new syntax)

270 .
271 . save DEPRESSIVE_SYMPTOMS_wave4longAgew4, replace
    file DEPRESSIVE_SYMPTOMS_wave4longAgew4.dta saved

272 .
273 .
274 .
275 . //STEP 7: APPEND LONG DEPRESSIVE SYMPTOMS DATA MERGED WITH AGE VARIABLES//
276 .
277 . use DEPRESSIVE_SYMPTOMS_wave1longAgew1, clear

278 .
279 . capture drop _merge

280 .
281 . save, replace
    file DEPRESSIVE_SYMPTOMS_wave1longAgew1.dta saved

282 .
283 .
284 . use DEPRESSIVE_SYMPTOMS_wave3longAgew3, clear
```

```
285 .
286 . capture drop _merge

287 .
288 . save, replace
    file DEPRESSIVE_SYMPTOMS_wave3longAgew3.dta saved

289 .
290 .
291 .
292 . use DEPRESSIVE_SYMPTOMS_wave4longAgew4, clear

293 .
294 . capture drop _merge

295 .
296 . save, replace
    file DEPRESSIVE_SYMPTOMS_wave4longAgew4.dta saved

297 .
298 .
299 . use DEPRESSIVE_SYMPTOMS_wave1longAgew1, clear

300 . append using DEPRESSIVE_SYMPTOMS_wave3longAgew3
    (label AnxietyDisorder already defined)
    (label PDSQga10 already defined)
    (label PDSQga09 already defined)
    (label PDSQga08 already defined)
    (label PDSQga07 already defined)
    (label PDSQga06 already defined)
    (label PDSQga05 already defined)
    (label PDSQga04 already defined)
    (label PDSQga03 already defined)
    (label PDSQga02 already defined)
    (label PDSQga01 already defined)

301 . append using DEPRESSIVE_SYMPTOMS_wave4longAgew4
    (label AnxietyDisorder already defined)
    (label PDSQga10 already defined)
    (label PDSQga09 already defined)
    (label PDSQga08 already defined)
    (label PDSQga07 already defined)
    (label PDSQga06 already defined)
    (label PDSQga05 already defined)
    (label PDSQga04 already defined)
    (label PDSQga03 already defined)
    (label PDSQga02 already defined)
    (label PDSQga01 already defined)

302 .
303 .
```

```
304 . save DEPRESSIVE_SYMPTOMS_waves134_append, replace
    file DEPRESSIVE_SYMPTOMS_waves134_append.dta saved

305 .
306 .
307 .
308 .
309 . keep HNDID HNDwave CES* PDSQ* HCys

310 .
311 . save DEPRESSIVE_SYMPTOMS_waves134_appendsmall, replace
    file DEPRESSIVE_SYMPTOMS_waves134_appendsmall.dta saved

312 .
313 .
314 . //STEP 8: APPEND THE DEPRESSIVE SYMPTOMS (LONG) WITH DEMO AT WAVE 1: CALL THIS LAYER HNDWAVE==0//
315 .
316 . use DEMOw1, clear

317 . recode HNDwave 1=0
    (3,720 changes made to HNDwave)

318 .
319 . save, replace
    file DEMOw1.dta saved

320 .
321 . append using DEPRESSIVE_SYMPTOMS_waves134_appendsmall

322 .
323 . save DEPRESSIVE_SYMPTOMS_waves134_appendsmallDEMOw1long, replace
    file DEPRESSIVE_SYMPTOMS_waves134_appendsmallDEMOw1long.dta saved

324 .
325 . sort HNDID

326 .
327 . save, replace
    file DEPRESSIVE_SYMPTOMS_waves134_appendsmallDEMOw1long.dta saved

328 .
329 . use DEMOw1, clear

330 . sort HNDID

331 . capture drop HNDwave

332 . save DEMOw1wide, replace
    file DEMOw1wide.dta saved

333 .
```

```

334 . use DEPRESSIVE_SYMPTOMS_waves134_appendsmallDEMOw1long,clear

335 . capture drop w1Sex w1Race w1PovStat w1Age

336 .
337 . merge HNDID using DEMOw1wide
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data
    (label PovStat already defined)
    (label Race already defined)
    (label Sex already defined)

338 . save, replace
    file DEPRESSIVE_SYMPTOMS_waves134_appendsmallDEMOw1long.dta saved

339 .
340 . //STEP 9: MERGE WAVE 1 DEP, WIDE WITH THE APPENDED DATA//
341 . use DEPRESSIVE_SYMPTOMS_waves134_appendsmallDEMOw1long,clear

342 . capture drop _merge

343 . sort HNDID

344 . save, replace
    file DEPRESSIVE_SYMPTOMS_waves134_appendsmallDEMOw1long.dta saved

345 .
346 . use DEPRESSIVE_SYMPTOMSwave1wide,clear

347 . sort HNDID

348 . save, replace
    file DEPRESSIVE_SYMPTOMSwave1wide.dta saved

349 .
350 . use DEPRESSIVE_SYMPTOMS_waves134_appendsmallDEMOw1long,clear

351 . merge HNDID using DEPRESSIVE_SYMPTOMSwave1wide
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data
    (label PDSQga10 already defined)
    (label PDSQga09 already defined)
    (label PDSQga08 already defined)
    (label PDSQga07 already defined)
    (label PDSQga06 already defined)
    (label PDSQga05 already defined)
    (label PDSQga04 already defined)
    (label PDSQga03 already defined)
    (label PDSQga02 already defined)
    (label PDSQga01 already defined)

```

```
352 .
353 . tab _merge
```

_merge	Freq.	Percent	Cum.
3	12,079	100.00	100.00
Total	12,079	100.00	

```
354 . capture drop _merge
```

```
355 .
356 . save DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1_APPENDED, replace
file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1_APPENDED.dta saved
```

```
357 .
358 .
359 .
360 . //STEP 9: MERGE WAVE 3 DEP, WIDE WITH THE APPENDED DATA//
361 . use DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1_APPENDED,clear
```

```
362 . capture drop _merge
```

```
363 . sort HNDID
```

```
364 . save, replace
file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1_APPENDED.dta saved
```

```
365 .
366 . use DEPRESSIVE_SYMPTOMSwave3wide,clear
```

```
367 . sort HNDID
```

```
368 . save, replace
file DEPRESSIVE_SYMPTOMSwave3wide.dta saved
```

```
369 .
370 . use DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1_APPENDED,clear
```

```
371 . merge HNDID using DEPRESSIVE_SYMPTOMSwave3wide
(variable HNDID does not uniquely identify observations in the master data)
(label AnxietyDisorder already defined)
(label PDSQga10 already defined)
(label PDSQga09 already defined)
(label PDSQga08 already defined)
(label PDSQga07 already defined)
(label PDSQga06 already defined)
(label PDSQga05 already defined)
(label PDSQga04 already defined)
(label PDSQga03 already defined)
(label PDSQga02 already defined)
(label PDSQga01 already defined)
```

```
372 .
373 . tab _merge
```

_merge	Freq.	Percent	Cum.
1	2,734	22.63	22.63
3	9,345	77.37	100.00
Total	12,079	100.00	

```
374 . capture drop _merge
```

```
375 .
376 . save DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3_APPENDED, replace
file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3_APPENDED.dta saved
```

```
377 .
378 .
379 . //STEP 10: MERGE WAVE 4 DEP, WIDE WITH THE APPENDED DATA//
380 . use DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3_APPENDED,clear
```

```
381 . capture drop _merge
```

```
382 . sort HNDID
```

```
383 . save, replace
file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3_APPENDED.dta saved
```

```
384 .
385 . use DEPRESSIVE_SYMPTOMSwave4wide,clear
```

```
386 . sort HNDID
```

```
387 . save, replace
file DEPRESSIVE_SYMPTOMSwave4wide.dta saved
```

```
388 .
389 . use DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3_APPENDED,clear
```

```
390 . merge HNDID using DEPRESSIVE_SYMPTOMSwave4wide
(variable HNDID does not uniquely identify observations in the master data
(label AnxietyDisorder already defined)
(label PDSQga10 already defined)
(label PDSQga09 already defined)
(label PDSQga08 already defined)
(label PDSQga07 already defined)
(label PDSQga06 already defined)
(label PDSQga05 already defined)
(label PDSQga04 already defined)
(label PDSQga03 already defined)
(label PDSQga02 already defined)
(label PDSQga01 already defined)
```

```
391 .
392 . tab _merge
```

_merge	Freq.	Percent	Cum.
1	3,625	30.01	30.01
3	8,454	69.99	100.00
Total	12,079	100.00	

```
393 . capture drop _merge
```

```
394 .
395 . save DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED, replace
file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED.dta saved
```

```
396 .
397 .
398 . //STEP 11: MERGE THIS FILE WITH WAVE 3 AGE//
399 . use 2023-09-28_anx_wave3,clear
```

```
400 .
401 . describe
```

Contains data from **2023-09-28_anx_wave3.dta**

Observations: **2,468**

Variables: **74**

30 Oct 2023 11:29

Variable name	Storage type	Display format	Value label	Variable label
rownames	int	%8.0g		
HNDID	double	%12.0g		
HNDwave	byte	%8.0g		
Sex	byte	%8.0g	Sex	
Race	byte	%8.0g	Race	
PovStat	byte	%8.0g	PovStat	
EducationYr	byte	%8.0g		
Age	double	%12.0g		
SF01	byte	%8.0g	SF01	
HCys	double	%12.0g		
Employment01	byte	%8.0g	Employment01	
PDSQga01	byte	%8.0g	PDSQga01	
PDSQga02	byte	%8.0g	PDSQga02	
PDSQga03	byte	%8.0g	PDSQga03	
PDSQga04	byte	%8.0g	PDSQga04	
PDSQga05	byte	%8.0g	PDSQga05	
PDSQga06	byte	%8.0g	PDSQga06	
PDSQga07	byte	%8.0g	PDSQga07	
PDSQga08	byte	%8.0g	PDSQga08	
PDSQga09	byte	%8.0g	PDSQga09	
PDSQga10	byte	%8.0g	PDSQga10	
CigaretteStatus	byte	%8.0g	CigaretteStatus	
AlcStatus	byte	%8.0g	AlcStatus	
MarijCurr	byte	%8.0g	MarijCurr	
CokeCurr	byte	%8.0g	CokeCurr	
OpiateCurr	byte	%8.0g	OpiateCurr	
CVhighChol	byte	%8.0g	CVhighChol	

CVaFib	byte	%8.0g	CVaFib
CVangina	byte	%8.0g	CVangina
CVcad	byte	%8.0g	CVcad
CVchf	byte	%8.0g	CVchf
CVmi	byte	%8.0g	CVmi
AnxietyDisorder	byte	%8.0g	AnxietyDisorder
BPsitRsys	int	%8.0g	
BPsitRdia	int	%8.0g	
BPsitLsys	int	%8.0g	
BPsitLdia	int	%8.0g	
BMI	double	%12.0g	
dxHTN	byte	%8.0g	dxHTN
dxDiabetes	byte	%8.0g	dxDiabetes
hei2010_total~e	double	%12.0g	
CES	byte	%8.0g	
CES_DA	byte	%8.0g	
CES_IP	byte	%8.0g	
CES_SC	byte	%8.0g	
CES_WB	byte	%8.0g	
Chol	int	%8.0g	
HDL	int	%8.0g	
HgbA1C	double	%12.0g	
Albumin	double	%12.0g	
CRP	double	%12.0g	
ga01	str3	%9s	
ga02	str3	%9s	
ga03	str3	%9s	
ga04	str3	%9s	
ga05	str3	%9s	
ga06	str3	%9s	
ga07	str3	%9s	
ga08	str3	%9s	
ga09	str3	%9s	
ga10	str3	%9s	
anxd	str3	%9s	
ga01_n	long	%8.0g	ga01_n
ga02_n	long	%8.0g	ga02_n
ga03_n	long	%8.0g	ga03_n
ga04_n	long	%8.0g	ga04_n
ga05_n	long	%8.0g	ga05_n
ga06_n	long	%8.0g	ga06_n
ga07_n	long	%8.0g	ga07_n
ga08_n	long	%8.0g	ga08_n
ga09_n	long	%8.0g	ga09_n
ga10_n	long	%8.0g	ga10_n
anxd_n	long	%8.0g	anxd_n
ANXIETY	float	%9.0g	

Sorted by: HNDID

402 . su

Variable	Obs	Mean	Std. dev.	Min	Max
rownames	2,468	4188.203	2448.433	4	8359
HNDID	2,468	8.16e+09	4.33e+07	8.03e+09	8.22e+09
HNDwave	2,468	3	0	3	3
Sex	2,468	1.422609	.4940745	1	2
Race	2,468	1.616694	.4862905	1	2
PovStat	2,468	1.404781	.4909491	1	2
EducationYr	2,433	12.18496	2.579873	1	20
Age	2,468	52.97776	9.033023	32.9	73
SF01	1,760	3.114773	.9365353	1	5
HCys	1,486	10.40221	10.36594	3.87	303.93
Employment01	0				
PDSQga01	0				
PDSQga02	0				
PDSQga03	0				
PDSQga04	0				
PDSQga05	0				
PDSQga06	0				
PDSQga07	0				
PDSQga08	0				
PDSQga09	0				
PDSQga10	0				
CigaretteS~s	2,103	2.911555	1.127789	1	4
AlcStatus	2,134	3.31537	.87919	1	4
MarijCurr	1,990	1.882412	.3222005	1	2
CokeCurr	1,942	1.969104	.1730805	1	2
OpiateCurr	1,877	1.973362	.1610667	1	2
CVhighChol	2,285	1.363239	.481038	1	2
CVaFib	2,285	1.089716	.2858363	1	2
CVangina	2,285	1.100656	.3009391	1	2
CVcad	2,285	1.042888	.2026498	1	2
CVchf	2,285	1.034573	.1827364	1	2
CVmi	2,285	1.039387	.1945572	1	2
AnxietyDis~r	2,290	1.177729	.3823682	1	2
BPsitRsys	2,263	122.9585	18.23062	76	220
BPsitRdia	2,262	70.58267	10.04919	40	120
BPsitLsys	2,250	122.2787	17.98661	76	216
BPsitLdia	2,246	71.32502	10.32727	40	116
BMI	2,291	30.63998	7.955704	12.3	88
dxHTN	2,293	1.580898	.4935197	1	2
dxDiabetes	2,314	1.589023	.8128245	1	3
hei2010_to~e	2,140	46.2576	12.05283	16.62035	98.33624
CES	2,254	15.81233	11.65942	0	56
CES_DA	2,290	4.859389	5.135249	0	21
CES_IP	2,290	1.095197	1.450998	0	6
CES_SC	2,290	7.213537	4.4828	0	21
CES_WB	2,290	9.379476	2.830684	0	12
Chol	2,269	187.4606	41.57405	78	414
HDL	2,268	56.65785	18.58656	19	176
HgbA1C	2,265	6.036865	1.241404	3.8	16.2
Albumin	2,270	4.333789	.3233109	2.6	5.4

CRP	2,216	7.889009	29.71592	.0167696	1277.805
ga01	0				
ga02	0				
ga03	0				
ga04	0				
ga05	0				
ga06	0				
ga07	0				
ga08	0				
ga09	0				
ga10	0				
anxd	0				
ga01_n	0				
ga02_n	0				
ga03_n	0				
ga04_n	0				
ga05_n	0				
ga06_n	0				
ga07_n	0				
ga08_n	0				
ga09_n	0				
ga10_n	0				
anxd_n	2,290	1.177729	.3823682	1	2
ANXIETY	0				

```

403 .
404 .
405 . keep HNDID Age

406 . save Agew3, replace
    file Agew3.dta saved

407 . capture rename Age w3Age

408 . capture rename HNDID HNDID

409 . sort HNDID

410 . save, replace
    file Agew3.dta saved

411 .
412 . use DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED,clear

413 . sort HNDID

```

```

414 . capture drop _merge

415 . save, replace
    file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED.dta saved

416 .
417 . merge HNDID using Agew3
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data

418 . save, replace
    file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED.dta saved

419 .
420 . //STEP 12: MERGE THIS FILE WITH WAVE 4 AGE//
421 . use 2023-09-28_anx_wave3,clear

422 .
423 . describe

```

Contains data from **2023-09-28_anx_wave3.dta**

Observations: **2,468**

Variables: **74**

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Variable name	Storage type	Display format	Value label	Variable label
rownames	int	%8.0g		
HNDID	double	%12.0g		
HNDwave	byte	%8.0g		
Sex	byte	%8.0g	Sex	
Race	byte	%8.0g	Race	
PovStat	byte	%8.0g	PovStat	
EducationYr	byte	%8.0g		
Age	double	%12.0g		
SF01	byte	%8.0g	SF01	
HCys	double	%12.0g		
Employment01	byte	%8.0g	Employment01	
PDSQga01	byte	%8.0g	PDSQga01	
PDSQga02	byte	%8.0g	PDSQga02	
PDSQga03	byte	%8.0g	PDSQga03	
PDSQga04	byte	%8.0g	PDSQga04	
PDSQga05	byte	%8.0g	PDSQga05	
PDSQga06	byte	%8.0g	PDSQga06	
PDSQga07	byte	%8.0g	PDSQga07	
PDSQga08	byte	%8.0g	PDSQga08	
PDSQga09	byte	%8.0g	PDSQga09	
PDSQga10	byte	%8.0g	PDSQga10	
CigaretteStatus	byte	%8.0g	CigaretteStatus	
AlcStatus	byte	%8.0g	AlcStatus	
MarijCurr	byte	%8.0g	MarijCurr	
CokeCurr	byte	%8.0g	CokeCurr	
OpiateCurr	byte	%8.0g	OpiateCurr	
CVhighChol	byte	%8.0g	CVhighChol	
CVaFib	byte	%8.0g	CVaFib	
CVangina	byte	%8.0g	CVangina	
CVcad	byte	%8.0g	CVcad	

CVchf	byte	%8.0g	CVchf
CVmi	byte	%8.0g	CVmi
AnxietyDisorder	byte	%8.0g	AnxietyDisorder
BPsitRsys	int	%8.0g	
BPsitRdia	int	%8.0g	
BPsitLsys	int	%8.0g	
BPsitLdia	int	%8.0g	
BMI	double	%12.0g	
dxHTN	byte	%8.0g	dxHTN
dxDiabetes	byte	%8.0g	dxDiabetes
hei2010_total~e	double	%12.0g	
CES	byte	%8.0g	
CES_DA	byte	%8.0g	
CES_IP	byte	%8.0g	
CES_SC	byte	%8.0g	
CES_WB	byte	%8.0g	
Chol	int	%8.0g	
HDL	int	%8.0g	
HgbA1C	double	%12.0g	
Albumin	double	%12.0g	
CRP	double	%12.0g	
ga01	str3	%9s	
ga02	str3	%9s	
ga03	str3	%9s	
ga04	str3	%9s	
ga05	str3	%9s	
ga06	str3	%9s	
ga07	str3	%9s	
ga08	str3	%9s	
ga09	str3	%9s	
ga10	str3	%9s	
anxd	str3	%9s	
ga01_n	long	%8.0g	ga01_n
ga02_n	long	%8.0g	ga02_n
ga03_n	long	%8.0g	ga03_n
ga04_n	long	%8.0g	ga04_n
ga05_n	long	%8.0g	ga05_n
ga06_n	long	%8.0g	ga06_n
ga07_n	long	%8.0g	ga07_n
ga08_n	long	%8.0g	ga08_n
ga09_n	long	%8.0g	ga09_n
ga10_n	long	%8.0g	ga10_n
anxd_n	long	%8.0g	anxd_n
ANXIETY	float	%9.0g	

Sorted by: HNDID

424 . su

Variable	Obs	Mean	Std. dev.	Min	Max
rownames	2,468	4188.203	2448.433	4	8359
HNDID	2,468	8.16e+09	4.33e+07	8.03e+09	8.22e+09
HNDwave	2,468	3	0	3	3
Sex	2,468	1.422609	.4940745	1	2
Race	2,468	1.616694	.4862905	1	2
PovStat	2,468	1.404781	.4909491	1	2
EducationYr	2,433	12.18496	2.579873	1	20
Age	2,468	52.97776	9.033023	32.9	73
SF01	1,760	3.114773	.9365353	1	5

HCys	1,486	10.40221	10.36594	3.87	303.93
Employment01	0				
PDSQga01	0				
PDSQga02	0				
PDSQga03	0				
PDSQga04	0				
PDSQga05	0				
PDSQga06	0				
PDSQga07	0				
PDSQga08	0				
PDSQga09	0				
PDSQga10	0				
CigaretteS~s	2,103	2.911555	1.127789	1	4
AlcStatus	2,134	3.31537	.87919	1	4
MarijCurr	1,990	1.882412	.3222005	1	2
CokeCurr	1,942	1.969104	.1730805	1	2
OpiateCurr	1,877	1.973362	.1610667	1	2
CVhighChol	2,285	1.363239	.481038	1	2
CVaFib	2,285	1.089716	.2858363	1	2
CVangina	2,285	1.100656	.3009391	1	2
CVcad	2,285	1.042888	.2026498	1	2
CVchf	2,285	1.034573	.1827364	1	2
CVmi	2,285	1.039387	.1945572	1	2
AnxietyDis~r	2,290	1.177729	.3823682	1	2
BPsitRsys	2,263	122.9585	18.23062	76	220
BPsitRdia	2,262	70.58267	10.04919	40	120
BPsitLsys	2,250	122.2787	17.98661	76	216
BPsitLdia	2,246	71.32502	10.32727	40	116
BMI	2,291	30.63998	7.955704	12.3	88
dxHTN	2,293	1.580898	.4935197	1	2
dxDiabetes	2,314	1.589023	.8128245	1	3
hei2010_to~e	2,140	46.2576	12.05283	16.62035	98.33624
CES	2,254	15.81233	11.65942	0	56
CES_DA	2,290	4.859389	5.135249	0	21
CES_IP	2,290	1.095197	1.450998	0	6
CES_SC	2,290	7.213537	4.4828	0	21
CES_WB	2,290	9.379476	2.830684	0	12
Chol	2,269	187.4606	41.57405	78	414
HDL	2,268	56.65785	18.58656	19	176
HgbA1C	2,265	6.036865	1.241404	3.8	16.2
Albumin	2,270	4.333789	.3233109	2.6	5.4
CRP	2,216	7.889009	29.71592	.0167696	1277.805
ga01	0				
ga02	0				
ga03	0				
ga04	0				
ga05	0				
ga06	0				
ga07	0				
ga08	0				
ga09	0				
ga10	0				

anxd	0				
ga01_n	0				
ga02_n	0				
ga03_n	0				
ga04_n	0				
ga05_n	0				
ga06_n	0				
ga07_n	0				
ga08_n	0				
ga09_n	0				
ga10_n	0				
anxd_n	2,290	1.177729	.3823682	1	2
ANXIETY	0				

```

425 .
426 .
427 . keep HNDID Age

428 . save Agew3, replace
    file Agew3.dta saved

429 . capture rename Age w4Age

430 . capture rename HNDID HNDID

431 . sort HNDID

432 . save, replace
    file Agew3.dta saved

433 .
434 . use DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED,clear

435 . sort HNDID

436 . capture drop _merge

437 . save, replace
    file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED.dta saved

438 .
439 . merge HNDID using Agew4
    (you are using old merge syntax; see [D] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data

440 . save, replace
    file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED.dta saved

441 .

```

```

442 .
443 .
444 .
445 . //STEP 12: CREATE THE TIME VARIABLE BETWEEN WAVES 1, 3 and 4//
446 .
447 . use DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED,clear

```

```

448 .
449 . capture drop timew1w3w4

```

```

450 . gen timew1w3w4=.
      (12,079 missing values generated)

```

```

451 . replace timew1w3w4=0 if HNDwave==1
      (3,720 real changes made)

```

```

452 . replace timew1w3w4=w3Age-w1Age if HNDwave==3
      (2,468 real changes made)

```

```

453 . replace timew1w3w4=w4Age-w1Age if HNDwave==4
      (2,171 real changes made)

```

```

454 .
455 . su timew1w3w4 if HNDwave==4

```

Variable	Obs	Mean	Std. dev.	Min	Max
timew1w3w4	2,171	8.67462	1.657789	4.6	12.5

```

456 .
457 . save, replace
      file DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED.dta saved

```

```

458 .
459 . *****
460 . //STEP 13A: CREATE THE EXPOSURE VARIABLES AT WAVE 1//
461 . use 2023-09-28_anx_wave1,clear

```

```

462 .
463 . describe

```

Contains data from **2023-09-28_anx_wave1.dta**

Observations: **3,720**

Variables: **74**

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Variable name	Storage type	Display format	Value label	Variable label
rownames	int	%8.0g		
HNDID	double	%12.0g		
HNDwave	byte	%8.0g		
Sex	byte	%8.0g	Sex	
Race	byte	%8.0g	Race	
PovStat	byte	%8.0g	PovStat	
EducationYr	byte	%8.0g		
Age	double	%12.0g		
SF01	byte	%8.0g	SF01	
HCys	double	%12.0g		
Employment01	byte	%8.0g	Employment01	
PDSQga01	byte	%8.0g	PDSQga01	
PDSQga02	byte	%8.0g	PDSQga02	
PDSQga03	byte	%8.0g	PDSQga03	

PDSQga04	byte	%8.0g	PDSQga04
PDSQga05	byte	%8.0g	PDSQga05
PDSQga06	byte	%8.0g	PDSQga06
PDSQga07	byte	%8.0g	PDSQga07
PDSQga08	byte	%8.0g	PDSQga08
PDSQga09	byte	%8.0g	PDSQga09
PDSQga10	byte	%8.0g	PDSQga10
CigaretteStatus	byte	%8.0g	CigaretteStatus
AlcStatus	byte	%8.0g	AlcStatus
MarijCurr	byte	%8.0g	MarijCurr
CokeCurr	byte	%8.0g	CokeCurr
OpiateCurr	byte	%8.0g	OpiateCurr
CVhighChol	byte	%8.0g	CVhighChol
CVaFib	byte	%8.0g	CVaFib
CVangina	byte	%8.0g	CVangina
CVcad	byte	%8.0g	CVcad
CVchf	byte	%8.0g	CVchf
CVmi	byte	%8.0g	CVmi
AnxietyDisorder	byte	%8.0g	AnxietyDisorder
BPsitRsys	int	%8.0g	
BPsitRdia	int	%8.0g	
BPsitLsys	int	%8.0g	
BPsitLdia	int	%8.0g	
BMI	double	%12.0g	
dxHTN	byte	%8.0g	dxHTN
dxDiabetes	byte	%8.0g	dxDiabetes
hei2010_total~e	double	%12.0g	
CES	byte	%8.0g	
CES_DA	byte	%8.0g	
CES_IP	byte	%8.0g	
CES_SC	byte	%8.0g	
CES_WB	byte	%8.0g	
Chol	int	%8.0g	
HDL	int	%8.0g	
HgbA1C	double	%12.0g	
Albumin	double	%12.0g	
CRP	double	%12.0g	
ga01	str3	%9s	
ga02	str3	%9s	
ga03	str3	%9s	
ga04	str3	%9s	
ga05	str3	%9s	
ga06	str3	%9s	
ga07	str3	%9s	
ga08	str3	%9s	
ga09	str3	%9s	
ga10	str3	%9s	
anxd	str3	%9s	
ga01_n	long	%8.0g	ga01_n
ga02_n	long	%8.0g	ga02_n
ga03_n	long	%8.0g	ga03_n
ga04_n	long	%8.0g	ga04_n
ga05_n	long	%8.0g	ga05_n
ga06_n	long	%8.0g	ga06_n
ga07_n	long	%8.0g	ga07_n
ga08_n	long	%8.0g	ga08_n

```

ga09_n      long      %8.0g      ga09_n
ga10_n      long      %8.0g      ga10_n
anxd_n      long      %8.0g      anxd_n
ANXIETY      float     %9.0g

```

Sorted by: HNDID

464 . su

Variable	Obs	Mean	Std. dev.	Min	Max
rownames	3,720	4173.255	2398.332	1	8358
HNDID	3,720	8.16e+09	4.20e+07	8.03e+09	8.22e+09
HNDwave	3,720	1	0	1	1
Sex	3,720	1.452957	.497849	1	2
Race	3,720	1.59086	.4917412	1	2
PovStat	3,720	1.412634	.4923743	1	2
EducationYr	3,646	12.05129	2.543741	1	20
Age	3,720	48.26927	9.357168	29.8	66.2
SF01	3,717	3.08071	.9902358	1	5
HCys	1,460	9.176575	5.219708	2.88	112.59
Employment01	3,628	1.432194	.4954493	1	2
PDSQga01	2,228	1.138689	.3456997	1	2
PDSQga02	2,227	1.260889	.4392182	1	2
PDSQga03	2,227	1.233049	.4228681	1	2
PDSQga04	2,227	1.271217	.4446876	1	2
PDSQga05	2,227	1.351145	.4774354	1	2
PDSQga06	2,225	1.377079	.4847638	1	2
PDSQga07	2,225	1.374831	.4841882	1	2
PDSQga08	2,225	1.363596	.4811422	1	2
PDSQga09	2,225	1.349213	.4768287	1	2
PDSQga10	2,225	1.26382	.440802	1	2
CigaretteS~s	2,585	2.958607	1.202193	1	4
AlcStatus	2,581	3.321193	.9529088	1	4
MarijCurr	2,579	1.863513	.3433716	1	2
CokeCurr	2,591	1.93902	.2393404	1	2
OpiateCurr	2,509	1.963332	.1879828	1	2
CVhighChol	2,497	1.271526	.4448357	1	2
CVaFib	2,504	1.079073	.2699073	1	2
CVangina	2,504	1.093051	.2905621	1	2
CVcad	2,505	1.038723	.1929715	1	2
CVchf	2,505	1.028743	.1671153	1	2
CVmi	2,503	1.036756	.1881995	1	2
AnxietyDis~r	2,630	1.129658	.3359904	1	2
BPsitRsys	2,766	121.1312	18.03847	80	194
BPsitRdia	2,765	73.00434	11.44163	40	144
BPsitLsys	2,740	120.1639	18.14553	76	217
BPsitLdia	2,733	73.10392	11.247	37	158
BMI	2,853	30.0263	7.921048	14.35524	70.069
dxHTN	2,750	1.467273	.4990185	1	2
dxDiabetes	2,756	1.526488	.7736745	1	3
hei2010_to~e	2,177	42.59318	11.48268	12.62117	89.42492
CES	2,736	15.16301	11.44406	0	59
CES_DA	2,794	4.651038	5.014007	0	21
CES_IP	2,794	1.012527	1.3815	0	6

CES_SC	2,794	6.740157	4.480029	0	21
CES_WB	2,794	9.306371	2.96825	0	12
Chol	2,752	187.0883	43.35285	68	651
HDL	2,751	52.74264	17.28135	11	175
HgbA1C	2,754	6.008642	1.31885	3.2	17.5
Albumin	2,753	4.270432	.343827	2.2	5.3
CRP	2,646	5.036731	10.10386	.005	163
ga01	0				
ga02	0				
ga03	0				
ga04	0				
ga05	0				
ga06	0				
ga07	0				
ga08	0				
ga09	0				
ga10	0				
anxd	0				
ga01_n	2,228	1.138689	.3456997	1	2
ga02_n	2,227	1.260889	.4392182	1	2
ga03_n	2,227	1.233049	.4228681	1	2
ga04_n	2,227	1.271217	.4446876	1	2
ga05_n	2,227	1.351145	.4774354	1	2
ga06_n	2,225	1.377079	.4847638	1	2
ga07_n	2,225	1.374831	.4841882	1	2
ga08_n	2,225	1.363596	.4811422	1	2
ga09_n	2,225	1.349213	.4768287	1	2
ga10_n	2,225	1.26382	.440802	1	2
anxd_n	2,630	1.129658	.3359904	1	2
ANXIETY	2,225	12.98247	3.224116	10	20

465 .
466 .
467 . keep HNDID HCys

468 .
469 .
470 . addstub HCys, stub(w1)

471 .
472 . save HOMOCYSTEINE_EXPOSURES_w1,replace
file HOMOCYSTEINE_EXPOSURES_w1.dta saved

473 .
474 .

```

475 . //STEP 13B: CREATE THE EXPOSURE VARIABLES AT WAVE 3//
476 .
477 . use 2023-09-28_anx_wave3,clear

478 .
479 . describe

```

Contains data from **2023-09-28_anx_wave3.dta**

Observations: **2,468**

Variables: **74**

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Variable name	Storage type	Display format	Value label	Variable label
rownames	int	%8.0g		
HNDID	double	%12.0g		
HNDwave	byte	%8.0g		
Sex	byte	%8.0g	Sex	
Race	byte	%8.0g	Race	
PovStat	byte	%8.0g	PovStat	
EducationYr	byte	%8.0g		
Age	double	%12.0g		
SF01	byte	%8.0g	SF01	
HCys	double	%12.0g		
Employment01	byte	%8.0g	Employment01	
PDSQga01	byte	%8.0g	PDSQga01	
PDSQga02	byte	%8.0g	PDSQga02	
PDSQga03	byte	%8.0g	PDSQga03	
PDSQga04	byte	%8.0g	PDSQga04	
PDSQga05	byte	%8.0g	PDSQga05	
PDSQga06	byte	%8.0g	PDSQga06	
PDSQga07	byte	%8.0g	PDSQga07	
PDSQga08	byte	%8.0g	PDSQga08	
PDSQga09	byte	%8.0g	PDSQga09	
PDSQga10	byte	%8.0g	PDSQga10	
CigaretteStatus	byte	%8.0g	CigaretteStatus	
AlcStatus	byte	%8.0g	AlcStatus	
MarijCurr	byte	%8.0g	MarijCurr	
CokeCurr	byte	%8.0g	CokeCurr	
OpiateCurr	byte	%8.0g	OpiateCurr	
CVhighChol	byte	%8.0g	CVhighChol	
CVaFib	byte	%8.0g	CVaFib	
CVangina	byte	%8.0g	CVangina	
CVcad	byte	%8.0g	CVcad	
CVchf	byte	%8.0g	CVchf	
CVmi	byte	%8.0g	CVmi	
AnxietyDisorder	byte	%8.0g	AnxietyDisorder	
BPsitRsyst	int	%8.0g		
BPsitRdia	int	%8.0g		
BPsitLsyst	int	%8.0g		
BPsitLdia	int	%8.0g		
BMI	double	%12.0g		
dxHTN	byte	%8.0g	dxHTN	
dxDiabetes	byte	%8.0g	dxDiabetes	
hei2010_total~e	double	%12.0g		

CES	byte	%8.0g	
CES_DA	byte	%8.0g	
CES_IP	byte	%8.0g	
CES_SC	byte	%8.0g	
CES_WB	byte	%8.0g	
Chol	int	%8.0g	
HDL	int	%8.0g	
HgbA1C	double	%12.0g	
Albumin	double	%12.0g	
CRP	double	%12.0g	
ga01	str3	%9s	
ga02	str3	%9s	
ga03	str3	%9s	
ga04	str3	%9s	
ga05	str3	%9s	
ga06	str3	%9s	
ga07	str3	%9s	
ga08	str3	%9s	
ga09	str3	%9s	
ga10	str3	%9s	
anxd	str3	%9s	
ga01_n	long	%8.0g	ga01_n
ga02_n	long	%8.0g	ga02_n
ga03_n	long	%8.0g	ga03_n
ga04_n	long	%8.0g	ga04_n
ga05_n	long	%8.0g	ga05_n
ga06_n	long	%8.0g	ga06_n
ga07_n	long	%8.0g	ga07_n
ga08_n	long	%8.0g	ga08_n
ga09_n	long	%8.0g	ga09_n
ga10_n	long	%8.0g	ga10_n
anxd_n	long	%8.0g	anxd_n
ANXIETY	float	%9.0g	

Sorted by: HNDID

480 . su

Variable	Obs	Mean	Std. dev.	Min	Max
rownames	2,468	4188.203	2448.433	4	8359
HNDID	2,468	8.16e+09	4.33e+07	8.03e+09	8.22e+09
HNDwave	2,468	3	0	3	3
Sex	2,468	1.422609	.4940745	1	2
Race	2,468	1.616694	.4862905	1	2
PovStat	2,468	1.404781	.4909491	1	2
EducationYr	2,433	12.18496	2.579873	1	20
Age	2,468	52.97776	9.033023	32.9	73
SF01	1,760	3.114773	.9365353	1	5
HCys	1,486	10.40221	10.36594	3.87	303.93
Employment01	0				
PDSQga01	0				
PDSQga02	0				
PDSQga03	0				
PDSQga04	0				
PDSQga05	0				
PDSQga06	0				
PDSQga07	0				
PDSQga08	0				
PDSQga09	0				

PDSQga10	0				
CigaretteS~s	2,103	2.911555	1.127789	1	4
AlcStatus	2,134	3.31537	.87919	1	4
MarijCurr	1,990	1.882412	.3222005	1	2
CokeCurr	1,942	1.969104	.1730805	1	2
OpiateCurr	1,877	1.973362	.1610667	1	2
CVhighChol	2,285	1.363239	.481038	1	2
CVaFib	2,285	1.089716	.2858363	1	2
CVangina	2,285	1.100656	.3009391	1	2
CVcad	2,285	1.042888	.2026498	1	2
CVchf	2,285	1.034573	.1827364	1	2
CVmi	2,285	1.039387	.1945572	1	2
AnxietyDis~r	2,290	1.177729	.3823682	1	2
BPsitRsys	2,263	122.9585	18.23062	76	220
BPsitRdia	2,262	70.58267	10.04919	40	120
BPsitLsys	2,250	122.2787	17.98661	76	216
BPsitLdia	2,246	71.32502	10.32727	40	116
BMI	2,291	30.63998	7.955704	12.3	88
dxHTN	2,293	1.580898	.4935197	1	2
dxDiabetes	2,314	1.589023	.8128245	1	3
hei2010_to~e	2,140	46.2576	12.05283	16.62035	98.33624
CES	2,254	15.81233	11.65942	0	56
CES_DA	2,290	4.859389	5.135249	0	21
CES_IP	2,290	1.095197	1.450998	0	6
CES_SC	2,290	7.213537	4.4828	0	21
CES_WB	2,290	9.379476	2.830684	0	12
Chol	2,269	187.4606	41.57405	78	414
HDL	2,268	56.65785	18.58656	19	176
HgbA1C	2,265	6.036865	1.241404	3.8	16.2
Albumin	2,270	4.333789	.3233109	2.6	5.4
CRP	2,216	7.889009	29.71592	.0167696	1277.805
ga01	0				
ga02	0				
ga03	0				
ga04	0				
ga05	0				
ga06	0				
ga07	0				
ga08	0				
ga09	0				
ga10	0				
anxd	0				
ga01_n	0				
ga02_n	0				
ga03_n	0				
ga04_n	0				
ga05_n	0				
ga06_n	0				
ga07_n	0				
ga08_n	0				
ga09_n	0				
ga10_n	0				

anxd_n	2,290	1.177729	.3823682	1	2
ANXIETY	0				

```

481 .
482 .
483 . keep HNDID HCys

484 .
485 .
486 . addstub HCys, stub(w3)

487 .
488 . save HOMOCYSTEINE_EXPOSURES_W3,replace
    file HOMOCYSTEINE_EXPOSURES_W3.dta saved

489 .
490 .
491 . //STEP 13C: CREATE THE EXPOSURE VARIABLES AT WAVE 4//
492 .
493 . use 2023-09-28_anx_wave4,clear

494 .
495 . describe

```

Contains data from 2023-09-28_anx_wave4.dta

Observations: 2,171

Variables: 74

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Variable name	Storage type	Display format	Value label	Variable label
rownames	int	%8.0g		
HNDID	double	%12.0g		
HNDwave	byte	%8.0g		
Sex	byte	%8.0g	Sex	
Race	byte	%8.0g	Race	
PovStat	byte	%8.0g	PovStat	
EducationYr	byte	%8.0g		
Age	double	%12.0g		
SF01	byte	%8.0g	SF01	
HCys	double	%12.0g		
Employment01	byte	%8.0g	Employment01	
PDSQga01	byte	%8.0g	PDSQga01	
PDSQga02	byte	%8.0g	PDSQga02	
PDSQga03	byte	%8.0g	PDSQga03	
PDSQga04	byte	%8.0g	PDSQga04	
PDSQga05	byte	%8.0g	PDSQga05	
PDSQga06	byte	%8.0g	PDSQga06	
PDSQga07	byte	%8.0g	PDSQga07	
PDSQga08	byte	%8.0g	PDSQga08	
PDSQga09	byte	%8.0g	PDSQga09	
PDSQga10	byte	%8.0g	PDSQga10	
CigaretteStatus	byte	%8.0g	CigaretteStatus	
AlcStatus	byte	%8.0g	AlcStatus	
MarijCurr	byte	%8.0g	MarijCurr	
CokeCurr	byte	%8.0g	CokeCurr	
OpiateCurr	byte	%8.0g	OpiateCurr	
CVhighChol	byte	%8.0g	CVhighChol	

CVaFib	byte	%8.0g	CVaFib
CVangina	byte	%8.0g	CVangina
CVcad	byte	%8.0g	CVcad
CVchf	byte	%8.0g	CVchf
CVmi	byte	%8.0g	CVmi
AnxietyDisorder	byte	%8.0g	AnxietyDisorder
BPsitRsys	int	%8.0g	
BPsitRdia	int	%8.0g	
BPsitLsys	int	%8.0g	
BPsitLdia	int	%8.0g	
BMI	double	%12.0g	
dxHTN	byte	%8.0g	dxHTN
dxDiabetes	byte	%8.0g	dxDiabetes
hei2010_total~e	double	%12.0g	
CES	byte	%8.0g	
CES_DA	byte	%8.0g	
CES_IP	byte	%8.0g	
CES_SC	byte	%8.0g	
CES_WB	byte	%8.0g	
Chol	int	%8.0g	
HDL	int	%8.0g	
HgbA1C	double	%12.0g	
Albumin	double	%12.0g	
CRP	double	%12.0g	
ga01	str3	%9s	
ga02	str3	%9s	
ga03	str3	%9s	
ga04	str3	%9s	
ga05	str3	%9s	
ga06	str3	%9s	
ga07	str3	%9s	
ga08	str3	%9s	
ga09	str3	%9s	
ga10	str3	%9s	
anxd	str3	%9s	
ga01_n	long	%8.0g	ga01_n
ga02_n	long	%8.0g	ga02_n
ga03_n	long	%8.0g	ga03_n
ga04_n	long	%8.0g	ga04_n
ga05_n	long	%8.0g	ga05_n
ga06_n	long	%8.0g	ga06_n
ga07_n	long	%8.0g	ga07_n
ga08_n	long	%8.0g	ga08_n
ga09_n	long	%8.0g	ga09_n
ga10_n	long	%8.0g	ga10_n
anxd_n	long	%8.0g	anxd_n
ANXIETY	float	%9.0g	

Sorted by: HNDID

496 . su

Variable	Obs	Mean	Std. dev.	Min	Max
rownames	2,171	4182.233	2399.216	5	8357
HNDID	2,171	8.16e+09	4.24e+07	8.03e+09	8.22e+09
HNDwave	2,171	4	0	4	4
Sex	2,171	1.413634	.4925979	1	2
Race	2,171	1.610778	.4876861	1	2
PovStat	2,171	1.405343	.4910714	1	2
EducationYr	2,139	12.15895	2.52434	1	20
Age	2,171	56.60129	9.10942	36.4	76.9
SF01	2,129	3.060592	.930676	1	5
HCys	1,280	10.68614	4.557427	4.18	53.11
Employment01	0				
PDSQga01	1,893	1.15795	.3647908	1	2
PDSQga02	1,890	1.198942	.3993098	1	2
PDSQga03	1,887	1.173821	.3790558	1	2
PDSQga04	1,887	1.244833	.4301022	1	2
PDSQga05	1,886	1.294804	.4560754	1	2
PDSQga06	1,885	1.311406	.4631912	1	2
PDSQga07	1,884	1.347134	.4761851	1	2
PDSQga08	1,884	1.28397	.4510423	1	2
PDSQga09	1,883	1.326606	.4690965	1	2
PDSQga10	1,880	1.23883	.426482	1	2
CigaretteS~s	2,013	2.958768	1.137552	1	4
AlcStatus	2,030	3.298522	.8664082	1	4
MarijCurr	1,900	1.841579	.3652315	1	2
CokeCurr	1,852	1.968683	.1742214	1	2
OpiateCurr	1,804	1.972284	.164204	1	2
CVhighChol	2,107	1.449454	.4975566	1	2
CVaFib	2,107	1.10916	.3119138	1	2
CVangina	2,107	1.113906	.3177725	1	2
CVcad	2,107	1.059801	.2371734	1	2
CVchf	2,107	1.04841	.2146821	1	2
CVmi	2,107	1.05458	.2272125	1	2
AnxietyDis~r	2,151	1.259879	.4386701	1	2
BPsitRsys	2,113	118.6602	17.79255	80	204
BPsitRdia	2,112	65.94934	9.811911	40	118
BPsitLsys	2,115	119.079	17.86099	72	208
BPsitLdia	2,115	67.28747	9.948667	40	120
BMI	2,142	30.86928	7.952211	13.8	76.5
dxHTN	2,153	1.648398	.4775815	1	2
dxDiabetes	2,162	1.650786	.8461863	1	3
hei2010_to~e	2,066	48.68347	12.09708	14.40958	90.44823
CES	2,007	13.79771	10.87457	0	57
CES_DA	2,015	3.893797	4.474094	0	21
CES_IP	2,015	.830273	1.269134	0	6
CES_SC	2,015	5.874442	4.275007	0	21
CES_WB	2,015	8.808437	3.147015	0	12
Chol	2,087	187.966	43.12726	58	409
HDL	2,085	57.31175	19.81095	14	199
HgbA1C	2,075	6.212386	1.351279	3.8	19.4
Albumin	2,086	4.2535	.3457376	2.2	5.4

CRP	2,082	5.310447	9.392764	.15	125
ga01	0				
ga02	0				
ga03	0				
ga04	0				
ga05	0				
ga06	0				
ga07	0				
ga08	0				
ga09	0				
ga10	0				
anxd	0				
ga01_n	1,893	1.15795	.3647908	1	2
ga02_n	1,890	1.198942	.3993098	1	2
ga03_n	1,887	1.173821	.3790558	1	2
ga04_n	1,887	1.244833	.4301022	1	2
ga05_n	1,886	1.294804	.4560754	1	2
ga06_n	1,885	1.311406	.4631912	1	2
ga07_n	1,884	1.347134	.4761851	1	2
ga08_n	1,884	1.28397	.4510423	1	2
ga09_n	1,883	1.326606	.4690965	1	2
ga10_n	1,880	1.23883	.426482	1	2
anxd_n	2,151	1.259879	.4386701	1	2
ANXIETY	1,880	12.58138	3.213161	10	20

```

497 .
498 .
499 . keep HNDID HCys

500 .
501 .
502 . addstub HCys, stub(w4)

503 .
504 . save HOMOCYSTEINE_EXPOSURES_w4,replace
    file HOMOCYSTEINE_EXPOSURES_w4.dta saved

505 .
506 .
507 . //STEP 13D: MERGE WAVES, 1, 3 AND 4 EXPOSURES WITH FINAL FILE///
508 .
509 . use DEPRESSIVE_SYMPTOMS_DEMO_WIDEW1W3W4_APPENDED,clear

510 . capture drop _merge

511 . sort HNDID

```

```

512 .
513 . save HANDLS_PAPER64_HCYDEPANXIETY_LONG, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

514 .
515 .
516 . use HOMOCYSTEINE_EXPOSURES_W1,clear

517 . sort HNDID

518 . capture drop _merge

519 . save HOMOCYSTEINE_EXPOSURES_W1, replace
    file HOMOCYSTEINE_EXPOSURES_W1.dta saved

520 .
521 .
522 . use HOMOCYSTEINE_EXPOSURES_W3,clear

523 . sort HNDID

524 . capture drop _merge

525 . save HOMOCYSTEINE_EXPOSURES_W3, replace
    file HOMOCYSTEINE_EXPOSURES_W3.dta saved

526 .
527 .
528 . use HOMOCYSTEINE_EXPOSURES_W4,clear

529 . sort HNDID

530 . capture drop _merge

531 . save HOMOCYSTEINE_EXPOSURES_W4, replace
    file HOMOCYSTEINE_EXPOSURES_W4.dta saved

532 .
533 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG

534 . merge HNDID using HOMOCYSTEINE_EXPOSURES_W1
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data

535 . tab _merge

```

_merge	Freq.	Percent	Cum.
3	12,079	100.00	100.00
Total	12,079	100.00	

536 . capture drop _merge

537 . sort HNDID

538 . merge HNDID using HOMOCYSTEINE_EXPOSURES_W3
(you are using old merge syntax; see [\[D1 merge\]](#) for new syntax)
variable HNDID does not uniquely identify observations in the master data

539 . tab _merge

_merge	Freq.	Percent	Cum.
1	2,734	22.63	22.63
3	9,345	77.37	100.00
Total	12,079	100.00	

540 . capture drop _merge

541 . sort HNDID

542 . merge HNDID using HOMOCYSTEINE_EXPOSURES_W4
(you are using old merge syntax; see [\[D1 merge\]](#) for new syntax)
variable HNDID does not uniquely identify observations in the master data

543 . tab _merge

_merge	Freq.	Percent	Cum.
1	3,625	30.01	30.01
3	8,454	69.99	100.00
Total	12,079	100.00	

544 . capture drop _merge

545 . sort HNDID

546 .
547 . save HANDLS_PAPER64_HCYDEPANXIETY_LONG, replace
file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

548 .
549 .
550 . *****
551 .
552 .
553 . //STEP 13: CREATE ALL OTHER COVARIATE VARIABLES AT WAVES 1 //
554 .
555 . *****WAVE 1 VARIABLES*****
556 .

```
557 . use 2023-09-28_anx_wave1,clear

558 . capture rename HNDID HNDID

559 . save, replace
    file 2023-09-28_anx_wave1.dta saved

560 .
561 .
562 . ///DEMOGRAPHICS//
    >
563 . keep HNDID Race PovStat Sex

564 . save DEMOGRAPHICS_wave1, replace
    file DEMOGRAPHICS_wave1.dta saved

565 . sort HNDID

566 . save, replace
    file DEMOGRAPHICS_wave1.dta saved

567 .
568 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG, clear

569 . sort HNDID

570 . capture drop _merge

571 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

572 .
573 .
574 . merge HNDID using DEMOGRAPHICS_wave1
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data
    (label PovStat already defined)
    (label Race already defined)
    (label Sex already defined)

575 .
576 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

577 .
578 .
579 . // EDUCATION//
580 . use 2023-09-28_anx_wave1,clear

581 . capture rename HNDID HNDID
```

```

582 . save, replace
    file 2023-09-28_anx_wave1.dta saved

583 .
584 .
585 . keep HNDID Education

586 . capture rename Education w1Education

587 . save Educationw1, replace
    file Educationw1.dta saved

588 . sort HNDID

589 . save,replace
    file Educationw1.dta saved

590 .
591 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

592 . sort HNDID

593 . capture drop _merge

594 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

595 .
596 . merge HNDID using Educationw1
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data

597 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

598 .
599 . tab w1Education if HNDwave==1

```

w1Education	Freq.	Percent	Cum.
1	5	0.14	0.14
2	9	0.25	0.38
3	5	0.14	0.52
4	4	0.11	0.63
5	5	0.14	0.77
6	31	0.85	1.62
7	65	1.78	3.40
8	134	3.68	7.08
9	213	5.84	12.92
10	364	9.98	22.90
11	410	11.25	34.15
12	1,253	34.37	68.51
13	254	6.97	75.48
14	402	11.03	86.51
15	76	2.08	88.59
16	246	6.75	95.34
17	74	2.03	97.37
18	70	1.92	99.29
20	26	0.71	100.00
Total	3,646	100.00	

```

600 .
601 . capture drop w1edubr

602 . gen w1edubr=.
      (12,079 missing values generated)

603 . replace w1edubr=1 if w1Education>=1 & w1Education<=8
      (822 real changes made)

604 . replace w1edubr=2 if w1Education>=9 & w1Education<=12
      (7,228 real changes made)

605 . replace w1edubr=3 if w1Education>=13 & w1Education~=.
      (3,814 real changes made)

606 .
607 . tab w1edubr if HNDwave==1

```

w1edubr	Freq.	Percent	Cum.
1	258	7.08	7.08
2	2,240	61.44	68.51
3	1,148	31.49	100.00
Total	3,646	100.00	

```

608 . tab w1edubr w1Education

```

w1edubr	w1Education								
	1	2	3	4	5	6	7	8	9
1	16	30	17	11	16	94	206	432	0
2	0	0	0	0	0	0	0	0	670
3	0	0	0	0	0	0	0	0	0
Total	16	30	17	11	16	94	206	432	670

w1edubr	w1Education								Total
	12	13	14	15	16	17	18	20	
1	0	0	0	0	0	0	0	0	822
2	4,081	0	0	0	0	0	0	0	7,228
3	0	827	1,329	255	831	246	241	85	3,814
Total	4,081	827	1,329	255	831	246	241	85	11,864

```

609 .
610 . save, replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

```

```

611 .
612 .
613 . //LIFESTYLE FACTORS: SMOKING AND DRUG USE: CigaretteStatus //
614 .
615 . use 2023-09-28_anx_wave1,clear

616 . capture rename HNDID HNDID

617 . save, replace
    file 2023-09-28_anx_wave1.dta saved

618 .
619 .
620 . keep HNDID CigaretteStatus MarijCurr CokeCurr OpiateCurr

621 . addstub CigaretteStatus MarijCurr CokeCurr OpiateCurr,stub(w1)

622 . sort HNDID

623 . save Smoke_drugsw1,replace
    file Smoke_drugsw1.dta saved

624 .
625 .
626 . **Current smoking status**
627 .
628 . tab w1CigaretteStatus

```

w1CigaretteStatus	Freq.	Percent	Cum.
Never tried	554	21.43	21.43
Tried, never used regularly	261	10.10	31.53
Former user	508	19.65	51.18
Current user	1,262	48.82	100.00
Total	2,585	100.00	

```

629 . su w1CigaretteStatus

```

Variable	Obs	Mean	Std. dev.	Min	Max
w1CigaretteStatus	2,585	2.958607	1.202193	1	4

```

630 .
631 . capture drop w1smoke

632 . gen w1smoke=.
    (3,720 missing values generated)

633 . replace w1smoke=1 if w1CigaretteStatus==4
    (1,262 real changes made)

```


634 . replace w1smoke=0 if w1CigaretteStatus~=4 & w1CigaretteStatus~=.
(1,323 real changes made)

635 . replace w1smoke=9 if w1smoke==.
(1,135 real changes made)

636 .

637 . tab1 w1smoke w1CigaretteStatus w1MarijCurr w1CokeCurr w1OpiateCurr

-> tabulation of w1smoke

w1smoke	Freq.	Percent	Cum.
0	1,323	35.56	35.56
1	1,262	33.92	69.49
9	1,135	30.51	100.00
Total	3,720	100.00	

-> tabulation of w1CigaretteStatus

w1CigaretteStatus	Freq.	Percent	Cum.
Never tried	554	21.43	21.43
Tried, never used regularly	261	10.10	31.53
Former user	508	19.65	51.18
Current user	1,262	48.82	100.00
Total	2,585	100.00	

-> tabulation of w1MarijCurr

w1MarijCurr	Freq.	Percent	Cum.
Yes	352	13.65	13.65
No	2,227	86.35	100.00
Total	2,579	100.00	

-> tabulation of w1CokeCurr

w1CokeCurr	Freq.	Percent	Cum.
Yes	158	6.10	6.10
No	2,433	93.90	100.00
Total	2,591	100.00	

-> tabulation of w1OpiateCurr

w1OpiateCurr	Freq.	Percent	Cum.
Yes	92	3.67	3.67
No	2,417	96.33	100.00
Total	2,509	100.00	

```

638 .
639 . capture drop w1smoke1 w1smoke9

640 . gen w1smoke1=1 if w1smoke==1
      (2,458 missing values generated)

641 . replace w1smoke1=0 if w1smoke~=1
      (2,458 real changes made)

642 .
643 . gen w1smoke9=1 if w1smoke==9
      (2,585 missing values generated)

644 . replace w1smoke9=0 if w1smoke~=9
      (2,585 real changes made)

645 .
646 . sort HNDID

647 .
648 . save, replace
      file Smoke_drugsw1.dta saved

649 .
650 .
651 . **Current drug use**
652 .
653 . tab1 w1MarijCurr w1CokeCurr w1OpiateCurr

```

-> tabulation of w1MarijCurr

w1MarijCurr	Freq.	Percent	Cum.
Yes	352	13.65	13.65
No	2,227	86.35	100.00
Total	2,579	100.00	

-> tabulation of w1CokeCurr

w1CokeCurr	Freq.	Percent	Cum.
Yes	158	6.10	6.10
No	2,433	93.90	100.00
Total	2,591	100.00	

-> tabulation of w1OpiateCurr

w1OpiateCur r	Freq.	Percent	Cum.
Yes	92	3.67	3.67
No	2,417	96.33	100.00
Total	2,509	100.00	

```

654 .
655 . capture drop w1currrdrugs

656 . gen w1currrdrugs=.
      (3,720 missing values generated)

657 . replace w1currrdrugs=1 if w1MarijCurr==1 | w1CokeCurr==1 | w1OpiateCurr==1
      (453 real changes made)

658 . replace w1currrdrugs=0 if w1currrdrugs~=1 & w1MarijCurr~= . & w1CokeCurr~= . & w1OpiateCurr~= .
      (2,044 real changes made)

659 . replace w1currrdrugs=9 if w1currrdrugs==.
      (1,223 real changes made)

660 .
661 . tab w1currrdrugs

```

w1currrdrugs	Freq.	Percent	Cum.
0	2,044	54.95	54.95
1	453	12.18	67.12
9	1,223	32.88	100.00
Total	3,720	100.00	

```

662 .
663 . tab w1currrdrugs w1MarijCurr

```

w1currrdrug s	w1MarijCurr		Total
	Yes	No	
0	0	2,044	2,044
1	352	99	451
9	0	84	84
Total	352	2,227	2,579

```

664 . tab w1currrdrugs w1CokeCurr

```

w1currrdrug s	w1CokeCurr		Total
	Yes	No	
0	0	2,044	2,044
1	158	293	451
9	0	96	96
Total	158	2,433	2,591

```

665 . tab w1currrdrugs w1OpiateCurr

```

w1currrdrug s	w1OpiateCurr		Total
	Yes	No	
0	0	2,044	2,044
1	92	347	439
9	0	26	26
Total	92	2,417	2,509

```

666 .
667 . save, replace
    file Smoke_drugsw1.dta saved

668 .
669 .
670 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

671 . sort HNDID

672 . capture drop _merge

673 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

674 .
675 . merge HNDID using Smoke_drugsw1
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data

676 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

677 .
678 .
679 .
680 .
681 . //CES-D, BMI, SELF-RATED HEALTH AND CO-MORBID CONDITIONS//
682 .
683 . use 2023-09-28_anx_wave1,clear

684 . capture rename HNDID HNDID

685 . save, replace
    file 2023-09-28_anx_wave1.dta saved

686 .
687 .
688 . keep HNDID BMI SF01 dxHTN dxDiabetes CVhighChol CVaFib CVangina CVcad CVchf CVmi

689 .
690 . addstub SF01-dxDiabetes,stub(w1)

691 .
692 . save HEALTH_w1, replace
    file HEALTH_w1.dta saved

693 .
694 . tab w1SF01

```

w1SF01	Freq.	Percent	Cum.
Poor	187	5.03	5.03
Fair	827	22.25	27.28
Good	1,498	40.30	67.58
vGood	909	24.46	92.04
Excellent	296	7.96	100.00
Total	3,717	100.00	

```

695 .
696 .
697 . capture drop w1SRH

698 . gen w1SRH=.
      (3,720 missing values generated)

699 . replace w1SRH=1 if w1SF01==1 | w1SF01==2
      (1,014 real changes made)

700 . replace w1SRH=2 if w1SF01==3
      (1,498 real changes made)

701 . replace w1SRH=3 if w1SF01==4 | w1SF01==5
      (1,205 real changes made)

702 .
703 .
704 . tab w1SRH

```

w1SRH	Freq.	Percent	Cum.
1	1,014	27.28	27.28
2	1,498	40.30	67.58
3	1,205	32.42	100.00
Total	3,717	100.00	

```

705 .
706 . save, replace
      file HEALTH_w1.dta saved

707 .
708 . su w1dxHTN w1dxDiabetes

```

Variable	Obs	Mean	Std. dev.	Min	Max
w1dxHTN	2,750	1.467273	.4990185	1	2
w1dxDiabetes	2,756	1.526488	.7736745	1	3

```

709 .
710 . tab1 w1dxHTN w1dxDiabetes

```

-> tabulation of w1dxHTN

w1dxHTN	Freq.	Percent	Cum.
No	1,465	53.27	53.27
Yes	1,285	46.73	100.00
Total	2,750	100.00	

-> tabulation of w1dxDiabetes

w1dxDiabetes	Freq.	Percent	Cum.
NoDx	1,786	64.80	64.80
preDiabetes	489	17.74	82.55
Diabetes	481	17.45	100.00
Total	2,756	100.00	

711 .
 712 .
 713 . tab1 w1CVhighChol

-> tabulation of w1CVhighChol

w1CVhighChol	Freq.	Percent	Cum.
No	1,819	72.85	72.85
Yes	678	27.15	100.00
Total	2,497	100.00	

714 .
 715 . save, replace
 file HEALTH_w1.dta saved

716 .
 717 . tab1 w1CVaFib w1CVangina w1CVcad w1CVchf w1CVmi

-> tabulation of w1CVaFib

w1CVaFib	Freq.	Percent	Cum.
No	2,306	92.09	92.09
Yes	198	7.91	100.00
Total	2,504	100.00	

-> tabulation of w1CVangina

w1CVangina	Freq.	Percent	Cum.
No	2,271	90.69	90.69
Yes	233	9.31	100.00
Total	2,504	100.00	

-> tabulation of w1CVcad

w1CVcad	Freq.	Percent	Cum.
No	2,408	96.13	96.13
Yes	97	3.87	100.00
Total	2,505	100.00	

-> tabulation of w1CVchf

w1CVchf	Freq.	Percent	Cum.
No	2,433	97.13	97.13
Yes	72	2.87	100.00
Total	2,505	100.00	

-> tabulation of w1CVmi

w1CVmi	Freq.	Percent	Cum.
No	2,411	96.32	96.32
Yes	92	3.68	100.00
Total	2,503	100.00	

718 .

719 . capture drop w1cvdbr

720 . gen w1cvdbr=.

(3,720 missing values generated)

721 . replace w1cvdbr=1 if w1CVaFib==2 | w1CVangina==2 | w1CVcad==2 | w1CVchf==2 | w1CVmi==2

(461 real changes made)

722 . replace w1cvdbr=0 if w1cvdbr~=1 & w1CVaFib~. & w1CVangina~. & w1CVcad~. & w1CVchf~. & w1CVmi~.

(2,042 real changes made)

723 .

724 .

725 . tab w1cvdbr

w1cvdbr	Freq.	Percent	Cum.
0	2,042	81.58	81.58
1	461	18.42	100.00
Total	2,503	100.00	

726 .

727 .

728 . sort HNDID

729 . save, replace

file HEALTH_w1.dta saved

730 .

731 .

732 .

733 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

734 . sort HNDID

735 . capture drop _merge

736 . save, replace

file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

737 .

738 .

```

739 .
740 . merge HNDID using HEALTH_w1
      (you are using old merge syntax; see \[D\] merge for new syntax)
      variable HNDID does not uniquely identify observations in the master data

```

```

741 . save, replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

```

```

742 .
743 .
744 . //HEI, Wave 1://
745 .
746 .
747 . use 2023-09-28_anx_wave1,clear

```

```

748 . capture rename HNDID HNDID

```

```

749 . save, replace
      file 2023-09-28_anx_wave1.dta saved

```

```

750 .
751 .
752 . keep HNDID hei2010_total_score

```

```

753 . addstub hei2010_total_score,stub(w1)

```

```

754 . sort HNDID

```

```

755 . save Otherdietarysw1,replace
      file Otherdietarysw1.dta saved

```

```

756 .
757 .
758 . su w1hei2010_total_score

```

Variable	Obs	Mean	Std. dev.	Min	Max
w1hei2010_~e	2,177	42.59318	11.48268	12.62117	89.42492

```

759 . histogram w1hei2010_total_score
      (bin=33, start=12.62117, width=2.3273864)

```

```

760 .
761 .
762 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

```

```

763 . sort HNDID

```

```

764 . capture drop _merge

```

```

765 . save, replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

```



```
766 .
767 .
768 . merge HNDID using Otherdietarysw1
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data

769 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

770 .
771 .
772 . //ANXIETY VARIABLES, WAVE 1//
773 .
774 .
775 . use 2023-09-28_anx_wave1,clear

776 . capture rename HNDID HNDID

777 . save, replace
    file 2023-09-28_anx_wave1.dta saved

778 .
779 . capture drop ANXIETY_ORD

780 . gen ANXIETY_ORD=ANXIETY-10
    (1,495 missing values generated)

781 .
782 . save, replace
    file 2023-09-28_anx_wave1.dta saved

783 .
784 .
785 .
786 . keep HNDID ANXIETY* AnxietyDisorder ga* anxd

787 . addstub ANXIETY* AnxietyDisorder ga* anxd,stub(w1)

788 . sort HNDID

789 . save ANXIETYw1,replace
    file ANXIETYw1.dta saved

790 .
791 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

792 . sort HNDID

793 . capture drop _merge

794 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved
```

```

795 .
796 .
797 . merge HNDID using ANXIETYw1
    (you are using old merge syntax; see \[D\] merge for new syntax)
    variable HNDID does not uniquely identify observations in the master data
    (label AnxietyDisorder already defined)

798 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

799 .
800 .
801 . //STEP 14: CREATE DEPRESSIVE SYMPTOMS SELECTION VARIABLES//
802 .
803 .
804 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

805 . sort HNDID

806 . capture drop _merge

807 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

808 .
809 . capture drop sample_CES=.

810 . gen sample_CES=1 if w1CES~= . | w3CES~= . | w4CES~= .
    (1,459 missing values generated)

811 . replace sample_CES=0 if sample_CES~=1
    (1,459 real changes made)

812 .
813 . tab sample_CES if HNDwave==1

      sample_CES |          Freq.   Percent   Cum.
      +-----+
           0      |          692    18.60    18.60
           1      |         3,028    81.40   100.00
      +-----+
        Total    |         3,720   100.00

814 .
815 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

816 .
817 .
818 .
819 .

```

```

820 . //STEP 15A: RENAME FIXED COVARIATES///
821 .
822 .
823 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

824 . sort HNDID

825 . capture drop _merge

826 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

827 .
828 . capture rename w1Sex Sex

829 . capture rename w1Race Race

830 . capture rename w1PovStat PovStat

831 .
832 . save, replace
    file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

833 .
834 .
835 .
836 . //STEP 15B: CREATE EMPIRICAL BAYES ESTIMATORS FOR CES-D TOTAL SCORE AND DOMAINS ANNUALIZED RATE OF CHANGE: //
837 .
838 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

839 .
840 .
841 . **CES**
842 .
843 . xtmixed CES timew1w3w4 ||HNDID: timew1w3w4, cov(un)

```

Performing EM optimization:

Performing gradient-based optimization:

```

Iteration 0: Log likelihood = -26047.164
Iteration 1: Log likelihood = -26021.171
Iteration 2: Log likelihood = -26020.415
Iteration 3: Log likelihood = -26020.406
Iteration 4: Log likelihood = -26020.406

```

Computing standard errors:

Mixed-effects ML regression
Group variable: HNDID

```

Number of obs    = 6,997
Number of groups = 3,028
Obs per group:
    min = 1
    avg = 2.3
    max = 3
Wald chi2(1)     = 23.90
Prob > chi2      = 0.0000

```

Log likelihood = -26020.406

CES	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.1279407	.0261719	-4.89	0.000	-.1792366	-.0766448
_cons	15.63814	.2115595	73.92	0.000	15.22349	16.05279

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.3485934	.0903266	.2097771	.5792689
sd(_cons)	9.083296	.2062307	8.687953	9.496629
corr(timew1w3w4,_cons)	-.3817178	.0745101	-.5175696	-.2270942
sd(Residual)	7.243474	.1140634	7.023329	7.47052

LR test vs. linear model: $\chi^2(3) = 1830.25$ Prob > $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

```

844 .
845 .
846 . capture drop e_consCES e_TIMECES

847 . predict e_TIMECES e_consCES, reffects level(HNDID)
      (1,459 missing values generated)
      (1,459 missing values generated)

848 .
849 . estat ic

```

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	6,997	.	-26020.41	6	52052.81	52093.93

Note: BIC uses N = number of observations. See [R] IC note.

```

850 .
851 . capture drop bayes1CES

852 . gen bayes1CES= -.1279407 +e_TIMECES
      (1,459 missing values generated)

853 .
854 .
855 . su bayes1CES

```

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1CES	10,620	-.12722	.1112121	-.6282941	.2223563

```
856 .
857 .
858 . su bayes1CES if HNDwave==1,det
```

bayes1CES				
	Percentiles	Smallest		
1%	-.4401833	-.6282941		
5%	-.3371408	-.5566962		
10%	-.2831894	-.5534463	Obs	3,028
25%	-.1871673	-.5395759	Sum of wgt.	3,028
50%	-.110424		Mean	-.1279407
		Largest	Std. dev.	.1101825
75%	-.0499281	.2054381		
90%	-.0092219	.2077951	Variance	.0121402
95%	.0120952	.2212858	Skewness	-.7375311
99%	.085207	.2223563	Kurtosis	3.796309

```
859 . su bayes1CES if HNDwave==3,det
```

bayes1CES				
	Percentiles	Smallest		
1%	-.4478911	-.5566962		
5%	-.3384229	-.5534463		
10%	-.2811071	-.5395759	Obs	2,399
25%	-.185408	-.5324442	Sum of wgt.	2,399
50%	-.1063404		Mean	-.1257214
		Largest	Std. dev.	.111613
75%	-.0460021	.2054381		
90%	-.0074193	.2077951	Variance	.0124575
95%	.0160277	.2212858	Skewness	-.7270684
99%	.0953117	.2223563	Kurtosis	3.795737

```
860 .
861 .
862 . histogram bayes1CES if HNDwave==1
      (bin=34, start=-.62829405, width=.02501913)

863 .
864 .
865 .
866 . **CES_DA**
867 .
868 . xtmixed CES_DA timew1w3w4 ||HNDID: timew1w3w4, cov(un)
```

Performing EM optimization:

Performing gradient-based optimization:

```
Iteration 0: Log likelihood = -20603.873
Iteration 1: Log likelihood = -20568.841
Iteration 2: Log likelihood = -20566.666
Iteration 3: Log likelihood = -20566.443
Iteration 4: Log likelihood = -20566.405
Iteration 5: Log likelihood = -20566.404
```

Computing standard errors:

Mixed-effects ML regression
Group variable: **HNDID**

Number of obs = **7,099**
Number of groups = **3,058**
Obs per group:
 min = **1**
 avg = **2.3**
 max = **3**
Wald chi2(1) = **44.66**
Prob > chi2 = **0.0000**

Log likelihood = **-20566.404**

CES_DA	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.075786	.0113402	-6.68	0.000	-.0980124	-.0535595
_cons	4.82739	.0921623	52.38	0.000	4.646755	5.008025

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0690563	.	.	.
sd(_cons)	3.891876	.	.	.
corr(timew1w3w4,_cons)	-.9999992	.	.	.
sd(Residual)	3.315684	.	.	.

LR test vs. linear model: chi2(3) = **1614.66** Prob > chi2 = **0.0000**

Note: LR test is conservative and provided only for reference.

```
869 .
870 .
871 . capture drop e_consCES_DA e_TIMECES_DA

872 . predict e_TIMECES_DA e_consCES_DA, reffects level(HNDID)
(1,389 missing values generated)
(1,389 missing values generated)

873 .
874 . estat ic
```

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	7,099	.	-20566.4	2	41136.81	41150.54

Note: BIC uses N = number of observations. See [R] IC note.

```
875 .
```

876 . capture drop bayes1CES_DA

877 . gen bayes1CES_DA= -.075786 +e_TIMECES_DA
(1,389 missing values generated)

878 .

879 .

880 . su bayes1CES_DA

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1CES_DA	10,690	-.0756385	.059132	-.312223	-.0076478

881 .

882 .

883 . su bayes1CES_DA if HNDwave==1,det

bayes1CES_DA					
	Percentiles	Smallest			
1%	-.2493804	-.312223			
5%	-.1945109	-.3003779			
10%	-.1639393	-.2792588	Obs	3,058	
25%	-.1084046	-.2754567	Sum of wgt.	3,058	
50%	-.0594996		Mean	-.075786	
		Largest	Std. dev.	.0584691	
75%	-.0276845	-.0077714			
90%	-.0142135	-.0077587	Variance	.0034186	
95%	-.008857	-.007746	Skewness	-1.078277	
99%	-.0082223	-.0076478	Kurtosis	3.620301	

884 . su bayes1CES_DA if HNDwave==3,det

bayes1CES_DA					
	Percentiles	Smallest			
1%	-.2530487	-.312223			
5%	-.1975328	-.3003779			
10%	-.1666555	-.2792588	Obs	2,408	
25%	-.1084613	-.2754567	Sum of wgt.	2,408	
50%	-.0596093		Mean	-.0756838	
		Largest	Std. dev.	.060226	
75%	-.0271471	-.0077714			
90%	-.0138288	-.0077587	Variance	.0036272	
95%	-.0085932	-.007746	Skewness	-1.082558	
99%	-.00817	-.0076478	Kurtosis	3.610137	

885 .

886 .

```

887 . histogram bayes1CES_DA if HNDwave==1
      (bin=34, start=-.31222299, width=.00895809)

888 .
889 .
890 .
891 . **CES_SC**
892 .
893 . xtmixed CES_SC timew1w3w4 ||HNDID: timew1w3w4, cov(un)

```

Performing EM optimization:

Performing gradient-based optimization:

```

Iteration 0: Log likelihood = -20107.431
Iteration 1: Log likelihood = -20078.729
Iteration 2: Log likelihood = -20077.807
Iteration 3: Log likelihood = -20077.789
Iteration 4: Log likelihood = -20077.789

```

Computing standard errors:

Mixed-effects ML regression
Group variable: **HNDID**

Number of obs = **7,099**
Number of groups = **3,058**
Obs per group:

min = **1**
avg = **2.3**
max = **3**

Wald chi2(1) = **51.57**
Prob > chi2 = **0.0000**

Log likelihood = **-20077.789**

CES_SC	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.0806016	.0112242	-7.18	0.000	-.1026007	-.0586025
_cons	6.994053	.0816427	85.67	0.000	6.834036	7.154069

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.1381727	.0415158	.0766774	.2489872
sd(_cons)	3.219574	.0900939	3.047748	3.401087
corr(timew1w3w4,_cons)	-.4052348	.0822736	-.5530973	-.2326224
sd(Residual)	3.192472	.0485514	3.098717	3.289063

LR test vs. linear model: chi2(3) = **1161.47** Prob > chi2 = **0.0000**

Note: LR test is conservative and provided only for reference.


```

894 .
895 .
896 . capture drop e_consCES_SC e_TIMECES_SC

897 . predict e_TIMECES_SC e_consCES_SC, reffects level(HNDID)
      (1,389 missing values generated)
      (1,389 missing values generated)

898 .
899 . estat ic

```

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	7,099	.	-20077.79	6	40167.58	40208.78

Note: BIC uses N = number of observations. See [\[R\] IC note](#).

```

900 .
901 . capture drop bayes1CES_SC

902 . gen bayes1CES_SC= -.0806016 +e_TIMECES_SC
      (1,389 missing values generated)

903 .
904 .
905 . su bayes1CES_SC

```

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1CES_SC	10,690	-.0805261	.0415586	-.2841231	.0506789

```

906 .
907 .
908 . su bayes1CES_SC if HNDwave==1,det

```

bayes1CES_SC					
	Percentiles	Smallest			
1%	-.1861448	-.2841231			
5%	-.1557833	-.229719			
10%	-.1366988	-.2235658	Obs	3,058	
25%	-.1069611	-.2194345	Sum of wgt.	3,058	
50%	-.0784511		Mean	-.0806016	
		Largest	Std. dev.	.0412628	
75%	-.0509052	.0218509			
90%	-.0281804	.0257232	Variance	.0017026	
95%	-.0192699	.0382957	Skewness	-.4600571	
99%	-.0045237	.0506789	Kurtosis	3.133082	

909 . su bayes1CES_SC if HNDwave==3, det

bayes1CES_SC					
	Percentiles	Smallest			
1%	-.1864711	-.229719			
5%	-.1560849	-.2235658			
10%	-.1368594	-.2194345	Obs		2,408
25%	-.1063582	-.2127995	Sum of wgt.		2,408
50%	-.0766746		Mean		-.0802532
		Largest	Std. dev.		.0415938
75%	-.0502262	.0210982			
90%	-.0284054	.0218509	Variance		.00173
95%	-.0191254	.0382957	Skewness		-.4446882
99%	-.0029759	.0506789	Kurtosis		2.99746

910 .

911 .

912 . histogram bayes1CES_SC if HNDwave==1
(bin=34, start=-.28412309, width=.00984712)

913 .

914 . **CES_IP**

915 .

916 . xtmixed CES_IP timew1w3w4 ||HNDID: timew1w3w4, cov(un)

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: Log likelihood = -11963.658
Iteration 1: Log likelihood = -11924.068
Iteration 2: Log likelihood = -11920.932
Iteration 3: Log likelihood = -11920.714
Iteration 4: Log likelihood = -11920.687
Iteration 5: Log likelihood = -11920.687

Computing standard errors:
standard-error calculation has failed

Mixed-effects ML regression
Group variable: HNDID

Number of obs = 7,099
Number of groups = 3,058
Obs per group:
min = 1
avg = 2.3
max = 3
Wald chi2(1) = 16.30
Prob > chi2 = 0.0001

Log likelihood = -11920.687

CES_IP	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.0144396	.0035761	-4.04	0.000	-.0214486	-.0074305
_cons	1.054208	.0253822	41.53	0.000	1.00446	1.103956

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0144438	.	.	.
sd(_cons)	.9361761	.	.	.
corr(timew1w3w4,_cons)	-1	.	.	.
sd(Residual)	1.061049	.	.	.

LR test vs. linear model: $\chi^2(3) = 841.60$ Prob > $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

Warning: Standard-error calculation failed.

```

917 .
918 .
919 . capture drop e_cons_CES_IP e_TIMECES_IP

920 . predict e_TIME_CES_IP e_cons_CES_IP, reffects level(HNDID)
(1,389 missing values generated)
(1,389 missing values generated)

921 .
922 . estat ic

```

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	7,099	.	-11920.69	2	23845.37	23859.11

Note: BIC uses N = number of observations. See [\[R\] IC note](#).

```

923 .
924 . capture drop bayes1CES_IP

925 . gen bayes1CES_IP= -.0144396 +e_TIME_CES_IP
(1,389 missing values generated)

926 .
927 .
928 . su bayes1CES_IP

```

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1CES_IP	10,690	-.0143708	.0112845	-.0697646	-.0032558

```

929 .
930 .

```

931 . su bayes1CES_IP if HNDwave==1,det

bayes1CES_IP				
	Percentiles	Smallest		
1%	-.0480206	-.0697646		
5%	-.0367633	-.0697564		
10%	-.0298647	-.0661646	Obs	3,058
25%	-.0208269	-.0659743	Sum of wgt.	3,058
50%	-.0105754		Mean	-.0144396
		Largest	Std. dev.	.011162
75%	-.0055326	-.0032836		
90%	-.0034694	-.0032829	Variance	.0001246
95%	-.0034266	-.0032559	Skewness	-1.33933
99%	-.0033109	-.0032558	Kurtosis	4.736336

932 . su bayes1CES_IP if HNDwave==3,det

bayes1CES_IP				
	Percentiles	Smallest		
1%	-.0505922	-.0697646		
5%	-.0370135	-.0697564		
10%	-.0298965	-.0661646	Obs	2,408
25%	-.020715	-.0659743	Sum of wgt.	2,408
50%	-.0106714		Mean	-.0142882
		Largest	Std. dev.	.0113657
75%	-.0048162	-.0032836		
90%	-.003453	-.0032829	Variance	.0001292
95%	-.0034107	-.0032559	Skewness	-1.362528
99%	-.0033014	-.0032558	Kurtosis	4.890318

933 .

934 .

935 . histogram bayes1CES_IP if HNDwave==1
(bin=34, start= -.06976456, width=.00195614)

936 .

937 . **CES_WB**

938 .

939 . xtmixed CES_WB timew1w3w4 ||HNDID: timew1w3w4, cov(un)

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: Log likelihood = -17406.468

Iteration 1: Log likelihood = -17386.301

Iteration 2: Log likelihood = -17386.139

Iteration 3: Log likelihood = -17386.139

Computing standard errors:

Mixed-effects ML regression
Group variable: **HNDID**

Number of obs = **7,099**
Number of groups = **3,058**
Obs per group:
 min = **1**
 avg = **2.3**
 max = **3**
Wald chi2(1) = **36.54**
Prob > chi2 = **0.0000**

Log likelihood = **-17386.139**

CES_WB	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.0491547	.0081316	-6.04	0.000	-.0650923	-.0332171
_cons	9.345061	.0536589	174.16	0.000	9.239892	9.450231

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.1553915	.0194933	.1215198	.1987043
sd(_cons)	2.031183	.0634125	1.910623	2.15935
corr(timew1w3w4,_cons)	-.2370659	.0740837	-.3761012	-.0875902
sd(Residual)	2.177357	.0344455	2.110881	2.245927

LR test vs. linear model: chi2(3) = **890.63** Prob > chi2 = **0.0000**

Note: LR test is conservative and provided only for reference.

```
940 .
941 .
942 . capture drop e_cons_CES_WB e_TIMECES_WB

943 . predict e_TIMECES_WB e_cons_CES_WB, reffects level(HNDID)
(1,389 missing values generated)
(1,389 missing values generated)

944 .
945 . estat ic
```

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	7,099	.	-17386.14	6	34784.28	34825.48

Note: BIC uses N = number of observations. See [R] IC note.

```
946 .
```

947 . capture drop bayes1CES_WB

948 . gen bayes1CES_WB= -.0491547 +e_TIMECES_WB
(1,389 missing values generated)

949 .

950 .

951 . su bayes1CES_WB

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1CES_WB	10,690	-.0496128	.0559275	-.2831072	.2008129

952 .

953 .

954 . su bayes1CES_WB if HNDwave==1,det

bayes1CES_WB				
Percentiles	Smallest			
1%	-.2146019	-.2831072		
5%	-.1456454	-.2791547		
10%	-.1131017	-.2750199	Obs	3,058
25%	-.0715596	-.2672825	Sum of wgt.	3,058
50%	-.0462427		Mean	-.0491547
		Largest	Std. dev.	.0539053
75%	-.0195747	.1950778		
90%	.007636	.1953543	Variance	.0029058
95%	.0297079	.1982135	Skewness	-.317404
99%	.0814298	.2008129	Kurtosis	5.56077

955 . su bayes1CES_WB if HNDwave==3,det

bayes1CES_WB				
Percentiles	Smallest			
1%	-.2209693	-.2831072		
5%	-.1532451	-.2791547		
10%	-.120123	-.2750199	Obs	2,408
25%	-.0790599	-.2672825	Sum of wgt.	2,408
50%	-.0457797		Mean	-.0505188
		Largest	Std. dev.	.0566731
75%	-.0186531	.1950778		
90%	.007947	.1953543	Variance	.0032118
95%	.0291976	.1982135	Skewness	-.3320984
99%	.0863636	.2008129	Kurtosis	5.240606

956 .

957 .

```

958 . histogram bayes1CES_WB if HNDwave==1
    (bin=34, start=-.28310716, width=.01423294)

959 .
960 .
961 . **HCY**
962 . capture drop LnHCys

963 . gen LnHCys=ln(HCys)
    (7,853 missing values generated)

964 .
965 . xtmixed LnHCys timew1w3w4 ||HNDID: timew1w3w4, cov(un)

```

Performing EM optimization:

Performing gradient-based optimization:

```

Iteration 0:  Log likelihood = -672.99393
Iteration 1:  Log likelihood = -659.64166
Iteration 2:  Log likelihood = -658.91821
Iteration 3:  Log likelihood = -658.88234
Iteration 4:  Log likelihood = -658.88185
Iteration 5:  Log likelihood = -658.88185

```

Computing standard errors:

Mixed-effects ML regression
Group variable: **HNDID**

```

Number of obs    = 4,226
Number of groups = 1,576
Obs per group:
    min = 1
    avg = 2.7
    max = 3
Wald chi2(1)     = 419.29
Prob > chi2      = 0.0000

```

Log likelihood = -658.88185

LnHCys	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	.0185574	.0009063	20.48	0.000	.0167811	.0203336
_cons	2.155515	.0084456	255.22	0.000	2.138962	2.172068

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Unstructured				
sd(timew1w3w4)	.0053417	.0052747	.0007712	.0370003
sd(_cons)	.2743762	.0076972	.2596972	.2898848
corr(timew1w3w4,_cons)	.3854822	.5768318	-.7265621	.9395705
sd(Residual)	.2000513	.0037809	.1927765	.2076007

LR test vs. linear model: chi2(3) = 1677.50 Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

```

966 .
967 .
968 . capture drop e_cons_LnHcys e_TIME_LnHcys

969 . predict e_TIME_LnHcys e_cons_LnHcys, reffects level(HNDID)
      (6,046 missing values generated)
      (6,046 missing values generated)

970 .
971 . estat ic

```

Akaike's information criterion and Bayesian information criterion

Model	N	ll(null)	ll(model)	df	AIC	BIC
.	4,226	.	-658.8819	6	1329.764	1367.858

Note: BIC uses N = number of observations. See [\[R\] IC note](#).

```

972 .
973 . capture drop bayes1HCys

974 . gen bayes1HCys= .0185574 + e_TIME_LnHcys
      (6,046 missing values generated)

975 .
976 .
977 . su bayes1HCys

```

Variable	Obs	Mean	Std. dev.	Min	Max
bayes1HCys	6,033	.0185374	.0022863	.0130147	.034075

```

978 .
979 .
980 . su bayes1HCys if HNDwave==1,det

```

bayes1HCys				
Percentiles	Smallest			
1%	.0141261	.0130147		
5%	.0152401	.0131037		
10%	.0159896	.0132496	Obs	1,576
25%	.0170537	.0133357	Sum of wgt.	1,576
50%	.0183289		Mean	.0185574
		Largest	Std. dev.	.002299
75%	.0197171	.0296737		
90%	.0213793	.0296941	Variance	5.29e-06
95%	.0226486	.0303369	Skewness	1.05313
99%	.025649	.034075	Kurtosis	6.101011

981 . su bayes1HCys if HNDwave==3,det

bayes1HCys				
	Percentiles	Smallest		
1%	.0141261	.0130147		
5%	.0152376	.0131037		
10%	.0159867	.0132496	Obs	1,542
25%	.0170307	.0133357	Sum of wgt.	1,542
50%	.0183215		Mean	.0185359
		Largest	Std. dev.	.0022836
75%	.0196907	.0285485		
90%	.0213458	.0296941	Variance	5.21e-06
95%	.0226261	.0303369	Skewness	1.017795
99%	.0254272	.034075	Kurtosis	5.994339

982 .

983 .

984 . histogram bayes1HCys if HNDwave==1
(bin=31, start=.01301472, width=.00067936)

985 .

986 .

987 .

988 . save, replace
file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

989 .

990 . //STEP 16: COLLAPSE THE EMPIRICAL BAYES ESTIMATORS AND RE-MERGE WITH DATA//

991 .

992 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

993 .

994 . keep HNDID bayes1*

995 .

996 . save bayes1_depchange, replace
file bayes1_depchange.dta saved

997 .

998 . collapse (mean) bayes1*, by(HNDID)

999 .

1000 . save bayes1_depchange_collapse, replace
file bayes1_depchange_collapse.dta saved

1001 .

1002 . addstub bayes1*, stub(w1w3w4)

1003 .

```

1004 . sort HNDID

1005 . save, replace
      file bayes1_depchange_collapse.dta saved

1006 .
1007 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

1008 . capture drop _merge

1009 . sort HNDID

1010 . save, replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

1011 .
1012 . merge HNDID using bayes1_depchange_collapse
      (you are using old merge syntax; see \[D\] merge for new syntax)
      variable HNDID does not uniquely identify observations in the master data

1013 . tab _merge

```

_merge	Freq.	Percent	Cum.
3	12,079	100.00	100.00
Total	12,079	100.00	

```

1014 . capture drop _merge

1015 . sort HNDID

1016 . save, replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

1017 .
1018 .
1019 . //STEP 17: CREATE STEPWISE SELECTION PROCESS FOR FLOWCHART//
1020 .
1021 . **Initial wave 1 sample: SAMPLE1**
1022 .
1023 . capture drop sample1

1024 . gen sample1=1 if w1Age~=..

1025 . replace sample1=0 if sample1~=1
      (0 real changes made)

1026 .
1027 . tab sample1

```

sample1	Freq.	Percent	Cum.
1	12,079	100.00	100.00
Total	12,079	100.00	

1028 . tab sample1 if HNDwave==1

sample1	Freq.	Percent	Cum.
1	3,720	100.00	100.00
Total	3,720	100.00	

1029 .

1030 . **Sample with complete w1 HCys load exposure data: SAMPLE2**

1031 .

1032 . capture drop sample2

1033 . gen sample2=1 if w1HCys~.

(6,495 missing values generated)

1034 . replace sample2=0 if sample2~=1

(6,495 real changes made)

1035 .

1036 . tab sample2

sample2	Freq.	Percent	Cum.
0	6,495	53.77	53.77
1	5,584	46.23	100.00
Total	12,079	100.00	

1037 . tab sample2 if HNDwave==1

sample2	Freq.	Percent	Cum.
0	2,260	60.75	60.75
1	1,460	39.25	100.00
Total	3,720	100.00	

1038 .

1039 .

1040 . save, replace

file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

1041 .

1042 . **Samples with complete CES-D data at waves 1 and/or 3 and/or 4: SAMPLE3**

1043 .

1044 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

1045 .

1046 . keep HNDID sample_CES

```

1047 .
1048 . save selectCES, replace
      file selectCES.dta saved

1049 . collapse (mean) sample_CES, by(HNDID)

1050 .
1051 . save sampleCES_collapse, replace
      file sampleCES_collapse.dta saved

1052 . sort HNDID

1053 . addstub sample_CES, stub(w1w3w4)

1054 . save, replace
      file sampleCES_collapse.dta saved

1055 .
1056 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

1057 . capture drop _merge

1058 . sort HNDID

1059 .
1060 . merge HNDID using sampleCES_collapse
      (you are using old merge syntax; see \[D\] merge for new syntax)
      variable HNDID does not uniquely identify observations in the master data

1061 . tab _merge

```

_merge	Freq.	Percent	Cum.
3	12,079	100.00	100.00
Total	12,079	100.00	

```

1062 . capture drop _merge

1063 . sort HNDID

1064 .
1065 . save, replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

1066 .
1067 .
1068 . capture drop sample3obs

1069 . gen sample3obs=.
      (12,079 missing values generated)

```

```

1070 . replace sample3obs=1 if w1w3w4sample_CES>0 & w1w3w4sample_CES~=. & sample_CES==1 & HNDwave==1 | w1w3w4sample_CES>0 & w1w3w4sample_CES~=. & sample_CES==1 & HNDwave==4
      (7,592 real changes made)

1071 . replace sample3obs=0 if sample3obs~=1
      (4,487 real changes made)

1072 .
1073 . capture drop sample3part

1074 . gen sample3part=.
      (12,079 missing values generated)

1075 . replace sample3part=1 if w1w3w4sample_CES>0 & w1w3w4sample_CES~=. & HNDwave==1 | w1w3w4sample_CES>0 & w1w3w4sample_CES~=. & HNDwave==4
      (7,592 real changes made)

1076 . replace sample3part=0 if sample3part~=1
      (4,487 real changes made)

1077 .
1078 . tab sample3obs if HNDwave==1 | HNDwave==3 | HNDwave==4

```

sample3obs	Freq.	Percent	Cum.
0	767	9.18	9.18
1	7,592	90.82	100.00
Total	8,359	100.00	

```

1079 . tab sample3part if HNDwave==1

```

sample3part	Freq.	Percent	Cum.
0	692	18.60	18.60
1	3,028	81.40	100.00
Total	3,720	100.00	

```

1080 .
1081 .
1082 . xtmixed CES timew1w3w4 || HNDID: timew1w3w4

```

Performing EM optimization:

Performing gradient-based optimization:

```

Iteration 0: Log likelihood = -26070.03
Iteration 1: Log likelihood = -26028.825
Iteration 2: Log likelihood = -26026.076
Iteration 3: Log likelihood = -26025.883
Iteration 4: Log likelihood = -26025.877
Iteration 5: Log likelihood = -26025.877

```

Computing standard errors:

Mixed-effects ML regression
Group variable: **HNDID**

Number of obs = **6,997**
Number of groups = **3,028**
Obs per group:
 min = **1**
 avg = **2.3**
 max = **3**
Wald chi2(1) = **23.30**
Prob > chi2 = **0.0000**

Log likelihood = **-26025.877**

CES	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.1241456	.0257213	-4.83	0.000	-.1745585	-.0737327
_cons	15.62451	.2063698	75.71	0.000	15.22003	16.02899

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3w4)	1.29e-07	5.47e-08	5.60e-08	2.96e-07
sd(_cons)	8.617701	.1530456	8.322898	8.922946
sd(Residual)	7.408574	.0827102	7.248226	7.57247

LR test vs. linear model: chi2(2) = **1819.31** Prob > chi2 = **0.0000**

Note: LR test is conservative and provided only for reference.

```

1083 .
1084 . save, replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

1085 .
1086 .
1087 . **Samples with complete depressive symptoms data at waves 1 and/or 3 and HCys data at wave 1: SAMPLE4 SERIES**
1088 .
1089 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG,clear

1090 .
1091 .
1092 . **sample4: N=2,298; N'=5,548, k=2.4**
1093 .
1094 .
1095 . capture drop sample4obs

1096 . gen sample4obs=.
      (12,079 missing values generated)

1097 . replace sample4obs=1 if sample3obs==1 & w1HCys~=.
      (4,124 real changes made)

```

```

1098 . replace sample4obs=0 if sample4obs~=1
      (7,955 real changes made)

1099 .
1100 . capture drop sample4part

1101 . gen sample4part=1 if sample3part==1 & w1HCys~=.
      (7,955 missing values generated)

1102 . replace sample4part=0 if sample4part~=1
      (7,955 real changes made)

1103 .
1104 . tab sample4obs if HNDwave==1 | HNDwave==3

```

sample4obs	Freq.	Percent	Cum.
0	3,300	53.33	53.33
1	2,888	46.67	100.00
Total	6,188	100.00	

```

1105 . tab sample4part if HNDwave==1

```

sample4part	Freq.	Percent	Cum.
0	2,260	60.75	60.75
1	1,460	39.25	100.00
Total	3,720	100.00	

```

1106 .
1107 .
1108 .
1109 . xtmixed CES c.timew1w3##c.w1HCys || HNDID: timew1w3w4

```

Performing EM optimization:

Performing gradient-based optimization:

```

Iteration 0: Log likelihood = -14766.093
Iteration 1: Log likelihood = -14748.932
Iteration 2: Log likelihood = -14747.96
Iteration 3: Log likelihood = -14747.919
Iteration 4: Log likelihood = -14747.918

```

Computing standard errors:

Mixed-effects ML regression
Group variable: **HNDID**

Log likelihood = **-14747.918**

```

Number of obs    = 4,015
Number of groups = 1,460
Obs per group:
    min = 1
    avg = 2.8
    max = 3
Wald chi2(3)     = 12.77
Prob > chi2      = 0.0052

```

CES	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.0812394	.0664584	-1.22	0.222	-.2114956	.0490167
w1HCys	.0431124	.0541301	0.80	0.426	-.0629807	.1492055
c.timew1w3w4#c.w1HCys	-.0034461	.0064178	-0.54	0.591	-.0160247	.0091325
_cons	14.00033	.5703457	24.55	0.000	12.88247	15.11818

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3w4)	.0000776	.0133455	3.0e-151	2.0e+142
sd(_cons)	8.483653	.2013171	8.098114	8.887547
sd(Residual)	7.160936	.1001956	6.967225	7.360033

LR test vs. linear model: $\chi^2(2) = 1222.72$ Prob > $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

1110 . xtmixed CES_DA c.timew1w3##c.w1HCys || HNDID: timew1w3w4

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: Log likelihood = -11482.645
 Iteration 1: Log likelihood = -11456.179
 Iteration 2: Log likelihood = -11455.084
 Iteration 3: Log likelihood = -11455.08
 Iteration 4: Log likelihood = -11455.08

Computing standard errors:

Mixed-effects ML regression
 Group variable: HNDID

Number of obs = 4,032
 Number of groups = 1,460
 Obs per group:

min = 1
 avg = 2.8
 max = 3

Wald $\chi^2(3) = 28.09$
 Prob > $\chi^2 = 0.0000$

Log likelihood = -11455.08

CES_DA	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.0623699	.0294034	-2.12	0.034	-.1199995	-.0047402
w1HCys	.0110212	.0230789	0.48	0.633	-.0342127	.056255
c.timew1w3w4#c.w1HCys	-.0014315	.002841	-0.50	0.614	-.0069997	.0041367
_cons	4.378544	.2430675	18.01	0.000	3.902141	4.854948

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3w4)	9.94e-11	5.53e-11	3.34e-11	2.96e-10
sd(_cons)	3.527891	.086398	3.362554	3.701358
sd(Residual)	3.173729	.0443067	3.088067	3.261767

LR test vs. linear model: $\chi^2(2) = 1070.17$ Prob > $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

1111 . xtmixed CES_IP c.timew1w3##c.w1HCys || HNDID: timew1w3w4

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: Log likelihood = **-6520.5602**
Iteration 1: Log likelihood = **-6497.8931**
Iteration 2: Log likelihood = **-6497.1181**
Iteration 3: Log likelihood = **-6497.1174**
Iteration 4: Log likelihood = **-6497.1174**

Computing standard errors:

Mixed-effects ML regression
Group variable: **HNDID**

Number of obs = **4,032**
Number of groups = **1,460**
Obs per group:
min = **1**
avg = **2.8**
max = **3**
Wald $\chi^2(3) = 7.14$
Prob > $\chi^2 = 0.0676$

Log likelihood = **-6497.1174**

CES_IP	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.006571	.0092555	-0.71	0.478	-.0247114	.0115693
w1HCys	.0070484	.006239	1.13	0.259	-.0051798	.0192766
c.timew1w3w4#c.w1HCys	-.0004704	.0008944	-0.53	0.599	-.0022235	.0012826
_cons	.8769231	.0656475	13.36	0.000	.7482563	1.00559

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3w4)	2.60e-12	1.55e-12	8.09e-13	8.37e-12
sd(_cons)	.8228982	.024317	.7765916	.8719659
sd(Residual)	1.003451	.0139672	.9764454	1.031203

LR test vs. linear model: $\chi^2(2) = 551.07$ Prob > $\chi^2 = 0.0000$

Note: LR test is conservative and provided only for reference.

1112 . xtmixed CES_SC c.timew1w3##c.w1HCys || HNDID: timew1w3w4

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: Log likelihood = -11264.009
 Iteration 1: Log likelihood = -11246.754
 Iteration 2: Log likelihood = -11245.849
 Iteration 3: Log likelihood = -11245.806
 Iteration 4: Log likelihood = -11245.805
 Iteration 5: Log likelihood = -11245.805

Computing standard errors:

Mixed-effects ML regression
 Group variable: HNDID

Number of obs = 4,032
 Number of groups = 1,460
 Obs per group:
 min = 1
 avg = 2.8
 max = 3
 Wald chi2(3) = 36.53
 Prob > chi2 = 0.0000

Log likelihood = -11245.805

CES_SC	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.0840625	.0288088	-2.92	0.004	-.1405267	-.0275983
w1HCys	.0166912	.0211482	0.79	0.430	-.0247585	.0581408
c.timew1w3w4#c.w1HCys	.0000613	.0027837	0.02	0.982	-.0053947	.0055173
_cons	6.539215	.2226508	29.37	0.000	6.102827	6.975602

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3w4)	7.74e-08	4.14e-08	2.72e-08	2.21e-07
sd(_cons)	3.062848	.0797567	2.91045	3.223226
sd(Residual)	3.114738	.0433526	3.030917	3.200877

LR test vs. linear model: chi2(2) = 846.32

Prob > chi2 = 0.0000

Note: LR test is conservative and provided only for reference.

1113 . xtmixed CES_WB c.timew1w3##c.w1HCys || HNDID: timew1w3w4

Performing EM optimization:

Performing gradient-based optimization:

Iteration 0: Log likelihood = -9547.8178
 Iteration 1: Log likelihood = -9542.9612
 Iteration 2: Log likelihood = -9542.9321
 Iteration 3: Log likelihood = -9542.9321

Computing standard errors:

Mixed-effects ML regression
Group variable: **HNDID**

Number of obs = **4,032**
Number of groups = **1,460**
Obs per group:
 min = **1**
 avg = **2.8**
 max = **3**
Wald chi2(3) = **33.85**
Prob > chi2 = **0.0000**

Log likelihood = **-9542.9321**

CES_WB	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
timew1w3w4	-.0734598	.0205602	-3.57	0.000	-.1137571	-.0331625
w1HCys	-.0070254	.0129428	-0.54	0.587	-.0323928	.018342
c.timew1w3w4#c.w1HCys	.0017226	.0019799	0.87	0.384	-.0021579	.0056031
_cons	9.790284	.1362189	71.87	0.000	9.5233	10.05727

Random-effects parameters	Estimate	Std. err.	[95% conf. interval]	
HNDID: Independent				
sd(timew1w3w4)	.1410697	.0153832	.1139233	.1746845
sd(_cons)	1.746625	.0543134	1.643351	1.856388
sd(Residual)	2.036133	.0330576	1.972361	2.101966

LR test vs. linear model: chi2(2) = **640.60** Prob > chi2 = **0.0000**

Note: LR test is conservative and provided only for reference.

```

1114 .
1115 .
1116 . save HANDLS_PAPER64_HCYDEPANXIETY_LONG, replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

1117 .
1118 .
1119 . //STEP 18: CREATE INVERSE MILLS RATIOS FOR FINAL SELECTED SAMPLES FOR MIXED-EFFECTS REGRESSION MODELS//
1120 .
1121 . use HANDLS_PAPER64_HCYDEPANXIETY_LONG, clear

1122 .
1123 .
1124 . xi:probit sample4obs w1Age Race PovStat Sex

```

```

Iteration 0: Log likelihood = -7754.3822
Iteration 1: Log likelihood = -7710.9748
Iteration 2: Log likelihood = -7710.9676
Iteration 3: Log likelihood = -7710.9676

```

Probit regression

Number of obs = **12,079**
LR chi2(4) = **86.83**
Prob > chi2 = **0.0000**
Pseudo R2 = **0.0056**

Log likelihood = **-7710.9676**

sample4obs	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
w1Age	-.0041239	.0012809	-3.22	0.001	-.0066345	-.0016133
Race	-.1066353	.0242149	-4.40	0.000	-.1540957	-.059175
PovStat	-.1559099	.0244117	-6.39	0.000	-.2037559	-.1080638
Sex	-.0820968	.0238142	-3.45	0.001	-.1287718	-.0354217
_cons	.2962679	.0887148	3.34	0.001	.1223901	.4701456

```

1125 .
1126 . capture drop p1CES

1127 . predict p1CES, xb

1128 .
1129 . capture drop phiCES

1130 . capture drop caphiCES

1131 . capture drop invmillsCES

1132 .
1133 . gen phiCES=(1/sqrt(2*_pi))*exp(-(p1CES^2/2))

1134 .
1135 . egen caphiCES=std(p1CES)

1136 .
1137 . capture drop invmillsCES

1138 . gen invmillsCES=phiCES/caphiCES

1139 .
1140 .
1141 . su invmillsCES

```

Variable	Obs	Mean	Std. dev.	Min	Max
invmillsCES	12,079	.7446791	45.62387	-256.8285	3476.2

```

1142 .
1143 . save , replace
      file HANDLS_PAPER64_HCYDEPANXIETY_LONG.dta saved

1144 .
1145 .
1146 . capture log close

```