



```

1 .
2 . clear

3 . set more off

4 . cd "C:\Users\wonja\Documents\GitHub\14.320\PS3"
   C:\Users\wonja\Documents\GitHub\14.320\PS3

5 . use NHIS2009_clean

6 .
7 . * Problem 3.(a)
8 .
9 . * select non-missings
10 .      keep if marradult==1 & perweight!=0
    (50,662 observations deleted)

11 .      by serial: egen hi_hsb = mean(hi_hsb1)
    (207 missing values generated)

12 .      keep if hi_hsb!=. & hi!=.
    (207 observations deleted)

13 .      by serial: egen female = total(fml)

14 .      keep if female==1
    (31 observations deleted)

15 .      drop female

16 .
17 . * Josh's sample selection criteria
18 .      gen angrist = ( age>=26 & age<=59 & marradult==1 & adltempl>=1 )

19 .      keep if angrist==1
    (9,613 observations deleted)

20 .      // drop single-person HHS
21 .      by serial: gen n = _N

22 .      keep if n>1
    (1,331 observations deleted)

23 .
24 . eststo: reg hlth hi if fml == 0 [aw=perweight]
    (sum of wgt is 34,118,563)

```

Source	SS	df	MS	Number of obs	=	9,395
Model	108.591763	1	108.591763	F(1, 9393)	=	122.74
Residual	8310.31193	9,393	.884734582	Prob > F	=	0.0000
				R-squared	=	0.0129
				Adj R-squared	=	0.0128
Total	8418.90369	9,394	.896200095	Root MSE	=	.9406

hlth	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
hi	.3132452	.0282743	11.08	0.000	.2578214	.368669
_cons	3.695654	.0262753	140.65	0.000	3.644149	3.74716

(est1 stored)

```

25 . esttab using PS3-3a.tex, replace compress cells("b(label(coef) fmt(a3) star)
> ci(par fmt(a3))" t(par fmt(a3))) label mtitles("Health status") varlabels(hi
> "Covered by insurance" _cons "Constant") nonumber stats(N, fmt(%9.0gc) label(
> Observations)) addnote("t statistics in parentheses" "@starlegend")
(output written to PS3-3a.tex)

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26 . eststo clear

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27 .

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28 . * Problem 3.(b)

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29 .

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30 . eststo: reg hlth hi age if fml == 0 [aw=perweight]
(sum of wgt is 34,118,563)

```

Source	SS	df	MS	Number of obs	=	9,395
Model	373.144672	2	186.572336	F(2, 9392)	=	217.79
Residual	8045.75902	9,392	.856660883	Prob > F	=	0.0000
				R-squared	=	0.0443
				Adj R-squared	=	0.0441
Total	8418.90369	9,394	.896200095	Root MSE	=	.92556

hlth	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
hi	.3658295	.0279826	13.07	0.000	.3109775 .4206814
age	-.019377	.0011026	-17.57	0.000	-.0215384 -.0172156
_cons	4.495212	.0523317	85.90	0.000	4.39263 4.597793

(est1 stored)

```

31 . eststo: reg hlth hi age yedu if fml == 0 [aw=perweight]
(sum of wgt is 34,118,563)

```

Source	SS	df	MS	Number of obs	=	9,395
Model	792.761587	3	264.253862	F(3, 9391)	=	325.41
Residual	7626.1421	9,391	.812069226	Prob > F	=	0.0000
				R-squared	=	0.0942
				Adj R-squared	=	0.0939
Total	8418.90369	9,394	.896200095	Root MSE	=	.90115

hlth	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
hi	.1450738	.0289237	5.02	0.000	.0883772 .2017704
age	-.0189735	.0010737	-17.67	0.000	-.0210782 -.0168688
yedu	.0800721	.0035225	22.73	0.000	.0731673 .086977
_cons	3.552731	.0656894	54.08	0.000	3.423966 3.681497

(est2 stored)

```

32 . eststo: reg hlth hi age yedu inc if fml == 0 [aw=perweight]
(sum of wgt is 34,118,563)

```

Source	SS	df	MS	Number of obs	=	9,395
Model	1020.72787	4	255.181966	F(4, 9390)	=	323.89
Residual	7398.17582	9,390	.787878149	Prob > F	=	0.0000
				R-squared	=	0.1212
				Adj R-squared	=	0.1209
Total	8418.90369	9,394	.896200095	Root MSE	=	.88763

hlth	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
hi	.0192656	.029434	0.65	0.513	-.0384314 .0769625
age	-.0212503	.001066	-19.93	0.000	-.02334 -.0191607
yedu	.0564235	.0037378	15.10	0.000	.0490965 .0637504
inc	3.24e-06	1.90e-07	17.01	0.000	2.86e-06 3.61e-06
_cons	3.772314	.0659787	57.17	0.000	3.642982 3.901647

(est3 stored)

```
33 . esttab using PS3-3b.tex, replace compress cells(b(label(coef) fmt(a3) star) t
> (par fmt(a3))) label mtitles("" "Health status" "") varlabels(hi "Covered by
> insurance" yedu "Years of education" inc "Income" _cons "Constant") nonumber
> stats(N, fmt(%9.0gc) label(Observations)) addnote("t statistics in parenthese
> s" "@starlegend")
(output written to PS3-3b.tex)

34 . eststo clear

35 .
36 . log close
    name: <unnamed>
    log: C:\Users\wonja\Documents\GitHub\14.320\PS3\PS3-3.smc1
    log type: smc1
    closed on: 1 Apr 2021, 12:53:17
```
