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

```
  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 health uninsured if sex == 1
```

Source	SS	df	MS
Model	98.7315707	1	98.7315707
Residual	8423.39786	9,393	.896773966
Total	8522.12943	9,394	.90718857

Number of obs = 9,395
$F(1, 9393)$ = 110.10
Prob > F = 0.0000
R-squared = 0.0116
Adj R-squared = 0.0115
Root MSE = .94698

health	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
uninsured	-.2777127	.0264673	-10.49	0.000	-.3295943	-.2258311
_cons	2.578563	.0495989	51.99	0.000	2.481338	2.675787

(**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 varlabels(uninsured "Covered by insura
   > nce" _cons "Constant") nonumber stats(N, fmt(%9.0gc) label(Observations)) add
   > note("t statistics in parentheses" "@starlegend")
   (output written to PS3-3a.tex)

26 . eststo clear

27 .
28 . * Problem 3.(b)
29 .
30 . eststo: reg health uninsured age if sex == 1
```

Source	SS	df	MS
Model	347.434273	2	173.717137
Residual	8174.69516	9,392	.870389178
Total	8522.12943	9,394	.90718857

Number of obs = 9,395
F(2, 9392)   = 199.59
Prob > F   = 0.0000
R-squared   = 0.0408
Adj R-squared = 0.0406
Root MSE   = .93295

health	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
uninsured	-.3326014	.0262764	-12.66	0.000	-.3841089	-.281094
age	.0189746	.0011225	16.90	0.000	.0167743	.021175
_cons	1.850366	.0651419	28.41	0.000	1.722674	1.978058

```
(est1 stored)

31 . eststo: reg health uninsured age yedu if sex == 1
```

Source	SS	df	MS
Model	716.032755	3	238.677585
Residual	7806.09668	9,391	.831231677
Total	8522.12943	9,394	.90718857

Number of obs = 9,395
F(3, 9391)   = 287.14
Prob > F   = 0.0000
R-squared   = 0.0840
Adj R-squared = 0.0837
Root MSE   = .91172

health	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
uninsured	-.1265868	.0274791	-4.61	0.000	-.1804517	-.0727219
age	.0185387	.0010972	16.90	0.000	.016388	.0206894
yedu	-.0701384	.0033307	-21.06	0.000	-.0766674	-.0636095
_cons	2.448775	.0697144	35.13	0.000	2.31212	2.58543

```
(est2 stored)

32 . eststo: reg health uninsured age yedu inc if sex == 1
```

Source	SS	df	MS
Model	925.505667	4	231.376417
Residual	7596.62376	9,390	.809012115
Total	8522.12943	9,394	.90718857

Number of obs = 9,395
F(4, 9390)   = 286.00
Prob > F   = 0.0000
R-squared   = 0.1086
Adj R-squared = 0.1082
Root MSE   = .89945

health	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
uninsured	-.00728	.028105	-0.26	0.796	-.0623718	.0478118
age	.0204035	.0010886	18.74	0.000	.0182696	.0225373
yedu	-.0487491	.0035446	-13.75	0.000	-.0556973	-.0418009
inc	-3.10e-06	1.93e-07	-16.09	0.000	-3.48e-06	-2.72e-06
_cons	2.147955	.0712719	30.14	0.000	2.008247	2.287664

```
(est3 stored)
```

33 . esttab using PS3-3b.tex, replace compress cells(b(label(coef) fmt(a3) star) t
   > (par fmt(a3))) label varlabels(uninsured "Covered by insurance" yedu "Years o
   > f education" inc "Income" _cons "Constant") nonumber stats(N, fmt(%9.0gc) lab
   > el(Observations)) addnote("t statistics in parentheses" "@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.smcl
     log type: smcl
    closed on: 28 Mar 2021, 18:49:02
   ───