```
      name:  <unnamed>
       log:  /Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/QUESTION-2.sm
> cl
  log type:  smcl
 opened on:   9 Dec 2020, 00:00:17

 1 . set more off

 2 . use "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_Final_Pro
> ject_DataSET/namelist.dta"

 3 .  ****************************************************************
 4 .
 5 .
 6 . * Each school is a distinct data point, weighted by number of pupils
 7 .         keep if visit==981
(521,715 observations deleted)

 8 .         collapse sex elg98 stdgap yrbirth wgrp* (count) np=pupid, by (sch98v1
> )

 9 .
10 .  * Create worm group indicators
11 .         gen wgrp1 = (wgrp==1)

12 .         gen wgrp2 = (wgrp==2)

13 .         gen wgrp3 = (wgrp==3)

14 . **** TABLE 1: PANEL A
15 . *t-test without weight
16 . bys wgrp: summ sex elg98 stdgap yrbirth

-------------------------------------------------------------------------------
-> wgrp = 1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
         sex |         25    .5312851    .0303126   .4649681        .58
       elg98 |         25    .8872714    .0257725   .8320313   .9418604
      stdgap |         25    -1.99899    .2826454  -2.605882  -1.580786
     yrbirth |         25    1986.235    .5578535   1985.276   1987.464

-------------------------------------------------------------------------------
-> wgrp = 2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
         sex |         25    .5108336    .1046006   .0200893   .5714286
       elg98 |         25    .8977165    .0349129   .8363096          1
      stdgap |         25   -1.884126    .4078422  -2.539063  -.7777778
     yrbirth |         25    1986.561    .7466577   1985.349   1988.789
```

-> wgrp = 3

Variable	Obs	Mean	Std. Dev.	Min	Max
sex	25	.5193998	.0230937	.4585635	.5606061
elg98	25	.8826151	.0215419	.84	.9104478
stdgap	25	-1.974756	.3330687	-2.612903	-1.384921
yrbirth	25	1985.757	.5159941	1984.777	1986.964

```
17 .         foreach var in sex elg98 stdgap yrbirth {
  2.                 regress `var' wgrp1 wgrp2
  3.                 }
```

Source	SS	df	MS		
Model	.005274177	2	.002637089	Number of obs	= 75
Residual	.297443191	72	.004131155	F(2, 72)	= 0.64
				Prob > F	= 0.5311
Total	.302717368	74	.004090775	R-squared	= 0.0174
				Adj R-squared	= -0.0099
				Root MSE	= .06427

sex	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0118853	.0181795	0.65	0.515	-.0243548	.0481254
wgrp2	-.0085661	.0181795	-0.47	0.639	-.0448062	.0276739
_cons	.5193998	.0128548	40.41	0.000	.4937742	.5450254

Source	SS	df	MS		
Model	.002990256	2	.001495128	Number of obs	= 75
Residual	.056332415	72	.000782395	F(2, 72)	= 1.91
				Prob > F	= 0.1554
Total	.059322671	74	.000801658	R-squared	= 0.0504
				Adj R-squared	= 0.0240
				Root MSE	= .02797

elg98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0046564	.0079115	0.59	0.558	-.0111149	.0204276
wgrp2	.0151014	.0079115	1.91	0.060	-.0006699	.0308726
_cons	.8826151	.0055943	157.77	0.000	.8714631	.8937671

Source	SS	df	MS		
Model	.183290267	2	.091645133	Number of obs	= 75
Residual	8.57180301	72	.11905282	F(2, 72)	= 0.77
				Prob > F	= 0.4669
Total	8.75509327	74	.118312071	R-squared	= 0.0209
				Adj R-squared	= -0.0063
				Root MSE	= .34504

stdgap	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0242337	.0975921	-0.25	0.805	-.2187801	.1703127
wgrp2	.0906302	.0975921	0.93	0.356	-.1039162	.2851766
_cons	-1.974756	.0690081	-28.62	0.000	-2.112321	-1.837191

Source	SS	df	MS		
				Number of obs	= 75
				F(2, 72)	= 10.81
Model	8.18183944	2	4.09091972	Prob > F	= 0.0001
Residual	27.2387571	72	.37831607	R-squared	= 0.2310
				Adj R-squared	= 0.2096
Total	35.4205965	74	.478656709	Root MSE	= .61507

yrbirth	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.4786377	.1739692	2.75	0.008	.1318364	.825439
wgrp2	.8041992	.1739692	4.62	0.000	.4573979	1.151
_cons	1985.757	.1230148	1.6e+04	0.000	1985.512	1986.002

```
18 . **** TABLE 2: PANEL A
19 .         *t-test with weights
20 .         bys wgrp: summ sex elg98 stdgap yrbirth [aw=np]
```

-> wgrp = 1

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
sex	25	11634	.5329346	.0274165	.4649681	.58
elg98	25	11634	.885874	.0247304	.8320313	.9418604
stdgap	25	11634	-1.972535	.2533046	-2.605882	-1.580786
yrbirth	25	11634	1986.193	.5321102	1985.276	1987.464

-> wgrp = 2

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
sex	25	11990	.5096209	.1047615	.0200893	.5714286
elg98	25	11990	.8919381	.0248131	.8363096	1
stdgap	25	11990	-1.822323	.3955458	-2.539063	-.7777778
yrbirth	25	11990	1986.543	.6205553	1985.349	1988.789

-> wgrp = 3

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
sex	25	11157	.5221049	.0213989	.4585635	.5606061

elg98	25	11157	.8842065	.0199719	.84	.9104478
stdgap	25	11157	-1.969827	.335163	-2.612903	-1.384921
yrbirth	25	11157	1985.787	.5752325	1984.777	1986.964

```
21 .         foreach var in sex elg98 stdgap yrbirth {
  2.                 regress `var' wgrp1 wgrp2 [aw=np]
  3.                 }
(sum of wgt is   3.4781e+04)
```

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	0.83
Model	.006936961	2	.00346848	Prob > F	=	0.4404
Residual	.301082184	72	.004181697	R-squared	=	0.0225
				Adj R-squared	=	-0.0046
Total	.308019145	74	.004162421	Root MSE	=	.06467

sex	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0108297	.0184527	0.59	0.559	-.0259551	.0476145
wgrp2	-.0124841	.0183181	-0.68	0.498	-.0490006	.0240324
_cons	.5221049	.0131839	39.60	0.000	.4958234	.5483865

(sum of wgt is 3.4781e+04)

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	0.77
Model	.000836175	2	.000418088	Prob > F	=	0.4680
Residual	.039223479	72	.000544771	R-squared	=	0.0209
				Adj R-squared	=	-0.0063
Total	.040059654	74	.000541347	Root MSE	=	.02334

elg98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0016674	.0066603	0.25	0.803	-.0116095	.0149444
wgrp2	.0077316	.0066117	1.17	0.246	-.0054485	.0209117
_cons	.8842065	.0047585	185.81	0.000	.8747206	.8936925

(sum of wgt is 3.4781e+04)

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	1.69
Model	.375640759	2	.18782038	Prob > F	=	0.1926
Residual	8.02307178	72	.111431552	R-squared	=	0.0447
				Adj R-squared	=	0.0182
Total	8.39871254	74	.113496115	Root MSE	=	.33381

stdgap	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.002708	.095255	-0.03	0.977	-.1925955	.1871794

```
       wgrp2 |   .1475039   .0945602     1.56   0.123    -.0409985    .3360062
       _cons |  -1.969827   .0680567   -28.94   0.000    -2.105496   -1.834159
------------------------------------------------------------------------------

(sum of wgt is   3.4781e+04)

      Source |       SS           df       MS      Number of obs   =        75
-------------+----------------------------------   F(2, 72)        =     10.67
       Model |  7.11649537         2  3.55824768   Prob > F        =    0.0001
    Residual |  24.0194209        72  .333603068   R-squared       =    0.2286
-------------+----------------------------------   Adj R-squared   =    0.2071
       Total |  31.1359163        74  .420755625   Root MSE        =    .57758

------------------------------------------------------------------------------
     yrbirth |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |   .4060469   .1648158     2.46   0.016     .0774926    .7346012
       wgrp2 |   .7554875   .1636136     4.62   0.000     .4293297    1.081645
       _cons |   1985.787   .1177556  1.7e+04   0.000     1985.552    1986.022
------------------------------------------------------------------------------

22 .
23 .
24 .         * Incorporate data from Pupil Questionnaire
25 .
26 .         keep sch98v1 wgrp*

27 .         rename sch98v1 schid

28 .         sort schid

29 .         save schoolnum, replace
file schoolnum.dta saved

30 .         clear

31 .         use "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_F
> inal_Project_DataSET/pupq.dta"

32 .
33 . * Only keep pupils with 1998 data
34 .         drop if pupdate_98_1=="" &  schid_98_2==.
(2,620 observations deleted)

35 .
36 . * Incorporate treatment group variable
37 .         gen schid = schid_98_2

38 .         sort schid

39 .
40 .         merge m:1 schid using schoolnum

    Result                           # of obs.
```

```
    ----------------------------------------
    not matched                             0
    matched                            13,130  (_merge==3)
    ----------------------------------------

41 .         tab _merge

      _merge |      Freq.     Percent        Cum.
-------------+-----------------------------------
matched (3)  |     13,130      100.00      100.00
-------------+-----------------------------------
       Total |     13,130      100.00

42 .         drop _merge

43 .
44 . * Create measure of pre-program school attendance based on # days absent in p
   > revious four weeks
45 .         gen preatt_98 = (20-absdays_98_6)/20
   (152 missing values generated)

46 .
47 . * Create indicator for "Household Has Livestock"
48 .         gen     Ilivestock_98 = (cows_98_23==1 | goats_98_24==1 | sheep_98_25
   > ==1 | pigs_98_26==1)

49 .         replace Ilivestock_98 = . if (cows_98_23==. | goats_98_24==. | sheep_
   > 98_25==. | pigs_98_26==.)
   (9 real changes made, 9 to missing)

50 .
51 . * Create indicator for "Child Sick Often"
52 .         gen     Isoften_98 = (fallsick_98_37==3)

53 .         replace Isoften_98 = . if fallsick_98_37==.
   (9 real changes made, 9 to missing)

54 .
55 . * Create indicator for "Child Clean"
56 .         gen     Iclean_98 = (clean_98_15==1)

57 .         replace Iclean_98 = . if clean_98_15==.
   (1 real change made, 1 to missing)

58 .
59 . * Each school is a distinct data point, weighted by number of pupils
60 . collapse preatt_98 havelatr_98_33 Ilivestock_98 waz_98 bloodst_98_58 Isoften_
   > 98 malaria_98_48 Iclean_98 ///
   >         wgrp* (count) np = pupid, by(schid)

61 .
62 .
63 . **** TABLE 1: PANEL B
```

```
64 . *t-test without weight
65 . bys wgrp: summ preatt_98 havelatr_98_33 Ilivestock_98 waz_98 bloodst_98_58 Is
   > often_98 malaria_98_48 Iclean_98
```

-> wgrp = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
preatt_98	25	.9738543	.014945	.9269388	.9969512
havelatr_~33	25	.8187817	.0859229	.646789	.9288538
Ilivestoc~98	25	.6483713	.118392	.4324324	.8323354
waz_98	25	-1.389107	.1331045	-1.745147	-1.174286
bloodst_9~58	25	.259286	.1213661	.097561	.5183486
Isoften_98	25	.0919839	.0519109	.0073529	.1792453
malaria_9~48	25	.3618487	.0910702	.2248804	.5697674
Iclean_98	25	.5878764	.1248119	.2173913	.8208333

-> wgrp = 2

Variable	Obs	Mean	Std. Dev.	Min	Max
preatt_98	25	.9618636	.0184693	.9117117	.9895
havelatr_~33	25	.7956409	.1508569	.4076923	.9649123
Ilivestoc~98	25	.6738798	.1108677	.4858491	.8430232
waz_98	25	-1.426267	.1815372	-1.843793	-.9624057
bloodst_9~58	25	.2285974	.1053984	.0564972	.4883721
Isoften_98	25	.1073843	.0441899	.035	.2461538
malaria_9~48	25	.4119708	.1233183	.2307692	.7142857
Iclean_98	25	.6588723	.1274986	.4186046	.9622642

-> wgrp = 3

Variable	Obs	Mean	Std. Dev.	Min	Max
preatt_98	25	.9695311	.0093731	.9401361	.9813253
havelatr_~33	25	.8096977	.1522834	.3962264	.974026
Ilivestoc~98	25	.6748721	.1065462	.4146341	.9090909
waz_98	25	-1.440187	.2038174	-2.013962	-1.159683
bloodst_9~58	25	.2043866	.1572354	.0829694	.754717
Isoften_98	25	.0777073	.0406948	.0095238	.168
malaria_9~48	25	.4012834	.1076253	.2207792	.6956522
Iclean_98	25	.6523937	.1201077	.3207547	.7987805

```
66 .         foreach var in preatt_98 havelatr_98_33 Ilivestock_98 waz_98 bloodst_
   > 98_58 Isoften_98 malaria_98_48 Iclean_98 {
     2.                 regress `var' wgrp1 wgrp2
```

```
3.                 }
```

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	4.24
Model	.001843815	2	.000921908	Prob > F	=	0.0182
Residual	.015655815	72	.000217442	R-squared	=	0.1054
				Adj R-squared	=	0.0805
Total	.01749963	74	.000236481	Root MSE	=	.01475

preatt_98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0043232	.0041708	1.04	0.303	-.0039911	.0126375
wgrp2	-.0076675	.0041708	-1.84	0.070	-.0159818	.0006468
_cons	.9695311	.0029492	328.75	0.000	.963652	.9754102

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	0.19
Model	.00679677	2	.003398385	Prob > F	=	0.8264
Residual	1.27993845	72	.017776923	R-squared	=	0.0053
				Adj R-squared	=	-0.0223
Total	1.28673522	74	.017388314	Root MSE	=	.13333

havelatr_~33	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.009084	.0377115	0.24	0.810	-.0660924	.0842604
wgrp2	-.0140568	.0377115	-0.37	0.710	-.0892332	.0611196
_cons	.8096977	.026666	30.36	0.000	.7565399	.8628554

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	0.45
Model	.011283004	2	.005641502	Prob > F	=	0.6398
Residual	.903849658	72	.012553467	R-squared	=	0.0123
				Adj R-squared	=	-0.0151
Total	.915132662	74	.012366658	Root MSE	=	.11204

Ilivestoc~98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0265008	.0316903	-0.84	0.406	-.0896743	.0366727
wgrp2	-.0009923	.0316903	-0.03	0.975	-.0641658	.0621812
_cons	.6748721	.0224085	30.12	0.000	.6302017	.7195425

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	0.57
Model	.034865423	2	.017432711	Prob > F	=	0.5697
Residual	2.21313831	72	.030738032	R-squared	=	0.0155
				Adj R-squared	=	-0.0118
Total	2.24800373	74	.030378429	Root MSE	=	.17532

waz_98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0510803	.0495887	1.03	0.306	-.0477731	.1499336
wgrp2	.0139198	.0495887	0.28	0.780	-.0849335	.1127732
_cons	-1.440187	.0350645	-41.07	0.000	-1.510087	-1.370287

Source	SS	df	MS		
Model	.037849052	2	.018924526	Number of obs	= 75
Residual	1.21347687	72	.016853845	F(2, 72)	= 1.12
				Prob > F	= 0.3310
Total	1.25132592	74	.01690981	R-squared	= 0.0302
				Adj R-squared	= 0.0033
				Root MSE	= .12982

bloodst_9~58	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0548993	.0367193	1.50	0.139	-.0182993	.1280979
wgrp2	.0242108	.0367193	0.66	0.512	-.0489878	.0974094
_cons	.2043866	.0259645	7.87	0.000	.1526274	.2561459

Source	SS	df	MS		
Model	.011014316	2	.005507158	Number of obs	= 75
Residual	.151285395	72	.002101186	F(2, 72)	= 2.62
				Prob > F	= 0.0797
Total	.162299711	74	.002193239	R-squared	= 0.0679
				Adj R-squared	= 0.0420
				Root MSE	= .04584

Isoften_98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0142766	.0129651	1.10	0.274	-.0115689	.0401222
wgrp2	.029677	.0129651	2.29	0.025	.0038315	.0555225
_cons	.0777073	.0091677	8.48	0.000	.0594317	.0959828

Source	SS	df	MS		
Model	.034846225	2	.017423112	Number of obs	= 75
Residual	.842025588	72	.0116948	F(2, 72)	= 1.49
				Prob > F	= 0.2323
Total	.876871813	74	.011849619	R-squared	= 0.0397
				Adj R-squared	= 0.0131
				Root MSE	= .10814

malaria_9~48	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0394347	.0305873	-1.29	0.201	-.1004094	.02154
wgrp2	.0106874	.0305873	0.35	0.728	-.0502873	.0716621
_cons	.4012834	.0216285	18.55	0.000	.3581678	.4443991

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	2.50
Model	.077040613	2	.038520306	Prob > F	=	0.0893
Residual	1.11023437	72	.015419922	R-squared	=	0.0649
				Adj R-squared	=	0.0389
Total	1.18727498	74	.016044257	Root MSE	=	.12418

Iclean_98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0645173	.0351226	-1.84	0.070	-.1345329	.0054982
wgrp2	.0064785	.0351226	0.18	0.854	-.063537	.0764941
_cons	.6523937	.0248354	26.27	0.000	.6028853	.7019022

```
67 .
68 . **** TABLE 2: PANEL B
69 .                 *t-test with weight
70 .                 bys wgrp: summ preatt_98 havelatr_98_33 Ilivestock_98 waz_98
   > bloodst_98_58 Isoften_98 malaria_98_48 Iclean_98 [aw=np]
```

-> wgrp = 1

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
preatt_98	25	4601	.9727461	.0144374	.9269388	.9969512
havelatr_~33	25	4601	.822321	.086307	.646789	.9288538
Ilivestoc~98	25	4601	.6590974	.1148677	.4324324	.8323354
waz_98	25	4601	-1.39012	.1264909	-1.745147	-1.174286
bloodst_9~58	25	4601	.2635569	.1196989	.097561	.5183486
Isoften_98	25	4601	.0976071	.0473208	.0073529	.1792453
malaria_9~48	25	4601	.367683	.0926754	.2248804	.5697674
Iclean_98	25	4601	.6032854	.1176456	.2173913	.8208333

-> wgrp = 2

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
preatt_98	25	4260	.9632722	.0166778	.9117117	.9895
havelatr_~33	25	4260	.8083434	.14127	.4076923	.9649123
Ilivestoc~98	25	4260	.6725352	.1118874	.4858491	.8430232
waz_98	25	4260	-1.402161	.1760423	-1.843793	-.9624057
bloodst_9~58	25	4260	.2206573	.0950049	.0564972	.4883721
Isoften_98	25	4260	.1044601	.0405134	.035	.2461538
malaria_9~48	25	4260	.3840376	.0970834	.2307692	.7142857
Iclean_98	25	4260	.657277	.1257667	.4186046	.9622642

```
-> wgrp = 3
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
preatt_98	25	4269	.9694445	.0093602	.9401361	.9813253
havelatr_~33	25	4269	.8181786	.1331183	.3962264	.974026
Ilivestoc~98	25	4269	.664068	.0968795	.4146341	.9090909
waz_98	25	4269	-1.439656	.1801888	-2.013962	-1.159683
bloodst_9~58	25	4269	.1934879	.1290711	.0829694	.754717
Isoften_98	25	4269	.0810494	.0423568	.0095238	.168
malaria_9~48	25	4269	.4018115	.1052634	.2207792	.6956522
Iclean_98	25	4269	.6697119	.0980211	.3207547	.7987805

```
71 .         foreach var in preatt_98 havelatr_98_33 Ilivestock_98 waz_98 bloodst_
> 98_58 Isoften_98 malaria_98_48 Iclean_98 {
  2.                 regress `var' wgrp1 wgrp2 [aw=np]
  3.                 }
(sum of wgt is   1.3130e+04)
```

Source	SS	df	MS		
Model	.001159891	2	.000579946	Number of obs	= 75
Residual	.013807584	72	.000191772	F(2, 72)	= 3.02
Total	.014967475	74	.000202263	Prob > F	= 0.0548
				R-squared	= 0.0775
				Adj R-squared	= 0.0519
				Root MSE	= .01385

preatt_98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0033016	.0038937	0.85	0.399	-.0044604	.0110637
wgrp2	-.0061723	.003968	-1.56	0.124	-.0140824	.0017379
_cons	.9694445	.0028043	345.69	0.000	.9638541	.9750348

```
(sum of wgt is   1.3130e+04)
```

Source	SS	df	MS		
Model	.002577881	2	.00128894	Number of obs	= 75
Residual	1.06897181	72	.014846831	F(2, 72)	= 0.09
Total	1.07154969	74	.014480401	Prob > F	= 0.9169
				R-squared	= 0.0024
				Adj R-squared	= -0.0253
				Root MSE	= .12185

havelatr_~33	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0041424	.0342603	0.12	0.904	-.0641543	.0724391
wgrp2	-.0098352	.034914	-0.28	0.779	-.079435	.0597646
_cons	.8181786	.0246749	33.16	0.000	.7689901	.8673671

```
(sum of wgt is   1.3130e+04)
```

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	0.10
Model	.002318088	2	.001159044	Prob > F	=	0.9061
Residual	.845057643	72	.011736912	R-squared	=	0.0027
				Adj R-squared	=	-0.0250
Total	.847375731	74	.011451023	Root MSE	=	.10834

Ilivestoc~98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0049706	.0304615	-0.16	0.871	-.0656945	.0557533
wgrp2	.0084672	.0310427	0.27	0.786	-.0534153	.0703498
_cons	.664068	.0219389	30.27	0.000	.6203335	.7078025

(sum of wgt is 1.3130e+04)

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	0.64
Model	.033326941	2	.016663471	Prob > F	=	0.5326
Residual	1.88769898	72	.026218041	R-squared	=	0.0173
				Adj R-squared	=	-0.0099
Total	1.92102592	74	.02595981	Root MSE	=	.16192

waz_98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0495361	.0455276	1.09	0.280	-.0412215	.1402936
wgrp2	.037495	.0463963	0.81	0.422	-.0549943	.1299843
_cons	-1.439656	.0327898	-43.91	0.000	-1.505021	-1.37429

(sum of wgt is 1.3130e+04)

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	2.37
Model	.063485915	2	.031742957	Prob > F	=	0.1003
Residual	.962329712	72	.01336569	R-squared	=	0.0619
				Adj R-squared	=	0.0358
Total	1.02581563	74	.013862373	Root MSE	=	.11561

bloodst_9~58	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.070069	.0325065	2.16	0.034	.0052685	.1348695
wgrp2	.0271693	.0331267	0.82	0.415	-.0388676	.0932063
_cons	.1934879	.0234118	8.26	0.000	.1468174	.2401585

(sum of wgt is 1.3130e+04)

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	1.86
Model	.007079175	2	.003539587	Prob > F	=	0.1627
Residual	.136837976	72	.001900527	R-squared	=	0.0492
				Adj R-squared	=	0.0228

```
       Total |  .143917151        74  .001944826   Root MSE        =     .0436
```

Isoften_98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0165577	.0122578	1.35	0.181	-.0078777	.0409931
wgrp2	.0234107	.0124917	1.87	0.065	-.001491	.0483123
_cons	.0810494	.0088283	9.18	0.000	.0634506	.0986483

```
(sum of wgt is   1.3130e+04)
```

```
      Source |       SS           df       MS      Number of obs   =        75
-------------+----------------------------------   F(2, 72)        =      0.76
       Model |  .01473294         2  .00736647   Prob > F        =    0.4706
    Residual |  .696257134       72  .009670238   R-squared       =    0.0207
-------------+----------------------------------   Adj R-squared   =   -0.0065
       Total |  .710990075       74  .009607974   Root MSE        =    .09834
```

malaria_9~48	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0341286	.0276499	-1.23	0.221	-.0892475	.0209904
wgrp2	-.017774	.0281774	-0.63	0.530	-.0739446	.0383967
_cons	.4018115	.0199139	20.18	0.000	.3621138	.4415092

```
(sum of wgt is   1.3130e+04)
```

```
      Source |       SS           df       MS      Number of obs   =        75
-------------+----------------------------------   F(2, 72)        =      2.43
       Model |  .063784678        2  .031892339   Prob > F        =    0.0949
    Residual |  .943615485       72  .013105771   R-squared       =    0.0633
-------------+----------------------------------   Adj R-squared   =    0.0373
       Total |  1.00740016       74  .013613516   Root MSE        =    .11448
```

Iclean_98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0664265	.0321889	-2.06	0.043	-.1305938	-.0022592
wgrp2	-.0124349	.032803	-0.38	0.706	-.0778266	.0529568
_cons	.6697119	.023183	28.89	0.000	.6234974	.7159264

```
72 .         clear

73 .
74 .
75 . * Use School data
76 .         use "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_F
   > inal_Project_DataSET/schoolvar.dta"

77 .
78 . * Create worm group indicators
79 .
```

```
80 .         gen wgrp1 = (wgrp==1)

81 .         gen wgrp2 = (wgrp==2)

82 .         gen wgrp3 = (wgrp==3)

83 .
84 . * Normalize 1996 mock tests to be in units of individual std dev, equivalent
   > to 1998, 1999
85 .         replace mk96_s = mk96_s*(0.4357)/(0.8318)
   (75 real changes made)

86 .
87 .
88 . **** TABLE 1 & 2: PANEL C
89 .
90 .         bys wgrp: summ mk96_s distlake pup_pop latr_pup z_inf98
```

-> wgrp = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
mk96_s	25	-.1029716	.3799214	-1.096043	.5278673
distlake	25	10.03356	5.425798	0	19.381
pup_pop	25	392.72	158.3297	148	748
latr_pup	24	.0074168	.0033881	.0022779	.0142857
z_inf98	25	.3688953	.1058442	.2206897	.5326461

-> wgrp = 2

Variable	Obs	Mean	Std. Dev.	Min	Max
mk96_s	25	.0918428	.5040303	-.8385319	1.16006
distlake	24	9.922959	8.116067	0	24.742
pup_pop	25	403.8	275.6167	14	1351
latr_pup	22	.0061782	.003619	.0007402	.0144928
z_inf98	25	.3665191	.1005379	.2206897	.5326461

-> wgrp = 3

Variable	Obs	Mean	Std. Dev.	Min	Max
mk96_s	25	.0111289	.4086192	-.5630336	1.493038
distlake	25	9.45548	6.399379	.355	21.956
pup_pop	25	375.88	153.5291	95	675
latr_pup	24	.0065807	.0033304	.0015291	.0140845
z_inf98	25	.360046	.1078718	.2206897	.5326461

```
91 .         foreach var in mk96_s distlake pup_pop latr_pup z_inf98 {
```

```
2.                          regress `var' wgrp1 wgrp2
3.                  }
```

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	1.27
Model	.479052529	2	.239526264	Prob > F	=	0.2868
Residual	13.5685559	72	.188452165	R-squared	=	0.0341
				Adj R-squared	=	0.0073
Total	14.0476084	74	.189832547	Root MSE	=	.43411

mk96_s	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.1141005	.1227851	-0.93	0.356	-.358868	.1306671
wgrp2	.0807139	.1227851	0.66	0.513	-.1640537	.3254815
_cons	.0111289	.0868222	0.13	0.898	-.1619479	.1842057

Source	SS	df	MS	Number of obs	=	74
				F(2, 71)	=	0.05
Model	4.69353615	2	2.34676807	Prob > F	=	0.9494
Residual	3204.41479	71	45.1326026	R-squared	=	0.0015
				Adj R-squared	=	-0.0267
Total	3209.10832	73	43.960388	Root MSE	=	6.7181

distlake	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.57808	1.90016	0.30	0.762	-3.210731	4.366892
wgrp2	.4674786	1.919851	0.24	0.808	-3.360596	4.295553
_cons	9.45548	1.343616	7.04	0.000	6.776386	12.13457

Source	SS	df	MS	Number of obs	=	75
				F(2, 72)	=	0.12
Model	9882.32	2	4941.16	Prob > F	=	0.8880
Residual	2990497.68	72	41534.69	R-squared	=	0.0033
				Adj R-squared	=	-0.0244
Total	3000380	74	40545.6757	Root MSE	=	203.8

pup_pop	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	16.84	57.64352	0.29	0.771	-98.07025	131.7503
wgrp2	27.92	57.64352	0.48	0.630	-86.99025	142.8303
_cons	375.88	40.76012	9.22	0.000	294.6262	457.1338

Source	SS	df	MS	Number of obs	=	70
				F(2, 67)	=	0.78
Model	.000018548	2	9.2739e-06	Prob > F	=	0.4614
Residual	.000794177	67	.000011853	R-squared	=	0.0228
				Adj R-squared	=	-0.0063

```
       Total |  .000812725        69  .000011779   Root MSE        =    .00344
```

latr_pup	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0008362	.0009939	0.84	0.403	-.0011476	.00282
wgrp2	-.0004025	.0010162	-0.40	0.693	-.0024308	.0016259
_cons	.0065807	.0007028	9.36	0.000	.0051779	.0079834

Source	SS	df	MS		
Model	.001048818	2	.000524409	Number of obs	= 75
Residual	.790732524	72	.010982396	F(2, 72)	= 0.05
				Prob > F	= 0.9534
Total	.791781342	74	.010699748	R-squared	= 0.0013
				Adj R-squared	= -0.0264
				Root MSE	= .1048

z_inf98	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0088493	.029641	0.30	0.766	-.050239	.0679377
wgrp2	.0064732	.029641	0.22	0.828	-.0526152	.0655615
_cons	.360046	.0209594	17.18	0.000	.3182642	.4018277

```
92 .
93 .
94 .         ******************************************
95 .
   end of do-file
```

```
      name:  <unnamed>
       log:  /Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/TABLE-2-.smcl
  log type:  smcl
 opened on:  30 Nov 2020, 18:24:13

 1 . set more off

 2 .
 3 .
 4 . * Incorporate child gender and age information with parasitological exam data
 5 .         use "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_F
   > inal_Project_Data /namelist.dta"

 6 .         collapse sex yrbirth sch98v1, by (pupid)

 7 .         sort pupid

 8 .         save namelist, replace
   file namelist.dta saved

 9 .         use "//Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_
   > Final_Project_Data /wormed.dta"

10 .         drop sch98v1

11 .         sort pupid

12 .         merge pupid using namelist
   (note: you are using old merge syntax; see [D] merge for new syntax)

13 .         tab _merge

     _merge |      Freq.     Percent        Cum.
------------+-----------------------------------
          1 |        137        0.39        0.39
          2 |     30,900       88.49       88.89
          3 |      3,881       11.11      100.00
------------+-----------------------------------
      Total |     34,918      100.00

14 .         drop _merge

15 .         save namelist2, replace
   file namelist2.dta saved

16 .         clear

17 .
18 . * Incorporate treatment group information
19 .         use "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_F
   > inal_Project_Data /schoolvar.dta"
```

```
20 .         keep schid distlake wgrp

21 .         rename schid sch98v1

22 .         sort sch98v1

23 .         save namelist, replace
   file namelist.dta saved

24 .         clear

25 .         use namelist2

26 .         drop wgrp1

27 .         sort sch98v1

28 .         merge sch98v1 using namelist
   (note: you are using old merge syntax; see [D] merge for new syntax)
   variable sch98v1 does not uniquely identify observations in the master data

29 .         tab _merge
```

_merge	Freq.	Percent	Cum.
1	137	0.39	0.39
3	34,781	99.61	100.00
Total	34,918	100.00	

```
30 .         drop _merge

31 .         drop if hw98==.
   (33,024 observations deleted)

32 .
33 . * Change units for average infection intensity variables from 100 milligrams
   > to grams
34 .         replace hw98 = hw98*10
   (1,464 real changes made)

35 .         replace al98 = al98*10
   (803 real changes made)

36 .         replace sm98 = sm98*10
   (412 real changes made)

37 .         replace tt98 = tt98*10
   (1,045 real changes made)

38 .
39 . * Prevalence of infection
40 .         * Hookwork
```

```
41 .                 summ any_hw98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    any_hw98 |      1,894    .7729673    .4190246         0          1

42 .         * Roundworm
43 .                 summ any_al98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    any_al98 |      1,894    .4239704    .4943162         0          1

44 .         * Schistosomiasis
45 .                 summ any_sm98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    any_sm98 |      1,894     .217529    .4126743         0          1

46 .         * Whipworm
47 .                 summ any_tt98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    any_tt98 |      1,894    .5517423    .4974469         0          1

48 .         * At least one infection
49 .                 summ any_98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
      any_98 |      1,894    .9155227    .2781757         0          1

50 .                 * Born since 1985
51 .                         summ any_98 if (yrbirth>=1985 & yrbirth~=.)

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
      any_98 |        822    .9306569    .2541913         0          1

52 .                 * Born before 1985
53 .                         summ any_98 if yrbirth<1985

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
      any_98 |      1,008    .9077381     .289539         0          1

54 .                 * Female
55 .                         summ any_98 if sex==0

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
```

```
    any_98 |        833    .9051621     .293167          0          1

. * Male
. summ any_98 if sex==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    any_98 |      1,012    .9268775    .2604662          0          1

.         * At least two & three infections
.                 gen atleast2=0 if numinf98!=.

.                 replace atleast2=1 if numinf98>=2 & numinf98!=.
(1,228 real changes made)

.                 tab atleast2

   atleast2 |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |        666       35.16       35.16
          1 |      1,228       64.84      100.00
------------+-----------------------------------
      Total |      1,894      100.00

.                 gen atleast3=0 if numinf98!=.

.                 replace atleast3=1 if numinf98>=3 & numinf98!=.
(645 real changes made)

.                 tab atleast3

   atleast3 |      Freq.     Percent        Cum.
------------+-----------------------------------
          0 |      1,249       65.95       65.95
          1 |        645       34.05      100.00
------------+-----------------------------------
      Total |      1,894      100.00

.
. * Prevalence of moderate-heavy infection
.         * Hookworm
.                 summ hw98_ics

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    hw98_ics |      1,894    .1541711     .361208          0          1

.         * Roundworm
.                 summ al98_who

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    al98_who |      1,894     .157339    .3642162          0          1
```

```
71 .         * Schistosomiasis
72 .                 summ sm98_who
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sm98_who	**1,894**	**.0712777**	**.2573561**	**0**	**1**

```
73 .         * Whipworm
74 .                 summ tt98_ics
```

Variable	Obs	Mean	Std. Dev.	Min	Max
tt98_ics	**1,894**	**.0982049**	**.29767**	**0**	**1**

```
75 .         * At least one infection
76 .                 summ any_ics98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_ics98	**1,894**	**.3658923**	**.4818067**	**0**	**1**

```
77 .                 * Born since 1985
78 .                         summ any_ics98 if (yrbirth>=1985 & yrbirth~=.)
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_ics98	**822**	**.3990268**	**.4899964**	**0**	**1**

```
79 .                 * Born before 1985
80 .                         summ any_ics98 if yrbirth<1985
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_ics98	**1,008**	**.3382937**	**.4733639**	**0**	**1**

```
81 .                 * Female
82 .                         summ any_ics98 if sex==0
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_ics98	**833**	**.3433373**	**.4751082**	**0**	**1**

```
83 .                 * Male
84 .                         summ any_ics98 if sex==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_ics98	**1,012**	**.3824111**	**.4862165**	**0**	**1**

```
85 .         * At least two & three infections
86 .                 gen atleast2i=0 if numics98!=.
```

```
 87 .                 replace atleast2i=1 if numics98>=2 & numics98!=.
(196 real changes made)

 88 .
 89 .                 summ atleast2i

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   atleast2i |      1,894    .1034847    .3046713         0          1

 90 .                 gen atleast3i=0 if numics98!=.

 91 .                 replace atleast3i=1 if numics98>=3 & numics98!=.
(22 real changes made)

 92 .
 93 .                 summ atleast3i

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   atleast3i |      1,894    .0116156    .1071764         0          1

 94 .
 95 . * Average worm load
 96 .         * Hookworm
 97 .                 summ hw98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
        hw98 |      1,894    425.6917    1055.285         0      20000

 98 .         * Roundworm
 99 .                 summ al98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
        al98 |      1,894    2336.521    5155.714         0      20900

100 .         * Schistosomiasis
101 .                 summ sm98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
        sm98 |      1,894     90.5491    412.9692         0       5520

102 .         * Whipworm
103 .                 summ tt98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
        tt98 |      1,894    161.3147    469.6525         0       6720

104 .
```

```
end of do-file
```

```
      name:  <unnamed>
       log:  /Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/Question3-.sm
> cl
  log type:  smcl
 opened on:  30 Nov 2020, 19:05:20

 1 . set more off

 2 .
 3 .
 4 . * Incorporate child gender and age information with parasitological exam data
 5 .         use "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_F
> inal_Project_DATASETT/namelist.dta"

 6 . collapse sex yrbirth sch98v1 wgrp, by (pupid)

 7 .         sort pupid

 8 .          keep if wgrp==1
(23,147 observations deleted)

 9 .         keep if sex==1
(6,077 observations deleted)

10 .
11 . save namelist_sub, replace
file namelist_sub.dta saved

12 .
13 .         use "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_F
> inal_Project_DATASETT/wormed.dta"

14 .
15 .         drop sch98v1

16 .         sort pupid

17 .         merge pupid using namelist_sub
(note: you are using old merge syntax; see [D] merge for new syntax)

18 .         keep if sex==1
(2,841 observations deleted)

19 .
20 .         tab _merge

      _merge |      Freq.     Percent        Cum.
-------------+-----------------------------------
           2 |      4,380       78.82       78.82
           3 |      1,177       21.18      100.00
-------------+-----------------------------------
       Total |      5,557      100.00
```

```
21 .         drop _merge

22 .         save namelist_sub2, replace
   file namelist_sub2.dta saved

23 .         clear

24 .
25 . * Incorporate treatment group information
26 .         use "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910/ECON_7910_F
   > inal_Project_DATASETT/schoolvar.dta"

27 .
28 .         keep schid distlake wgrp

29 .
30 .         rename schid sch98v1

31 .         sort sch98v1

32 .          keep if wgrp==1
   (50 observations deleted)

33 .         save namelist_sub, replace
   file namelist_sub.dta saved

34 .         clear

35 .         use namelist_sub2

36 .
37 .         sort sch98v1

38 .         merge sch98v1 using namelist_sub
   (note: you are using old merge syntax; see [D] merge for new syntax)
   variable sch98v1 does not uniquely identify observations in the master data

39 .         tab _merge
```

_merge	Freq.	Percent	Cum.
3	**5,557**	**100.00**	**100.00**
Total	**5,557**	**100.00**	

```
40 .         drop _merge

41 .         drop if hw98==.
   (4,546 observations deleted)

42 .
43 . * Change units for average infection intensity variables from 100 milligrams
```

```
   > to grams
44 .         replace hw98 = hw98*10
   (804 real changes made)

45 .         replace al98 = al98*10
   (426 real changes made)

46 .         replace sm98 = sm98*10
   (249 real changes made)

47 .         replace tt98 = tt98*10
   (565 real changes made)

48 .
49 . * Prevalence of infection
50 .         * Hookwork
51 .                 summ any_hw98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_hw98	**1,011**	**.7952522**	**.4037169**	**0**	**1**

```
52 .         * Roundworm
53 .                 summ any_al98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_al98	**1,011**	**.421365**	**.4940222**	**0**	**1**

```
54 .         * Schistosomiasis
55 .                 summ any_sm98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_sm98	**1,011**	**.2462908**	**.4310631**	**0**	**1**

```
56 .         * Whipworm
57 .                 summ any_tt98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_tt98	**1,011**	**.5588526**	**.49677**	**0**	**1**

```
58 .         * At least one infection
59 .                 summ any_98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_98	**1,011**	**.9268051**	**.260585**	**0**	**1**

```
60 .                 * Born since 1985
61 .                         summ any_98 if  (yrbirth>=1985 & yrbirth~=.)
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
      any_98 |        405    .9308642    .2539987          0          1
```

```
62 .                * Born before 1985
63 .                        summ any_98 if  yrbirth<1985
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
      any_98 |        594    .9276094    .2593519          0          1
```

```
64 .
65 .         * At least two & three infections
66 .                gen atleast2=0 if numinf98!=.

67 .                replace atleast2=1 if numinf98>=2 & numinf98!=.
(675 real changes made)

68 .                summ atleast2
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    atleast2 |      1,011    .6676558    .4712868          0          1
```

```
69 .                gen atleast3=0 if numinf98!=.

70 .                replace atleast3=1 if numinf98>=3 & numinf98!=.
(352 real changes made)

71 .                summ atleast3
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    atleast3 |      1,011    .3481701     .476626          0          1
```

```
72 .
73 . * Prevalence of moderate-heavy infection
74 .         * Hookworm
75 .                summ hw98_ics
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    hw98_ics |      1,011    .1721068    .3776601          0          1
```

```
76 .         * Roundworm
77 .                summ al98_who
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    al98_who |      1,011    .1513353    .3585528          0          1
```

```
78 .         * Schistosomiasis
79 .                summ sm98_who
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    sm98_who |      1,011    .0850643    .2791154         0          1

80 .         * Whipworm
81 .                 summ tt98_ics

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
    tt98_ics |      1,011    .0999011    .3000165         0          1

82 .         * At least one infection
83 .                 summ any_ics98

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   any_ics98 |      1,011    .3827893    .4863081         0          1

84 .                 * Born since 1985
85 .                         summ any_ics98 if  (yrbirth>=1985 & yrbirth~=.)

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   any_ics98 |        405    .4148148    .4932994         0          1

86 .                 * Born before 1985
87 .                         summ any_ics98 if  yrbirth<1985

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   any_ics98 |        594    .3636364    .4814511         0          1

88 .
89 .         * At least two & three infections
90 .                 gen atleast2i=0 if numics98!=.

91 .                 replace atleast2i=1 if numics98>=2 & numics98!=.
(114 real changes made)

92 .
93 .                 summ atleast2i

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   atleast2i |      1,011    .1127596    .3164553         0          1

94 .
95 .                 gen atleast3i=0 if numics98!=.

96 .                 replace atleast3i=1 if numics98>=3 & numics98!=.
(13 real changes made)
```

```
 97 .
 98 .                 summ atleast3i
```

Variable	Obs	Mean	Std. Dev.	Min	Max
atleast3i	**1,011**	**.0128586**	**.1127199**	**0**	**1**

```
 99 .
100 . * Average worm load
101 .         * Hookworm
102 .                 summ hw98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
hw98	**1,011**	**469.9308**	**1122.219**	**0**	**20000**

```
103 .         * Roundworm
104 .                 summ al98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
al98	**1,011**	**2224.352**	**4943.906**	**0**	**20310**

```
105 .         * Schistosomiasis
106 .                 summ sm98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
sm98	**1,011**	**108.368**	**444.2736**	**0**	**4980**

```
107 .         * Whipworm
108 .                 summ tt98
```

Variable	Obs	Mean	Std. Dev.	Min	Max
tt98	**1,011**	**143.7191**	**364.4443**	**0**	**3590**

```
109 .
    end of do-file

110 . do "/var/folders/rt/52z7d4k159d4c4gsnxmbjnxr0000gn/T//SD02389.000000"

111 .
112 . /*DATA ANALYSIS DO FILES: TABLE 1*/
113 .
114 . cd "/Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910"
    /Users/fatimahashimi/Desktop/FINAL PROJECT ECON 7910

115 . * lets create a file with all our work, that is called a log file
116 . clear

117 . cap log close
```

std -> std981 std982 ... std998

name: **<unnamed>**
log: **C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data\Question4Final.smc**
log type: **smcl**
opened on: **10 Dec 2020, 21:57:11**

```
1 .
2 . * Merge Compliance data with Namelist data
3 .                 rename schid sch

4 .         drop Tmonths

5 .         reshape wide date sch std obs prs sex Isem*, i(pupid) j(visit) /*for males only*/
(note: j = 981 982 983 984 985 986 987 988 991 992 993 994 995 996 997 998)
```

Data	long	->	wide
Number of obs.	**556496**	->	**34781**
Number of variables	**22**	->	**156**
j variable (16 values)	**visit**	->	(dropped)
xij variables:			
	date	->	**date981 date982 ... date998**
	sch	->	**sch981 sch982 ... sch998**
	std	->	**std981 std982 ... std998**
	obs	->	**obs981 obs982 ... obs998**
	prs	->	**prs981 prs982 ... prs998**
	sex	->	**sex981 sex982 ... sex998**
	Isem1	->	**Isem1981 Isem1982 ... Isem1998**
	Isem2	->	**Isem2981 Isem2982 ... Isem2998**
	Isem3	->	**Isem3981 Isem3982 ... Isem3998**

```
6 .         sort pupid

7 .         save "question4final", replace
file question4final.dta saved

8 .         use "comply"

9 .         sort pupid

10 .        merge pupid using "question4final"
(note: you are using old merge syntax; see [D] merge for new syntax)
(label sch_label already defined)

11 .        aorder

12 .
13 .        drop if wgrp==.
(10,377 observations deleted)

14 .    tab wgrp, gen(wgrp)
```

Initial worm group, Jan 1998	Freq.	Percent	Cum.
1	**11,634**	**33.45**	**33.45**
2	**11,990**	**34.47**	**67.92**
3	**11,157**	**32.08**	**100.00**
Total	**34,781**	**100.00**	

```
15 .         gen any98=.
(34,781 missing values generated)

16 .         replace any98 = 0 if (a981==0 | a982==0 | p98==0)
(26,076 real changes made)

17 .         replace any98 = 1 if (a981==1 | a982==1 | p98==1)
(6,958 real changes made)

18 .
19 .         gen any99=.
(34,781 missing values generated)

20 .         replace any99 = 0 if (a991==0 | a992==0 | p99==0)
(24,630 real changes made)

21 .         replace any99 = 1 if (a991==1 | a992==1 | p99==1)
(9,056 real changes made)

22 .
23 . ****TABLE 5,6****
24 .
25 .         * Girls < 13
26 .                 * Any medical treatment in 1998
27 .                         bys wgrp: tab any98 if elg98 == 1
```

-> wgrp = 1

any98	Freq.	Percent	Cum.
0	**1,951**	**22.56**	**22.56**
1	**6,697**	**77.44**	**100.00**
Total	**8,648**	**100.00**	

-> wgrp = 2

any98	Freq.	Percent	Cum.
0	**8,534**	**100.00**	**100.00**
Total	**8,534**	**100.00**	

-> wgrp = 3

any98	Freq.	Percent	Cum.
0	**8,047**	**100.00**	**100.00**
Total	**8,047**	**100.00**	

```
28 .                 * Albendazole
29 .                         bys wgrp: tab a981  if elg98 == 1
```

-> wgrp = 1

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**2,729**	**31.56**	**31.56**
1	**5,919**	**68.44**	**100.00**
Total	**8,648**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**8,534**	**100.00**	**100.00**
Total	**8,534**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**8,047**	**100.00**	**100.00**
Total	**8,047**	**100.00**	

```
30 .                * Praziquantel
31 .                        tab p98 if elg98 == 1 &  wgrp1==1 & psch98==1
```

Treated with praziquantel in 1998	Freq.	Percent	Cum.
0	**806**	**36.21**	**36.21**
1	**1,420**	**63.79**	**100.00**
Total	**2,226**	**100.00**	

```
32 .                        tab p98 if elg98 == 1 & wgrp2==1
no observations

33 .                        tab p98 if elg98 == 1 & wgrp3==1
no observations

34 .                * Albendazole
35 .                        bys wgrp: tab a982  if elg98 == 1
```

-> wgrp = 1

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**3,831**	**44.30**	**44.30**
1	**4,817**	**55.70**	**100.00**
Total	**8,648**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**8,534**	**100.00**	**100.00**
Total	**8,534**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**8,047**	**100.00**	**100.00**
Total	**8,047**	**100.00**	

```
36 .
37 .         * Girls >= 13
38 .                 * Any medical treatment in 1998
39 .                         bys wgrp: tab any98 if elg98==0
```

-> wgrp = 1

any98	Freq.	Percent	Cum.
0	**1,039**	**80.42**	**80.42**
1	**253**	**19.58**	**100.00**
Total	**1,292**	**100.00**	

-> wgrp = 2

any98	Freq.	Percent	Cum.
0	**1,239**	**100.00**	**100.00**
Total	**1,239**	**100.00**	

-> wgrp = 3

any98	Freq.	Percent	Cum.
0	**1,236**	**100.00**	**100.00**
Total	**1,236**	**100.00**	

```
40 .                 * Albendazole
41 .                         bys wgrp: tab a981 if elg98==0
```

-> wgrp = 1

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**1,144**	**88.54**	**88.54**
1	**148**	**11.46**	**100.00**
Total	**1,292**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**1,239**	**100.00**	**100.00**
Total	**1,239**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**1,236**	**100.00**	**100.00**
Total	**1,236**	**100.00**	

```
42 .                * Praziquantel
43 .                        tab p98 if elg98==0 & wgrp1==1 & psch98==1
```

Treated with praziquantel in 1998	Freq.	Percent	Cum.
0	**175**	**65.54**	**65.54**
1	**92**	**34.46**	**100.00**
Total	**267**	**100.00**	

```
44 .                        tab p98 if elg98==0 & (wgrp2==1)
no observations

45 .                        tab p98 if elg98==0 & (wgrp3==1)
no observations

46 .                * Albendazole
47 .                        bys wgrp: tab a982 if elg98==0
```

-> wgrp = 1

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**1,202**	**93.03**	**93.03**
1	**90**	**6.97**	**100.00**
Total	**1,292**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**1,239**	**100.00**	**100.00**
Total	**1,239**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**1,236**	**100.00**	**100.00**
Total	**1,236**	**100.00**	

```
48 .
49 .
50 .
51 .         *Males*
52 .                 * Any medical treatment in 1998
53 .                         bys wgrp: tab any98 if sex981 == 1
```

-> wgrp = 1

any98	Freq.	Percent	Cum.
0	**885**	**17.20**	**17.20**
1	**4,261**	**82.80**	**100.00**
Total	**5,146**	**100.00**	

-> wgrp = 2

any98	Freq.	Percent	Cum.
0	**4,690**	**100.00**	**100.00**
Total	**4,690**	**100.00**	

-> wgrp = 3

any98	Freq.	Percent	Cum.
0	**4,428**	**100.00**	**100.00**
Total	**4,428**	**100.00**	

```
54 .
55 .                * Albendazole r1
56 .                        bys wgrp: tab a981  if sex981 == 1
```

-> wgrp = 1

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**1,323**	**25.71**	**25.71**
1	**3,823**	**74.29**	**100.00**
Total	**5,146**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**4,690**	**100.00**	**100.00**
Total	**4,690**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 1, 1998	Freq.	Percent	Cum.
0	**4,428**	**100.00**	**100.00**
Total	**4,428**	**100.00**	

```
57 .                * Praziquantel
58 .                        tab p98 if sex981 == 1 &  wgrp1==1 & psch98==1
```

Treated with praziquantel in 1998	Freq.	Percent	Cum.
0	**408**	**30.24**	**30.24**
1	**941**	**69.76**	**100.00**
Total	**1,349**	**100.00**	

```
59 .
60 .                 * Albendazole r2
61 .                         bys wgrp: tab a982  if sex982 == 1
```

-> wgrp = 1

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**2,096**	**40.73**	**40.73**
1	**3,050**	**59.27**	**100.00**
Total	**5,146**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**4,690**	**100.00**	**100.00**
Total	**4,690**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 2, 1998	Freq.	Percent	Cum.
0	**4,428**	**100.00**	**100.00**
Total	**4,428**	**100.00**	

```
62 .
63 .
64 .
65 .
66 .          * Drop pupils in standard 8 in 1998
67 .                  drop if std981==8
(1,620 observations deleted)

68 .
69 .          * Girls < 13
70 .                  * Any medical treatment in 1999
71 .                          bys wgrp: tab any99 if elg99 == 1
```

-> wgrp = 1

any99	Freq.	Percent	Cum.
0	**3,239**	**41.91**	**41.91**
1	**4,490**	**58.09**	**100.00**
Total	**7,729**	**100.00**	

-> wgrp = 2

any99	Freq.	Percent	Cum.
0	**3,532**	**45.96**	**45.96**
1	**4,153**	**54.04**	**100.00**
Total	**7,685**	**100.00**	

-> wgrp = 3

any99	Freq.	Percent	Cum.
0	**7,122**	**98.77**	**98.77**
1	**89**	**1.23**	**100.00**
Total	**7,211**	**100.00**	

```
72 .                 * Albendazole
73 .                         bys wgrp: tab a991  if elg99 == 1
```

-> wgrp = 1

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**4,329**	**56.01**	**56.01**
1	**3,400**	**43.99**	**100.00**
Total	**7,729**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**5,004**	**65.11**	**65.11**
1	**2,681**	**34.89**	**100.00**
Total	**7,685**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**7,155**	**99.22**	**99.22**
1	**56**	**0.78**	**100.00**
Total	**7,211**	**100.00**	

```
74 .                 * Praziquantel
75 .                         bys wgrp: tab p99   if elg99 == 1 & psch99==1
```

-> wgrp = 1

Treated with praziquantel in 1999	Freq.	Percent	Cum.
0	**928**	**52.52**	**52.52**
1	**839**	**47.48**	**100.00**
Total	**1,767**	**100.00**	

-> wgrp = 2

Treated with praziquantel in 1999	Freq.	Percent	Cum.
0	**2,114**	**62.09**	**62.09**
1	**1,291**	**37.91**	**100.00**
Total	**3,405**	**100.00**	

-> wgrp = 3
no observations

```
76 .                 * Albendazole
77 .                         bys wgrp: tab a992  if elg99 == 1
```

-> wgrp = 1

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	**3,713**	**48.04**	**48.04**
1	**4,016**	**51.96**	**100.00**
Total	**7,729**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	**3,856**	**50.18**	**50.18**
1	**3,829**	**49.82**	**100.00**
Total	**7,685**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	**7,128**	**98.85**	**98.85**
1	**83**	**1.15**	**100.00**
Total	**7,211**	**100.00**	

```
78 .
79 .         * Girls >= 13
80 .                 * Any medical treatment in 1999
81 .                         bys wgrp: tab any99 if elg99 == 0
```

-> wgrp = 1

any99	Freq.	Percent	Cum.
0	**1,461**	**92.70**	**92.70**
1	**115**	**7.30**	**100.00**
Total	**1,576**	**100.00**	

-> wgrp = 2

any99	Freq.	Percent	Cum.
0	**1,350**	**90.66**	**90.66**
1	**139**	**9.34**	**100.00**
Total	**1,489**	**100.00**	

-> wgrp = 3

any99	Freq.	Percent	Cum.
0	**1,466**	**99.86**	**99.86**
1	**2**	**0.14**	**100.00**
Total	**1,468**	**100.00**	

```
82 .                 * Albendazole
83 .                         bys wgrp: tab a991  if elg99 == 0
```

-> wgrp = 1

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**1,485**	**94.23**	**94.23**
1	**91**	**5.77**	**100.00**
Total	**1,576**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**1,410**	**94.69**	**94.69**
1	**79**	**5.31**	**100.00**
Total	**1,489**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**1,466**	**99.86**	**99.86**
1	**2**	**0.14**	**100.00**
Total	**1,468**	**100.00**	

```
84 .                 * Praziquantel
85 .                         bys wgrp: tab p99   if elg99 == 0 & psch99==1
```

-> wgrp = 1

Treated with praziquantel in 1999	Freq.	Percent	Cum.
0	**291**	**93.87**	**93.87**
1	**19**	**6.13**	**100.00**
Total	**310**	**100.00**	

-> wgrp = 2

Treated with praziquantel in 1999	Freq.	Percent	Cum.
0	**632**	**94.19**	**94.19**
1	**39**	**5.81**	**100.00**
Total	**671**	**100.00**	

-> wgrp = 3
no observations

```
86 .                 * Albendazole
87 .                         bys wgrp: tab a992  if elg99 == 0
```

-> wgrp = 1

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	**1,480**	**93.91**	**93.91**
1	**96**	**6.09**	**100.00**
Total	**1,576**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	**1,379**	**92.61**	**92.61**
1	**110**	**7.39**	**100.00**
Total	**1,489**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	**1,466**	**99.86**	**99.86**
1	**2**	**0.14**	**100.00**
Total	**1,468**	**100.00**	

```
88 .
89 .         *Males
90 .                 *Any medical treatment in 1999
91 .                         bys wgrp: tab any99 if sex981 == 1
```

-> wgrp = 1

any99	Freq.	Percent	Cum.
0	**1,909**	**39.91**	**39.91**
1	**2,874**	**60.09**	**100.00**
Total	**4,783**	**100.00**	

-> wgrp = 2

any99	Freq.	Percent	Cum.
0	**1,921**	**43.42**	**43.42**
1	**2,503**	**56.58**	**100.00**
Total	**4,424**	**100.00**	

-> wgrp = 3

any99	Freq.	Percent	Cum.
0	**4,061**	**98.71**	**98.71**
1	**53**	**1.29**	**100.00**
Total	**4,114**	**100.00**	

```
92 .                * Albendazole
93 .                        bys wgrp: tab a991  if sex991 == 1
```

-> wgrp = 1

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**2,603**	**54.42**	**54.42**
1	**2,180**	**45.58**	**100.00**
Total	**4,783**	**100.00**	

-> wgrp = 2

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**2,762**	**62.43**	**62.43**
1	**1,662**	**37.57**	**100.00**
Total	**4,424**	**100.00**	

-> wgrp = 3

Treated with albendazole in Round 1, 1999	Freq.	Percent	Cum.
0	**4,087**	**99.34**	**99.34**
1	**27**	**0.66**	**100.00**
Total	**4,114**	**100.00**	

```
94 .                * Praziquantel
95 .                        bys wgrp: tab p99   if sex991 == 1 & psch99==1
```

-> wgrp = 1

Treated with praziquantel in 1999	Freq.	Percent	Cum.
0	578	51.47	51.47
1	545	48.53	100.00
Total	1,123	100.00	

-> wgrp = 2

Treated with praziquantel in 1999	Freq.	Percent	Cum.
0	1,179	61.21	61.21
1	747	38.79	100.00
Total	1,926	100.00	

-> wgrp = 3
no observations

```
96 .                * Albendazole
97 .                        bys wgrp: tab a992  if sex991 == 1
```

-> wgrp = 1

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	2,242	46.87	46.87
1	2,541	53.13	100.00
Total	4,783	100.00	

-> wgrp = 2

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	2,146	48.51	48.51
1	2,278	51.49	100.00
Total	4,424	100.00	

-> wgrp = 3

Treated with albendazole in Round 2, 1999	Freq.	Percent	Cum.
0	**4,062**	**98.74**	**98.74**
1	**52**	**1.26**	**100.00**
Total	**4,114**	**100.00**	

```
98 .
end of do-file
```

```
      name:  <unnamed>
       log:  /Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/Q5.smcl
  log type:  smcl
 opened on:  10 Dec 2020, 14:30:44

1 . set more off

2 .
3 .
4 . * Incorporate data on treatment group and from pupil questionnaire
5 .         keep if visit >= 991
  (278,248 observations deleted)

6 .         keep pupid wgrp sap1 sap2 sap3 sap4 sch98v1

7 .         codebook pupid

-------------------------------------------------------------------------------
pupid                                                             Pupil ID Nu
-------------------------------------------------------------------------------

                  type:  numeric (long)

                 range:  [1071714,9146209]            units:  1
         unique values:  34,781                   missing .:  0/278,248

                  mean:   2.1e+06
             std. dev:    699078

           percentiles:        10%       25%       50%       75%       90%
                            1.2e+06   1.7e+06   2.1e+06   2.7e+06   2.9e+06

8 .         duplicates report

  Duplicates in terms of all variables

--------------------------------------
   copies | observations       surplus
----------+---------------------------
        8 |       278248        243467
--------------------------------------

9 .         duplicates drop

  Duplicates in terms of all variables

  (243,467 observations deleted)
```

```
10 .         codebook pupid
```

---

pupid **Pupil ID Nu**

```
                 type:  numeric (long)

                range:  [1071714,9146209]            units:  1
        unique values:  34,781                   missing .:  0/34,781

                 mean:   2.1e+06
            std. dev:    699087

          percentiles:        10%       25%       50%       75%       90%
                           1.2e+06   1.7e+06   2.1e+06   2.7e+06   2.9e+06
```

```
11 .
12 .         merge 1:1 pupid using "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/p
   > dta"
```

Result	# of obs.	
not matched	**20,425**	
from master	**19,728**	(_merge==1)
from using	**697**	(_merge==2)
matched	**15,053**	(_merge==3)

```
13 .
14 .         keep if _merge == 3
   (20,425 observations deleted)

15 .         drop _merge

16 .
17 .
18 . **** TABLE 5, PANEL B
19 .         tab wgrp, gen(wgrp)
```

Initial worm group, Jan 1998	Freq.	Percent	Cum.
1	**5,494**	**36.50**	**36.50**
2	**4,667**	**31.00**	**67.50**
3	**4,892**	**32.50**	**100.00**

```
      Total |     15,053      100.00
```

```
20 .         summ soften_99_39 haz99 waz_99 if wgrp==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
soften_99_39	3,535	1.960396	.5310014	1	3
haz99	3,446	-1.131872	1.04989	-5.06	3.35
waz_99	3,445	-1.252589	.7975108	-3.81	1.72

```
21 .         summ soften_99_39 haz99 waz_99 if wgrp==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
soften_99_39	2,578	1.986036	.5646065	1	3
haz99	2,472	-1.110951	1.089717	-5.78	3.84
waz_99	2,471	-1.22276	.849352	-4.97	2.15

```
22 .         drop if wgrp == 3
(4,892 observations deleted)

23 .         foreach var in soften_99_39 haz99 waz_99 {
  2.                 regress `var' wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
  3.                 }

Linear regression                               Number of obs     =      6,113
                                                F(1, 48)          =       0.88
                                                Prob > F          =     0.3535
                                                R-squared         =     0.0005
                                                Root MSE          =     .54543

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
soften_99_39 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0256396   .0273691    -0.94   0.354    -.080669    .0293897
       _cons |   1.986036   .0213796    92.89   0.000    1.943049    2.029022
------------------------------------------------------------------------------

Linear regression                               Number of obs     =      5,918
                                                F(1, 47)          =       0.12
                                                Prob > F          =     0.7253
                                                R-squared         =     0.0001
                                                Root MSE          =     1.0667

                                  (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
```

haz99	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0209211	.0591849	-0.35	0.725	-.1399857	.0981436
_cons	-1.110951	.0473009	-23.49	0.000	-1.206108	-1.015794

Linear regression

Number of obs	= 5,916
F(1, 47)	= 0.27
Prob > F	= 0.6049
R-squared	= 0.0003
Root MSE	= .81956

(Std. Err. adjusted for 48 clusters in sch98v1)

waz_99	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0298292	.0572649	-0.52	0.605	-.1450313	.0853728
_cons	-1.22276	.0475264	-25.73	0.000	-1.318371	-1.127149

```
24 .
25 .         reg soften_99_39 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Linear regression

Number of obs	= 6,113
F(1, 48)	= 0.88
Prob > F	= 0.3535
R-squared	= 0.0005
Root MSE	= .54543

(Std. Err. adjusted for 49 clusters in sch98v1)

soften_99_39	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0256396	.0273691	-0.94	0.354	-.080669	.0293897
_cons	1.986036	.0213796	92.89	0.000	1.943049	2.029022

```
26 .         reg haz99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Linear regression

Number of obs	= 5,918
F(1, 47)	= 0.12
Prob > F	= 0.7253
R-squared	= 0.0001
Root MSE	= 1.0667

(Std. Err. adjusted for 48 clusters in sch98v1)

haz99	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0209211	.0591849	-0.35	0.725	-.1399857	.0981436
_cons	-1.110951	.0473009	-23.49	0.000	-1.206108	-1.015794

```
27 .         reg waz_99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      5,916
                                                F(1, 47)          =       0.27
                                                Prob > F          =     0.6049
                                                R-squared         =     0.0003
                                                Root MSE          =     .81956

                                  (Std. Err. adjusted for 48 clusters in sch98v1)
```

waz_99	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0298292	.0572649	-0.52	0.605	-.1450313	.0853728
_cons	-1.22276	.0475264	-25.73	0.000	-1.318371	-1.127149

```
28 .
29 . **** TABLE 5, PANELS B AND C
30 .         summ clean_99_13 shoes_99_10 boilwat_99_29 if wgrp==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
clean_99_13	3,539	1.47471	.619197	1	3
shoes_99_10	3,542	2.664879	.648943	1	3
boilwat_99~9	3,539	.3882453	.4874197	0	1

```
31 .         summ clean_99_13 shoes_99_10 boilwat_99_29 if wgrp==2 | wgrp==3
```

Variable	Obs	Mean	Std. Dev.	Min	Max
clean_99_13	2,587	1.422884	.5851228	1	3
shoes_99_10	2,584	2.593653	.7318155	1	3
boilwat_99~9	2,581	.4153429	.4928766	0	1

```
32 .
33 .         drop if wgrp == 3
(0 observations deleted)

34 .         bys wgrp: summ clean_99_13 shoes_99_10 boilwat_99_29
```

```
-> wgrp = 1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
clean_99_13	3,539	1.47471	.619197	1	3
shoes_99_10	3,542	2.664879	.648943	1	3
boilwat_99~9	3,539	.3882453	.4874197	0	1

```
-> wgrp = 2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
clean_99_13	2,587	1.422884	.5851228	1	3
shoes_99_10	2,584	2.593653	.7318155	1	3
boilwat_99~9	2,581	.4153429	.4928766	0	1

```
35 .
36 .         foreach var in clean_99_13 shoes_99_10 boilwat_99_29 {
  2.                 regress `var' wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
  3.                 }

Linear regression                               Number of obs     =      6,126
                                                F(1, 48)          =       2.21
                                                Prob > F          =     0.1437
                                                R-squared         =     0.0018
                                                Root MSE          =     .60504

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
 clean_99_13 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |   .0518267   .0348663     1.49   0.144    -.0182767    .1219302
       _cons |   1.422884   .0294515    48.31   0.000     1.363667      1.4821
------------------------------------------------------------------------------

Linear regression                               Number of obs     =      6,126
                                                F(1, 48)          =       1.14
                                                Prob > F          =     0.2906
                                                R-squared         =     0.0026
                                                Root MSE          =     .68512

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
 shoes_99_10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
```

wgrp1	.0712253	.0666493	1.07	0.291	-.062782	.2052327
_cons	2.593653	.0582053	44.56	0.000	2.476624	2.710683

Linear regression Number of obs = 6,120
F(1, 48) = 1.02
Prob > F = 0.3184
R-squared = 0.0007
Root MSE = .48973

(Std. Err. adjusted for 49 clusters in sch98v1)

boilwat_99~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0270976	.0268777	-1.01	0.318	-.0811389	.0269437
_cons	.4153429	.0212808	19.52	0.000	.3725549	.4581308

```
37 .
38 .         reg clean_99_13 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Linear regression Number of obs = 6,126
F(1, 48) = 2.21
Prob > F = 0.1437
R-squared = 0.0018
Root MSE = .60504

(Std. Err. adjusted for 49 clusters in sch98v1)

clean_99_13	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0518267	.0348663	1.49	0.144	-.0182767	.1219302
_cons	1.422884	.0294515	48.31	0.000	1.363667	1.4821

```
39 .         reg shoes_99_10 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Linear regression Number of obs = 6,126
F(1, 48) = 1.14
Prob > F = 0.2906
R-squared = 0.0026
Root MSE = .68512

(Std. Err. adjusted for 49 clusters in sch98v1)

shoes_99_10	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]

```
------------------------------------------------------------------------------
       wgrp1 |   .0712253   .0666493     1.07   0.291     -.062782    .2052327
       _cons |   2.593653   .0582053    44.56   0.000     2.476624    2.710683
------------------------------------------------------------------------------
```

```
40 .         reg boilwat_99_29 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      6,120
                                                F(1, 48)          =       1.02
                                                Prob > F          =     0.3184
                                                R-squared         =     0.0007
                                                Root MSE          =     .48973

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
boilwat_99~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0270976   .0268777    -1.01   0.318    -.0811389    .0269437
       _cons |   .4153429   .0212808    19.52   0.000     .3725549    .4581308
------------------------------------------------------------------------------
```

```
41 .
42 . * Incorporate data on eligibility and parasitological exams
43 .         use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/namelist.dta", clea

44 .         keep if visit==981
(521,715 observations deleted)

45 .         keep pupid sch98v1 wgrp elg98 elg99

46 .         sort pupid

47 .         save "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/f1.dta", replace
file /Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/f1.dta saved

48 .
49 .         use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed.dta", clear

50 .         sort pupid

51 .         merge pupid using "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/f1.dt
(note: you are using old merge syntax; see [D] merge for new syntax)
(label sch_label already defined)

52 .         tab _merge

     _merge |      Freq.     Percent        Cum.
------------+-----------------------------------
```

1	**137**	**0.39**	**0.39**
2	**30,900**	**88.49**	**88.89**
3	**3,881**	**11.11**	**100.00**
Total	**34,918**	**100.00**	

```
53 .         keep if _merge==3
   (31,037 observations deleted)

54 .         drop _merge

55 .
56 . **** TABLE 5, PANEL A
57 .         gen wgrp1 = (wgrp==1)

58 .         gen wgrp2 = (wgrp==2)

59 .         gen wgrp3 = (wgrp==3)

60 .
61 . * create schistosomiasis infection rate
62 .         gen sm99 = (sm99_a + sm99_b)*10
   (1,533 missing values generated)

63 .         gen modheavy_sm99= (sm99>250) if sm99 !=.
   (1,533 missing values generated)

64 .         gen any_sm99= (sm99>0) if sm99 !=.
   (1,533 missing values generated)

65 .
66 . * create Hookworm infection rate
67 .         gen hw99= (hw99_a+ hw99_b) *10
   (1,533 missing values generated)

68 .         gen modheavy_hw99= (hw99>750) if hw99 !=.
   (1,533 missing values generated)

69 .         gen any_hw99=(hw99>0) if hw99 !=.
   (1,533 missing values generated)

70 .
71 . * create Roundworm infection rate
72 .         gen rw99= (al99_a+ al99_b) *10
   (1,533 missing values generated)

73 .         gen modheavy_rw99= (rw99>5000) if rw99 !=.
   (1,533 missing values generated)
```

```
74 .         gen any_rw99= (rw99>0) if rw99 !=.
   (1,533 missing values generated)

75 .
76 . * create Whipworm infection rate
77 .         gen ww99= (tt99_a+ tt99_b) *10
   (1,541 missing values generated)

78 .         gen modheavy_ww99= (ww99>400) if ww99 !=.
   (1,541 missing values generated)

79 .         gen any_ww99= (ww99>0) if ww99 !=.
   (1,541 missing values generated)

80 .
81 . * create any moderate-heavy infection rate
82 .         egen any_modheavy99= rowtotal (modheavy_sm99 modheavy_hw99 modheavy_rw99 modheav
   > 99), m
   (1529 missing values generated)

83 .         replace any_modheavy99=1 if any_modheavy99>0 & !missing(any_modheavy99)
   (373 real changes made)

84 .
85 . summ  ww99 sm99 hw99 rw99 if wgrp==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
ww99	**864**	**268.8657**	**957.2916**	**0**	**14040**
sm99	**869**	**116.7664**	**582.2418**	**0**	**9070**
hw99	**867**	**231.5802**	**1078.126**	**0**	**20040**
rw99	**869**	**1589.344**	**5004.206**	**0**	**25720**

```
86 . summ  any_modheavy99 modheavy_sm99 modheavy_hw99 modheavy_rw99 modheavy_ww99 if wgrp==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_modhe~99	**869**	**.2658228**	**.4420247**	**0**	**1**
modheavy_s~9	**869**	**.0794016**	**.2705203**	**0**	**1**
modheavy_h~9	**867**	**.0588235**	**.2354299**	**0**	**1**
modheavy_r~9	**869**	**.0932106**	**.2908947**	**0**	**1**
modheavy_w~9	**864**	**.1238426**	**.3295927**	**0**	**1**

```
87 . summ  any_modheavy99 modheavy_sm99 modheavy_hw99 modheavy_rw99 modheavy_ww99 if wgrp==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_modhe~99	**1,482**	**.5209177**	**.4997309**	**0**	**1**
modheavy_s~9	**1,478**	**.1759134**	**.3808753**	**0**	**1**

```
modheavy_h~9 |      1,480    .2155405    .4113358          0          1
modheavy_r~9 |      1,478    .2428958    .4289778          0          1
modheavy_w~9 |      1,475    .1708475    .3765033          0          1

88 .         foreach var in any_modheavy99 modheavy_sm99 modheavy_hw99 modheavy_rw99 modheavy
> 9 {
  2.                 regress `var' wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
  3.                 }

Linear regression                               Number of obs     =      2,351
                                                F(1, 48)          =      16.94
                                                Prob > F          =     0.0002
                                                R-squared         =     0.0620
                                                Root MSE          =     .47922

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
any_modhe~99 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.2550949   .0619768    -4.12   0.000    -.3797076   -.1304822
       _cons |   .5209177   .0486023    10.72   0.000     .4231963    .6186391
------------------------------------------------------------------------------

Linear regression                               Number of obs     =      2,347
                                                F(1, 48)          =       2.89
                                                Prob > F          =     0.0954
                                                R-squared         =     0.0180
                                                Root MSE          =     .34418

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
modheavy_s~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0965118   .0567346    -1.70   0.095    -.2105843    .0175607
       _cons |   .1759134   .0479582     3.67   0.001     .0794871    .2723397
------------------------------------------------------------------------------

Linear regression                               Number of obs     =      2,347
                                                F(1, 48)          =      39.90
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0431
                                                Root MSE          =     .35663

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
modheavy_h~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
```

wgrp1	-.156717	.0248091	-6.32	0.000	-.206599	-.106835
_cons	.2155405	.0227097	9.49	0.000	.1698795	.2612016

Linear regression Number of obs = 2,347
F(1, 48) = 11.48
Prob > F = 0.0014
R-squared = 0.0343
Root MSE = .3837

(Std. Err. adjusted for 49 clusters in sch98v1)

modheavy_r~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.1496852	.0441702	-3.39	0.001	-.2384953	-.0608751
_cons	.2428958	.0374456	6.49	0.000	.1676065	.3181852

Linear regression Number of obs = 2,339
F(1, 48) = 0.77
Prob > F = 0.3854
R-squared = 0.0040
Root MSE = .35989

(Std. Err. adjusted for 49 clusters in sch98v1)

modheavy_w~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0470049	.0536567	-0.88	0.385	-.1548888	.0608791
_cons	.1708475	.0474541	3.60	0.001	.0754345	.2662604

```
89 .
90 . *the codes above equals to the following codes
91 . reg any_modheavy99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Linear regression Number of obs = 2,351
F(1, 48) = 16.94
Prob > F = 0.0002
R-squared = 0.0620
Root MSE = .47922

(Std. Err. adjusted for 49 clusters in sch98v1)

any_modhe~99	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]

wgrp1	-.2550949	.0619768	-4.12	0.000	-.3797076	-.1304822
_cons	.5209177	.0486023	10.72	0.000	.4231963	.6186391

92 . reg modheavy_sm99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression

Number of obs	= 2,347
F(1, 48)	= 2.89
Prob > F	= 0.0954
R-squared	= 0.0180
Root MSE	= .34418

(Std. Err. adjusted for 49 clusters in sch98v1)

modheavy_s~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0965118	.0567346	-1.70	0.095	-.2105843	.0175607
_cons	.1759134	.0479582	3.67	0.001	.0794871	.2723397

93 . reg modheavy_hw99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression

Number of obs	= 2,347
F(1, 48)	= 39.90
Prob > F	= 0.0000
R-squared	= 0.0431
Root MSE	= .35663

(Std. Err. adjusted for 49 clusters in sch98v1)

modheavy_h~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.156717	.0248091	-6.32	0.000	-.206599	-.106835
_cons	.2155405	.0227097	9.49	0.000	.1698795	.2612016

94 . reg modheavy_rw99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression

Number of obs	= 2,347
F(1, 48)	= 11.48
Prob > F	= 0.0014
R-squared	= 0.0343
Root MSE	= .3837

(Std. Err. adjusted for 49 clusters in sch98v1)

modheavy_r~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.1496852	.0441702	-3.39	0.001	-.2384953	-.0608751
_cons	.2428958	.0374456	6.49	0.000	.1676065	.3181852

```
 95 . reg modheavy_ww99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      2,339
                                                F(1, 48)          =       0.77
                                                Prob > F          =     0.3854
                                                R-squared         =     0.0040
                                                Root MSE          =     .35989

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
```

modheavy_w~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	-.0470049	.0536567	-0.88	0.385	-.1548888	.0608791
_cons	.1708475	.0474541	3.60	0.001	.0754345	.2662604

```
 96 .
 97 . **** TABLE 5, PANEL B: HB AND ANEMIA ONLY
 98 . * Generate low HB indicator
 99 .         gen hb100 = (hb<100)

100 .         replace hb100=. if hb==.
(3,005 real changes made, 3,005 to missing)

101 .
102 .         summ hb hb100 if wgrp==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
hb	332	124.8102	13.51904	75	159
hb100	332	.0180723	.133414	0	1

```
103 .         summ hb hb100 if wgrp==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
hb	544	123.0386	13.7132	69	160
hb100	544	.0386029	.192824	0	1

```
104 .         foreach var in hb hb100 {
  2.                 regress `var' wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

```
  3.                 }
```

Linear regression — Number of obs = **876**; F(1, 36) = **2.03**; Prob > F = **0.1625**; R-squared = **0.0040**; Root MSE = **13.64**

(Std. Err. adjusted for **37** clusters in sch98v1)

hb	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**1.771638**	**1.242572**	**1.43**	**0.163**	**-.7484143**	**4.29169**
_cons	**123.0386**	**.6737509**	**182.62**	**0.000**	**121.6722**	**124.405**

Linear regression — Number of obs = **876**; F(1, 36) = **2.58**; Prob > F = **0.1166**; R-squared = **0.0033**; Root MSE = **.17275**

(Std. Err. adjusted for **37** clusters in sch98v1)

hb100	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**-.0205307**	**.01277**	**-1.61**	**0.117**	**-.0464294**	**.0053681**
_cons	**.0386029**	**.0090473**	**4.27**	**0.000**	**.0202542**	**.0569517**

```
105 .
106 .         reg hb wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Linear regression — Number of obs = **876**; F(1, 36) = **2.03**; Prob > F = **0.1625**; R-squared = **0.0040**; Root MSE = **13.64**

(Std. Err. adjusted for **37** clusters in sch98v1)

hb	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**1.771638**	**1.242572**	**1.43**	**0.163**	**-.7484143**	**4.29169**
_cons	**123.0386**	**.6737509**	**182.62**	**0.000**	**121.6722**	**124.405**

```
107 .         reg hb100 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =        876
                                                F(1, 36)          =       2.58
                                                Prob > F          =     0.1166
                                                R-squared         =     0.0033
                                                Root MSE          =     .17275

                                  (Std. Err. adjusted for 37 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
      hb100 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
------------------------------------------------------------------------------
      wgrp1 |  -.0205307     .01277    -1.61   0.117    -.0464294    .0053681
      _cons |   .0386029   .0090473     4.27   0.000     .0202542    .0569517
------------------------------------------------------------------------------

108 .
109 .
110 .
111 . ****** For subsample- Eligible Male Pupils ****************
112 . use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/namelist.dta", clear

113 . keep if sex==1
(311,008 observations deleted)

114 . set more off

115 .
116 . * Incorporate data on treatment group and from pupil questionnaire
117 .         keep if visit >= 991
(122,744 observations deleted)

118 .
119 .         keep pupid wgrp sap1 sap2 sap3 sap4 sch98v1

120 .         codebook pupid

-------------------------------------------------------------------------------
pupid                                                          Pupil ID Nu
-------------------------------------------------------------------------------

                  type:  numeric (long)

                 range:  [1080007,9146209]            units:  1
         unique values:  15,343                   missing .:  0/122,744

                  mean:   2.2e+06
```

```
                  std. dev:    645400

                percentiles:        10%       25%       50%       75%       90%
                                 1.2e+06   1.7e+06   2.1e+06   2.7e+06   2.9e+06
```

```
121 .         duplicates report

    Duplicates in terms of all variables
```

copies	observations	surplus
8	**122744**	**107401**

```
122 .         duplicates drop

    Duplicates in terms of all variables

    (107,401 observations deleted)

123 .         codebook pupid
```

---

pupid **Pupil ID Nu**

```
                    type:  numeric (long)

                   range:  [1080007,9146209]            units:  1
             unique values:  15,343                  missing .:  0/15,343

                    mean:   2.2e+06
                  std. dev:    645418

                percentiles:        10%       25%       50%       75%       90%
                                 1.2e+06   1.7e+06   2.1e+06   2.7e+06   2.9e+06

124 .
125 .         merge 1:1 pupid using "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/p
    > dta"

    Result                           # of obs.
    -----------------------------------------
    not matched                        15,711
        from master                     7,652  (_merge==1)
        from using                      8,059  (_merge==2)

    matched                             7,691  (_merge==3)
```

```
126 .
127 .         keep if _merge == 3
    (15,711 observations deleted)

128 .         drop _merge

129 .
130 .
131 . **** TABLE 5, PANEL B
132 .         tab wgrp, gen(wgrp)
```

Initial worm group, Jan 1998	Freq.	Percent	Cum.
1	**2,945**	**38.29**	**38.29**
2	**2,307**	**30.00**	**68.29**
3	**2,439**	**31.71**	**100.00**
Total	**7,691**	**100.00**	

```
133 .         summ soften_99_39 haz99 waz_99 if wgrp==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
soften_99_39	**1,896**	**1.955169**	**.5244368**	**1**	**3**
haz99	**1,845**	**-1.322878**	**1.016409**	**-5.06**	**3.35**
waz_99	**1,844**	**-1.448823**	**.7790825**	**-3.81**	**1.72**

```
134 .         summ soften_99_39 haz99 waz_99 if wgrp==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
soften_99_39	**1,285**	**1.955642**	**.5626426**	**1**	**3**
haz99	**1,255**	**-1.399498**	**1.028373**	**-5.78**	**3.84**
waz_99	**1,254**	**-1.504458**	**.8143854**	**-3.54**	**2.15**

```
135 .         drop if wgrp == 3
    (2,439 observations deleted)

136 .         foreach var in soften_99_39 haz99 waz_99 {
  2.                 regress `var' wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
  3.                 }

    Linear regression                               Number of obs     =      3,181
                                                    F(1, 44)          =       0.00
                                                    Prob > F          =     0.9896
```

```
                                                R-squared         =     0.0000
                                                Root MSE          =     .54019

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
soften_99_39 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0004732   .0360748    -0.01   0.990    -.0731773    .0722308
       _cons |   1.955642   .0306718    63.76   0.000     1.893827    2.017457
------------------------------------------------------------------------------

Linear regression                               Number of obs     =      3,100
                                                F(1, 44)          =       2.27
                                                Prob > F          =     0.1391
                                                R-squared         =     0.0014
                                                Root MSE          =     1.0213

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
      haz99  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |     .07662   .0508553     1.51   0.139    -.0258721     .179112
       _cons |  -1.399498    .040005   -34.98   0.000    -1.480123   -1.318873
------------------------------------------------------------------------------

Linear regression                               Number of obs     =      3,098
                                                F(1, 44)          =       0.92
                                                Prob > F          =     0.3427
                                                R-squared         =     0.0012
                                                Root MSE          =     .79356

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
     waz_99  |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |   .0556345   .0580004     0.96   0.343    -.0612576    .1725267
       _cons |  -1.504458    .047212   -31.87   0.000    -1.599607   -1.409308
------------------------------------------------------------------------------

137 .
138 .         reg soften_99_39 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      3,181
                                                F(1, 44)          =       0.00
                                                Prob > F          =     0.9896
                                                R-squared         =     0.0000
```

```
                                                Root MSE          =     .54019

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
soften_99_39 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0004732   .0360748    -0.01   0.990    -.0731773    .0722308
       _cons |   1.955642   .0306718    63.76   0.000     1.893827    2.017457
------------------------------------------------------------------------------

139 .         reg haz99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      3,100
                                                F(1, 44)          =       2.27
                                                Prob > F          =     0.1391
                                                R-squared         =     0.0014
                                                Root MSE          =     1.0213

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
       haz99 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |     .07662   .0508553     1.51   0.139    -.0258721     .179112
       _cons |  -1.399498    .040005   -34.98   0.000    -1.480123   -1.318873
------------------------------------------------------------------------------

140 .         reg waz_99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      3,098
                                                F(1, 44)          =       0.92
                                                Prob > F          =     0.3427
                                                R-squared         =     0.0012
                                                Root MSE          =     .79356

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
      waz_99 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |   .0556345   .0580004     0.96   0.343    -.0612576    .1725267
       _cons |  -1.504458    .047212   -31.87   0.000    -1.599607   -1.409308
------------------------------------------------------------------------------

141 .
142 .
143 . **** TABLE 5, PANELS B AND C
144 .         summ clean_99_13 shoes_99_10 boilwat_99_29 if wgrp==1
```

```
    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
 clean_99_13 |      1,898    1.575342    .6661188         1          3
 shoes_99_10 |      1,897    2.744333    .5686063         1          3
boilwat_99~9 |      1,897    .3763838    .4846058         0          1

145 .         summ clean_99_13 shoes_99_10 boilwat_99_29 if wgrp==2 | wgrp==3

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
 clean_99_13 |      1,291    1.505035    .6180221         1          3
 shoes_99_10 |      1,289      2.7564    .5774688         1          3
boilwat_99~9 |      1,286     .403577    .4908054         0          1

146 .
147 .         drop if wgrp == 3
    (0 observations deleted)

148 .         bys wgrp: summ clean_99_13 shoes_99_10 boilwat_99_29

-------------------------------------------------------------------------------
-> wgrp = 1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
 clean_99_13 |      1,898    1.575342    .6661188         1          3
 shoes_99_10 |      1,897    2.744333    .5686063         1          3
boilwat_99~9 |      1,897    .3763838    .4846058         0          1

-------------------------------------------------------------------------------
-> wgrp = 2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
 clean_99_13 |      1,291    1.505035    .6180221         1          3
 shoes_99_10 |      1,289      2.7564    .5774688         1          3
boilwat_99~9 |      1,286     .403577    .4908054         0          1


149 .
150 .         foreach var in clean_99_13 shoes_99_10 boilwat_99_29 {
  2.                 regress `var' wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
  3.                 }

Linear regression                               Number of obs     =      3,189
                                                F(1, 44)          =       3.33
                                                Prob > F          =     0.0746
                                                R-squared         =     0.0028
```

```
                                                Root MSE          =     .64708

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
 clean_99_13 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |   .0703076   .0385031     1.83   0.075    -.0072903    .1479055
       _cons |   1.505035   .0299577    50.24   0.000     1.444659    1.565411
------------------------------------------------------------------------------

Linear regression                               Number of obs     =      3,186
                                                F(1, 44)          =       0.06
                                                Prob > F          =     0.8148
                                                R-squared         =     0.0001
                                                Root MSE          =     .57221

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
 shoes_99_10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0120672   .0511977    -0.24   0.815    -.1152493     .091115
       _cons |     2.7564   .0417472    66.03   0.000     2.672264    2.840536
------------------------------------------------------------------------------

Linear regression                               Number of obs     =      3,183
                                                F(1, 44)          =       0.78
                                                Prob > F          =     0.3825
                                                R-squared         =     0.0008
                                                Root MSE          =     .48712

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
boilwat_99~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0271932   .0308248    -0.88   0.382    -.0893165    .0349301
       _cons |    .403577    .025171    16.03   0.000     .3528482    .4543058
------------------------------------------------------------------------------

151 .
152 .         reg clean_99_13 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      3,189
                                                F(1, 44)          =       3.33
                                                Prob > F          =     0.0746
                                                R-squared         =     0.0028
                                                Root MSE          =     .64708
```

(Std. Err. adjusted for **45** clusters in sch98v1)

clean_99_13	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**.0703076**	**.0385031**	**1.83**	**0.075**	**-.0072903**	**.1479055**
_cons	**1.505035**	**.0299577**	**50.24**	**0.000**	**1.444659**	**1.565411**

```
153 .         reg shoes_99_10 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      3,186
                                                F(1, 44)          =       0.06
                                                Prob > F          =     0.8148
                                                R-squared         =     0.0001
                                                Root MSE          =     .57221

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
 shoes_99_10 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0120672   .0511977    -0.24   0.815    -.1152493     .091115
       _cons |     2.7564   .0417472    66.03   0.000     2.672264    2.840536
------------------------------------------------------------------------------

154 .         reg boilwat_99_29 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      3,183
                                                F(1, 44)          =       0.78
                                                Prob > F          =     0.3825
                                                R-squared         =     0.0008
                                                Root MSE          =     .48712

                                (Std. Err. adjusted for 45 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
boilwat_99~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0271932   .0308248    -0.88   0.382    -.0893165    .0349301
       _cons |    .403577    .025171    16.03   0.000     .3528482    .4543058
------------------------------------------------------------------------------

155 .
156 . * Incorporate data on eligibility and parasitological exams
157 .         use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/namelist.dta", clea

158 .         keep if sex==1
```

```
    (311,008 observations deleted)

159 .         keep if visit==981
    (230,145 observations deleted)

160 .         keep pupid sch98v1 wgrp elg98 elg99

161 .         sort pupid

162 .         save "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/f1.dta", replace
    file /Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/f1.dta saved

163 .
164 .         use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed.dta"

165 .         sort pupid

166 .         merge pupid using "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/f1.dt
    (note: you are using old merge syntax; see [D] merge for new syntax)
    (label sch_label already defined)

167 .         tab _merge
```

_merge	Freq.	Percent	Cum.
1	**2,002**	**11.54**	**11.54**
2	**13,327**	**76.83**	**88.38**
3	**2,016**	**11.62**	**100.00**
Total	**17,345**	**100.00**	

```
168 .         keep if _merge==3
    (15,329 observations deleted)

169 .         drop _merge

170 .
171 . **** TABLE 5, PANEL A
172 .         gen wgrp1 = (wgrp==1)

173 .         gen wgrp2 = (wgrp==2)

174 .         gen wgrp3 = (wgrp==3)

175 .
176 . * create schistosomiasis infection rate
177 .         gen sm99 = (sm99_a + sm99_b)*10
    (821 missing values generated)
```

```
178 .         gen modheavy_sm99= (sm99>250) if sm99 !=.
    (821 missing values generated)

179 .         gen any_sm99= (sm99>0) if sm99 !=.
    (821 missing values generated)

180 .
181 . * create Hookworm infection rate
182 .         gen hw99= (hw99_a+ hw99_b) *10
    (821 missing values generated)

183 .         gen modheavy_hw99= (hw99>750) if hw99 !=.
    (821 missing values generated)

184 .         gen any_hw99=(hw99>0) if hw99 !=.
    (821 missing values generated)

185 .
186 . * create Roundworm infection rate
187 .         gen rw99= (al99_a+ al99_b) *10
    (819 missing values generated)

188 .         gen modheavy_rw99= (rw99>5000) if rw99 !=.
    (819 missing values generated)

189 .         gen any_rw99= (rw99>0) if rw99 !=.
    (819 missing values generated)

190 .
191 . * create Whipworm infection rate
192 .         gen ww99= (tt99_a+ tt99_b) *10
    (828 missing values generated)

193 .         gen modheavy_ww99= (ww99>400) if ww99 !=.
    (828 missing values generated)

194 .         gen any_ww99= (ww99>0) if ww99 !=.
    (828 missing values generated)

195 .
196 . * create any moderate-heavy infection rate
197 .         egen any_modheavy99= rowtotal (modheavy_sm99 modheavy_hw99 modheavy_rw99 modheav
    > 99), m
    (818 missing values generated)

198 .         replace any_modheavy99=1 if any_modheavy99>0 & !missing(any_modheavy99)
    (187 real changes made)

199 .
```

```
200 .
201 . summ  ww99 sm99 hw99 rw99 if wgrp==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
ww99	473	253.8901	876.6501	0	12400
sm99	478	147.9707	734.3565	0	9070
hw99	476	159.8739	497.5426	0	5900
rw99	478	1226.13	4201.544	0	25500

```
202 . summ  any_modheavy99 modheavy_sm99 modheavy_hw99 modheavy_rw99 modheavy_ww99 if wgrp==1
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_modhe~99	478	.251046	.4340692	0	1
modheavy_s~9	478	.0899582	.2864216	0	1
modheavy_h~9	476	.0504202	.2190406	0	1
modheavy_r~9	478	.08159	.2740258	0	1
modheavy_w~9	473	.1226216	.3283496	0	1

```
203 . summ  any_modheavy99 modheavy_sm99 modheavy_hw99 modheavy_rw99 modheavy_ww99 if wgrp==2
```

Variable	Obs	Mean	Std. Dev.	Min	Max
any_modhe~99	719	.5368567	.4989869	0	1
modheavy_s~9	716	.1829609	.3869047	0	1
modheavy_h~9	718	.2576602	.4376507	0	1
modheavy_r~9	718	.218663	.4136275	0	1
modheavy_w~9	714	.1680672	.3741881	0	1

```
204 .         foreach var in any_modheavy99 modheavy_sm99 modheavy_hw99 modheavy_rw99 modheavy
> 9 {
  2.                 regress `var' wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
  3.                 }

Linear regression                               Number of obs     =      1,197
                                                F(1, 47)          =      21.04
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0803
                                                Root MSE          =     .47414

                                  (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
any_modhe~99 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.2858107   .0623063    -4.59   0.000    -.4111548   -.1604667
       _cons |   .5368567   .0494545    10.86   0.000      .437367    .6363465
------------------------------------------------------------------------------
```

Linear regression

Number of obs	**1,194**
F(1, 47)	**2.13**
Prob > F	**0.1513**
R-squared	**0.0167**
Root MSE	**.35017**

(Std. Err. adjusted for **48** clusters in sch98v1)

modheavy_s~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**-.0930027**	**.0637529**	**-1.46**	**0.151**	**-.221257**	**.0352516**
_cons	**.1829609**	**.0537913**	**3.40**	**0.001**	**.0747468**	**.2911749**

Linear regression

Number of obs	**1,194**
F(1, 47)	**45.51**
Prob > F	**0.0000**
R-squared	**0.0713**
Root MSE	**.36651**

(Std. Err. adjusted for **48** clusters in sch98v1)

modheavy_h~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**-.20724**	**.0307202**	**-6.75**	**0.000**	**-.2690411**	**-.1454389**
_cons	**.2576602**	**.0264364**	**9.75**	**0.000**	**.2044769**	**.3108434**

Linear regression

Number of obs	**1,196**
F(1, 47)	**10.49**
Prob > F	**0.0022**
R-squared	**0.0329**
Root MSE	**.36433**

(Std. Err. adjusted for **48** clusters in sch98v1)

modheavy_r~9	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**-.137073**	**.0423278**	**-3.24**	**0.002**	**-.2222256**	**-.0519204**
_cons	**.218663**	**.0370667**	**5.90**	**0.000**	**.1440943**	**.2932316**

Linear regression

Number of obs	**1,187**
F(1, 47)	**0.62**
Prob > F	**0.4335**

```
                                                R-squared         =     0.0039
                                                Root MSE          =     .35664

                                (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
modheavy_w~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0454457   .0575248    -0.79   0.433    -.1611705    .0702792
       _cons |   .1680672   .0517353     3.25   0.002     .0639893    .2721451
------------------------------------------------------------------------------

205 .
206 . reg any_modheavy99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      1,197
                                                F(1, 47)          =      21.04
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0803
                                                Root MSE          =     .47414

                                (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
any_modhe~99 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.2858107   .0623063    -4.59   0.000    -.4111548   -.1604667
       _cons |   .5368567   .0494545    10.86   0.000      .437367    .6363465
------------------------------------------------------------------------------

207 . reg modheavy_sm99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      1,194
                                                F(1, 47)          =       2.13
                                                Prob > F          =     0.1513
                                                R-squared         =     0.0167
                                                Root MSE          =     .35017

                                (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
modheavy_s~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0930027   .0637529    -1.46   0.151     -.221257    .0352516
       _cons |   .1829609   .0537913     3.40   0.001     .0747468    .2911749
------------------------------------------------------------------------------

208 . reg modheavy_hw99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

```
Linear regression                               Number of obs     =      1,194
                                                F(1, 47)          =      45.51
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0713
                                                Root MSE          =     .36651

                                  (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
modheavy_h~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |    -.20724   .0307202    -6.75   0.000    -.2690411   -.1454389
       _cons |   .2576602   .0264364     9.75   0.000     .2044769    .3108434
------------------------------------------------------------------------------
```

```
209 . reg modheavy_rw99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      1,196
                                                F(1, 47)          =      10.49
                                                Prob > F          =     0.0022
                                                R-squared         =     0.0329
                                                Root MSE          =     .36433

                                  (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
modheavy_r~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |   -.137073   .0423278    -3.24   0.002    -.2222256   -.0519204
       _cons |    .218663   .0370667     5.90   0.000     .1440943    .2932316
------------------------------------------------------------------------------
```

```
210 . reg modheavy_ww99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Linear regression                               Number of obs     =      1,187
                                                F(1, 47)          =       0.62
                                                Prob > F          =     0.4335
                                                R-squared         =     0.0039
                                                Root MSE          =     .35664

                                  (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
modheavy_w~9 |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.0454457   .0575248    -0.79   0.433    -.1611705    .0702792
       _cons |   .1680672   .0517353     3.25   0.002     .0639893    .2721451
------------------------------------------------------------------------------
```

```
211 .
212 .
213 . **** TABLE 5, PANEL B: HB AND ANEMIA ONLY
214 . * Generate low HB indicator
215 .         gen hb100 = (hb<100)

216 .         replace hb100=. if hb==.
    (1,579 real changes made, 1,579 to missing)

217 .
218 .         summ hb hb100 if wgrp==1

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
          hb |        172    125.6512     13.3147        87        159
       hb100 |        172    .005814    .0762493         0          1

219 .         summ hb hb100 if wgrp==2

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
          hb |        265    122.6566    13.95308        80        160
       hb100 |        265    .0377358    .1909173         0          1

220 .         foreach var in hb hb100 {
  2.                 regress `var' wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
  3.                 }

Linear regression                               Number of obs     =        437
                                                F(1, 35)          =       3.73
                                                Prob > F          =     0.0614
                                                R-squared         =     0.0113
                                                Root MSE          =     13.706

                                  (Std. Err. adjusted for 36 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
          hb |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |    2.994559   1.549643     1.93   0.061    -.151384    6.140502
       _cons |    122.6566   .6784378   180.79   0.000     121.2793    124.0339
------------------------------------------------------------------------------

Linear regression                               Number of obs     =        437
                                                F(1, 35)          =       4.86
                                                Prob > F          =     0.0342
                                                R-squared         =     0.0099
                                                Root MSE          =     .15623
```

(Std. Err. adjusted for **36** clusters in sch98v1)

hb100	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**-.0319219**	**.0144832**	**-2.20**	**0.034**	**-.0613244**	**-.0025194**
_cons	**.0377358**	**.013361**	**2.82**	**0.008**	**.0106115**	**.0648602**

```
221 .
222 .         reg hb wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Linear regression

Number of obs	=	**437**
F(1, 35)	=	**3.73**
Prob > F	=	**0.0614**
R-squared	=	**0.0113**
Root MSE	=	**13.706**

(Std. Err. adjusted for **36** clusters in sch98v1)

hb	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**2.994559**	**1.549643**	**1.93**	**0.061**	**-.151384**	**6.140502**
_cons	**122.6566**	**.6784378**	**180.79**	**0.000**	**121.2793**	**124.0339**

```
223 .         reg hb100 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Linear regression

Number of obs	=	**437**
F(1, 35)	=	**4.86**
Prob > F	=	**0.0342**
R-squared	=	**0.0099**
Root MSE	=	**.15623**

(Std. Err. adjusted for **36** clusters in sch98v1)

hb100	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**-.0319219**	**.0144832**	**-2.20**	**0.034**	**-.0613244**	**-.0025194**
_cons	**.0377358**	**.013361**	**2.82**	**0.008**	**.0106115**	**.0648602**

```
224 .
end of do-file
```

```
      name:  <unnamed>
       log:  /Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/Q6/Q6.smcl
  log type:  smcl
 opened on:  10 Dec 2020, 14:29:41

 1 . set more off

 2 .
 3 . * create schistosomiasis infection rate
 4 .         gen sm99 = (sm99_a + sm99_b)*10
   (1,578 missing values generated)

 5 .         gen modheavy_sm99= (sm99>250) if sm99 !=.
   (1,578 missing values generated)

 6 .         gen any_sm99= (sm99>0) if sm99 !=.
   (1,578 missing values generated)

 7 .
 8 . * create Hookworm infection rate
 9 .         gen hw99= (hw99_a+ hw99_b) *10
   (1,577 missing values generated)

10 .         gen modheavy_hw99= (hw99>750) if hw99 !=.
   (1,577 missing values generated)

11 .         gen any_hw99=(hw99>0) if hw99 !=.
   (1,577 missing values generated)

12 .
13 . * create Roundworm infection rate
14 .         gen rw99= (al99_a+ al99_b) *10
   (1,577 missing values generated)

15 .         gen modheavy_rw99= (rw99>5000) if rw99 !=.
   (1,577 missing values generated)

16 .         gen any_rw99= (rw99>0) if rw99 !=.
   (1,577 missing values generated)

17 .
18 . * create Whipworm infection rate
19 .         gen ww99= (tt99_a+ tt99_b) *10
   (1,585 missing values generated)

20 .         gen modheavy_ww99= (ww99>400) if ww99 !=.
   (1,585 missing values generated)
```

```
21 .         gen any_ww99= (ww99>0) if ww99 !=.
   (1,585 missing values generated)

22 .
23 . * create any moderate-heavy infection rate
24 .         egen any_modheavy99= rowtotal (modheavy_sm99 modheavy_hw99 modheavy_rw99 modheav
   > 99), m
   (1573 missing values generated)

25 .         replace any_modheavy99=1 if any_modheavy99>0 & !missing(any_modheavy99)
   (399 real changes made)

26 .
27 . * create moderate-heavy geohelminth (hookworm, roundworm, or whipworm) infection rate
28 .         egen modheavy_geo99= rowtotal (modheavy_hw99 modheavy_rw99 modheavy_ww99), m
   (1573 missing values generated)

29 .         replace modheavy_geo99=1 if modheavy_geo99>0 & !missing(modheavy_geo99)
   (314 real changes made)

30 .
31 .         save "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed1.dta", repl
   file /Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed1.dta saved

32 .
33 . *Merge database: wormed1, namelist, and schoolvar
34 . *merge namelist & wormed 1 as namelistMERGEwormed1 99.dta
35 .
36 .         use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/namelist.dta", clea

37 .
38 .         keep if visit==991
   (521,715 observations deleted)

39 .         keep if elg99==1
   (6,735 observations deleted)

40 .         isid pupid

41 .         merge 1:1 pupid using "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/w
   > d1.dta"
   (label sch_label already defined)
   (label std_label already defined)

       Result                           # of obs.
       -----------------------------------------
       not matched                        26,342
           from master                    25,185  (_merge==1)
           from using                      1,157  (_merge==2)
```

```
    matched                            2,861  (_merge==3)
    -----------------------------------------
```

```
42 .         tab _merge

      _merge |      Freq.     Percent        Cum.
-------------+-----------------------------------
master only (1) |     25,185       86.24       86.24
 using only (2) |      1,157        3.96       90.20
    matched (3) |      2,861        9.80      100.00
-------------+-----------------------------------
       Total |     29,203      100.00
```

```
43 .         keep if _merge==3
(26,342 observations deleted)

44 .         codebook pupid

-------------------------------------------------------------------------------
pupid                                                                 Pupil ID Nu
-------------------------------------------------------------------------------

                  type:  numeric (long)

                 range:  [1092003,2978017]            units:  1
         unique values:  2,861                    missing .:  0/2,861

                  mean:   2.2e+06
             std. dev:    603890

           percentiles:        10%       25%       50%       75%       90%
                            1.2e+06   1.7e+06   2.2e+06   2.8e+06   2.9e+06

45 .         drop _merge

46 .
47 .         save "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed2.dta", repl
file /Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed2.dta saved

48 .
49 .  * 1:m merge with school to control for 1996 school district exam score
50 .
51 .         use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/schoolvar.dta", cle

52 .         rename schid sch98v1

53 .         merge 1:m sch98v1 using"/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/
> ed2.dta"
```

```
    Result                           # of obs.
    -----------------------------------------
    not matched                            23
        from master                        23  (_merge==1)
        from using                          0  (_merge==2)

    matched                             2,861  (_merge==3)
    -----------------------------------------
```

```
54 .         keep if _merge==3
   (23 observations deleted)

55 .         codebook pupid
```

```
-------------------------------------------------------------------------------
pupid                                                              Pupil ID Nu
-------------------------------------------------------------------------------

                  type:  numeric (long)

                 range:  [1092003,2978017]            units:  1
         unique values:  2,861                    missing .:  0/2,861

                  mean:   2.2e+06
             std. dev:    603890

           percentiles:        10%       25%       50%       75%       90%
                            1.2e+06   1.7e+06   2.2e+06   2.8e+06   2.9e+06
```

```
56 .         drop _merge

57 .
58 . *Create variables used in regression: group dummy variable and control variable
59 . * create group dummy
60 .         tab wgrp, gen (wgrp)
```

Treatment group number	Freq.	Percent	Cum.
1	1,550	54.18	54.18
2	1,308	45.72	99.90
3	3	0.10	100.00
Total	2,861	100.00	

```
61 .         tab wgrp wgrp1
```

Treatment group number	wgrp== 0	1.0000 1	Total
1	**0**	**1,550**	**1,550**
2	**1,308**	**0**	**1,308**
3	**3**	**0**	**3**
Total	**1,311**	**1,550**	**2,861**

```
62 .
63 . *when account for SAP, egen a row total for SAP1 SAP SAP3 SAP4?
64 .         egen sap=rowtotal (sap1 sap2 sap3 sap4), m

65 .         save "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed3.dta", repl
   file /Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed3.dta saved

66 .
67 . *Do probit regression on groups, cluster at 1998 school level
68 .
69 .         use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/wormed3.dta", clear

70 .
71 .
72 . ****** For all eligible pupils:
73 .
74 . * Any mod-heavy infection
75 .         probit any_modheavy99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

   Iteration 0:   log pseudolikelihood = -1223.2856
   Iteration 1:   log pseudolikelihood = -1154.0237
   Iteration 2:   log pseudolikelihood = -1153.8691
   Iteration 3:   log pseudolikelihood = -1153.8691

   Probit regression                                 Number of obs     =      1,802
                                                     Wald chi2(1)      =      18.91
                                                     Prob > chi2       =     0.0000
   Log pseudolikelihood = -1153.8691                 Pseudo R2         =     0.0567

                                  (Std. Err. adjusted for 49 clusters in sch98v1)
```

any_modheavy99	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
wgrp1	**-.7469**	**.1717567**	**-4.35**	**0.000**	**-1.083537**	**-.4102631**
_cons	**.0514982**	**.1200546**	**0.43**	**0.668**	**-.1838045**	**.2868008**

```
76 .         margins, dydx (wgrp1)

Average marginal effects                        Number of obs     =      1,802
Model VCE    : Robust

Expression   : Pr(any_modheavy99), predict()
dy/dx w.r.t. : wgrp1

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.2735033   .0568622    -4.81   0.000    -.3849511   -.1620555
------------------------------------------------------------------------------

77 .
78 . * moderate-heavy schistosomiasis infection
79 .         probit modheavy_sm99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Iteration 0:   log pseudolikelihood = -732.25123
Iteration 1:   log pseudolikelihood = -717.10912
Iteration 2:   log pseudolikelihood = -717.00932
Iteration 3:   log pseudolikelihood = -717.00931

Probit regression                               Number of obs     =      1,798
                                                Wald chi2(1)      =       2.57
                                                Prob > chi2       =     0.1092
Log pseudolikelihood = -717.00931               Pseudo R2         =     0.0208

                                (Std. Err. adjusted for 49 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
modheavy_sm99|      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.4397624   .2745438    -1.60   0.109    -.9778583    .0983336
       _cons |  -.9321588   .1827704    -5.10   0.000    -1.290382   -.5739353
------------------------------------------------------------------------------

80 .         margins, dydx (wgrp1)

Average marginal effects                        Number of obs     =      1,798
Model VCE    : Robust

Expression   : Pr(modheavy_sm99), predict()
dy/dx w.r.t. : wgrp1

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
```

wgrp1	**-.0964877**	**.0642937**	**-1.50**	**0.133**	**-.2225011**	**.0295257**

```
81 .
82 . * moderate heavy geohelminth infection
83 .         probit modheavy_geo99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

Iteration 0:   log pseudolikelihood = -1149.9788
Iteration 1:   log pseudolikelihood = -1083.8531
Iteration 2:   log pseudolikelihood = -1083.5172
Iteration 3:   log pseudolikelihood = -1083.5171

Probit regression                                 Number of obs     =      1,802
                                                  Wald chi2(1)      =      24.22
                                                  Prob > chi2       =     0.0000
Log pseudolikelihood = -1083.5171                 Pseudo R2         =     0.0578

                                 (Std. Err. adjusted for 49 clusters in sch98v1)
```

modheavy_geo99	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
wgrp1	**-.7622476**	**.1548873**	**-4.92**	**0.000**	**-1.065821**	**-.4586742**
_cons	**-.1686507**	**.1089386**	**-1.55**	**0.122**	**-.3821663**	**.044865**

```
84 .         margins, dydx (wgrp1)

Average marginal effects                          Number of obs     =      1,802
Model VCE    : Robust

Expression   : Pr(modheavy_geo99), predict()
dy/dx w.r.t. : wgrp1
```

	dy/dx	Delta-method Std. Err.	z	P>|z|	[95% Conf.	Interval]
wgrp1	**-.2609556**	**.0506035**	**-5.16**	**0.000**	**-.3601367**	**-.1617745**

```
85 .
86 .
87 .
88 . ****** For subsample - Eligible Male Pupils
89 .         keep if sex==1
(845 observations deleted)
```

```
90 .
91 .         probit any_modheavy99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

   Iteration 0:   log pseudolikelihood = -815.34355
   Iteration 1:   log pseudolikelihood = -765.85781
   Iteration 2:   log pseudolikelihood = -765.76176
   Iteration 3:   log pseudolikelihood = -765.76175

   Probit regression                                 Number of obs     =      1,197
                                                     Wald chi2(1)      =      19.68
                                                     Prob > chi2       =     0.0000
   Log pseudolikelihood = -765.76175                 Pseudo R2         =     0.0608

                                  (Std. Err. adjusted for 48 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
any_modheavy99 |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.7637197   .1721486    -4.44   0.000    -1.101125   -.4263145
       _cons |    .092518   .1244438     0.74   0.457    -.1513873    .3364233
------------------------------------------------------------------------------

92 .         margins, dydx (wgrp1)

   Average marginal effects                          Number of obs     =      1,197
   Model VCE    : Robust

   Expression   : Pr(any_modheavy99), predict()
   dy/dx w.r.t. : wgrp1

------------------------------------------------------------------------------
             |            Delta-method
             |      dy/dx   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       wgrp1 |  -.2793594   .0562487    -4.97   0.000    -.3896049   -.1691139
------------------------------------------------------------------------------

93 .
94 .         probit modheavy_sm99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)

   Iteration 0:   log pseudolikelihood = -495.78208
   Iteration 1:   log pseudolikelihood = -485.33839
   Iteration 2:   log pseudolikelihood = -485.27803
   Iteration 3:   log pseudolikelihood = -485.27802

   Probit regression                                 Number of obs     =      1,194
                                                     Wald chi2(1)      =       2.23
                                                     Prob > chi2       =     0.1352
   Log pseudolikelihood = -485.27802                 Pseudo R2         =     0.0212
```

(Std. Err. adjusted for **48** clusters in sch98v1)

modheavy_sm99	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
wgrp1	**-.4368739**	**.2924652**	**-1.49**	**0.135**	**-1.010095**	**.1363474**
_cons	**-.9041388**	**.2028291**	**-4.46**	**0.000**	**-1.301677**	**-.5066011**

```
95 .         margins, dydx (wgrp1)
```

Average marginal effects — Number of obs = **1,194**
Model VCE : **Robust**

Expression : **Pr(modheavy_sm99), predict()**
dy/dx w.r.t. : **wgrp1**

	dy/dx	Delta-method Std. Err.	z	P>|z|	[95% Conf.	Interval]
wgrp1	**-.0978403**	**.0701188**	**-1.40**	**0.163**	**-.2352706**	**.0395899**

```
96 .
97 .         probit modheavy_geo99 wgrp1 if (wgrp==1 | wgrp==2), robust cluster(sch98v1)
```

Iteration 0: log pseudolikelihood = **-767.33273**
Iteration 1: log pseudolikelihood = **-719.73025**
Iteration 2: log pseudolikelihood = **-719.50726**
Iteration 3: log pseudolikelihood = **-719.50724**

Probit regression — Number of obs = **1,197**
Wald chi2(**1**) = **25.03**
Prob > chi2 = **0.0000**
Log pseudolikelihood = **-719.50724** — Pseudo R2 = **0.0623**

(Std. Err. adjusted for **48** clusters in sch98v1)

modheavy_geo99	Coef.	Robust Std. Err.	z	P>|z|	[95% Conf.	Interval]
wgrp1	**-.781057**	**.156127**	**-5.00**	**0.000**	**-1.08706**	**-.4750537**
_cons	**-.134627**	**.1141401**	**-1.18**	**0.238**	**-.3583374**	**.0890835**

```
98 .         margins, dydx (wgrp1)
```

```
Average marginal effects                        Number of obs     =      1,197
Model VCE    : Robust

Expression   : Pr(modheavy_geo99), predict()
dy/dx w.r.t. : wgrp1
```

	Delta-method dy/dx	Std. Err.	z	P>|z|	[95% Conf.	Interval]
wgrp1	**-.2672967**	**.0506695**	**-5.28**	**0.000**	**-.366607**	**-.1679863**

```
 99 .
100 .
101 .
102 .
103 .
104 .
105 .
    end of do-file

106 . do "/Users/jingxianliu/Desktop/FFFinal Proj/q5.do"

107 .
108 . use "/Users/jingxianliu/Desktop/ECON_7910_Final_Project_Data/namelist.dta", clear

109 . cap log close
```

```
      name:  <unnamed>
       log:  C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data\Question7Final.smc
  log type:  smcl
 opened on:  10 Dec 2020, 21:45:30

 1 .         *cap log close
 2 .         sort pupid visit

 3 .         keep if visit==981
(521,715 observations deleted)

 4 .         keep pupid std

 5 .         rename std std98v1

 6 .         sort pupid

 7 .         save question7, replace
file question7.dta saved

 8 .
 9 .         use "namelist"

10 .         sort pupid

11 .         merge m:1 pupid using question7
(label std_label already defined)

    Result                           # of obs.
    -----------------------------------------
    not matched                             0
    matched                           556,496  (_merge==3)
    -----------------------------------------

12 .         tab _merge

      _merge |      Freq.     Percent        Cum.
-------------+-----------------------------------
  matched (3) |    556,496      100.00      100.00
-------------+-----------------------------------
       Total |    556,496      100.00

13 .         drop _merge

14 .         sort pupid

15 .         keep pupid visit std std98v1 prs wgrp* sch98v1 elg98 sex yrbirth

16 .         save question7, replace
file question7.dta saved

17 .
18 .         ***Table 11***
19 .         /*First year whole sample*/
20 .         use question7

21 .         keep if (visit>981 & visit<993 & elg98==1)
(288,386 observations deleted)
```

```
22 .         collapse prs wgrp* (count) np = pupid, by(sch98v1)

23 .         bys wgrp: summ prs [aw=np]
```

-> wgrp = 1

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**90351**	**.8409796**	**.1265969**	**.462772**	**.970467**

-> wgrp = 2

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**92151**	**.731088**	**.1190025**	**.4411765**	**.9712408**

-> wgrp = 3

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**85608**	**.7662045**	**.1277115**	**.4990086**	**.9620563**

```
24 .         tab wgrp, gen(wgrp)
```

(mean) wgrp	Freq.	Percent	Cum.
1	**25**	**33.33**	**33.33**
2	**25**	**33.33**	**66.67**
3	**25**	**33.33**	**100.00**
Total	**75**	**100.00**	

```
25 .         regress prs wgrp1 [aw=np]
(sum of wgt is   2.6811e+05)
```

Source	SS	df	MS		
Model	**.144868949**	**1**	**.144868949**	Number of obs	= **75**
				F(1, 73)	= **9.36**
Residual	**1.12959628**	**73**	**.015473922**	Prob > F	= **0.0031**
				R-squared	= **0.1137**
				Adj R-squared	= **0.1015**
Total	**1.27446523**	**74**	**.017222503**	Root MSE	= **.12439**

prs	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**.0929796**	**.0303879**	**3.06**	**0.003**	**.0324167**	**.1535426**
_cons	**.748**	**.0176405**	**42.40**	**0.000**	**.7128425**	**.7831574**

```
26 .         regress prs wgrp1 wgrp2 [aw=np]
(sum of wgt is   2.6811e+05)
```

Source	SS	df	MS		
Model	**.160178209**	**2**	**.080089104**	Number of obs	= **75**
				F(2, 72)	= **5.17**
Residual	**1.11428702**	**72**	**.015476209**	Prob > F	= **0.0079**
				R-squared	= **0.1257**
				Adj R-squared	= **0.1014**
Total	**1.27446523**	**74**	**.017222503**	Root MSE	= **.1244**

prs	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**.0747751**	**.0354765**	**2.11**	**0.039**	**.004054**	**.1454961**
wgrp2	**-.0351165**	**.0353075**	**-0.99**	**0.323**	**-.1055007**	**.0352677**
_cons	**.7662045**	**.0254215**	**30.14**	**0.000**	**.7155277**	**.8168813**

```
27 .         clear

28 .
29 .         /*males */
30 .         use question7

31 .         keep if (visit>981 & visit<993 & elg98~=. & sex==1)
(418,409 observations deleted)

32 .         collapse prs wgrp* (count) np = pupid, by(sch98v1)

33 .         summ prs [aw=np]
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**75**	**138087**	**.7882163**	**.133859**	**.4045643**	**1**

```
34 .         bys wgrp: summ prs [aw=np]
```

-> wgrp = 1

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**50013**	**.8440614**	**.1274944**	**.4045643**	**.9727386**

-> wgrp = 2

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**46854**	**.7359284**	**.12586**	**.5**	**1**

-> wgrp = 3

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**41220**	**.7798931**	**.129284**	**.4469799**	**.9580713**

```
35 .         tab wgrp, gen(wgrp)
```

(mean) wgrp	Freq.	Percent	Cum.
1	**25**	**33.33**	**33.33**
2	**25**	**33.33**	**66.67**
3	**25**	**33.33**	**100.00**
Total	**75**	**100.00**	

```
36 .         regress prs wgrp1 [aw=np]
(sum of wgt is   1.3809e+05)
```

Source	SS	df	MS		
				Number of obs	= **75**
				F(1, 73)	= **8.13**
Model	**.132820776**	**1**	**.132820776**	Prob > F	= **0.0057**
Residual	**1.19312859**	**73**	**.016344227**	R-squared	= **0.1002**
				Adj R-squared	= **0.0878**
Total	**1.32594937**	**74**	**.017918235**	Root MSE	= **.12784**

prs	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**.0875568**	**.0307142**	**2.85**	**0.006**	**.0263435**	**.1487701**
_cons	**.7565046**	**.0184843**	**40.93**	**0.000**	**.7196653**	**.7933438**

```
37 .         regress prs wgrp1 wgrp2 [aw=np]
(sum of wgt is   1.3809e+05)
```

Source	SS	df	MS		
Model	**.155841807**	**2**	**.077920903**	Number of obs	= **75**
				F(2, 72)	= **4.79**
Residual	**1.17010756**	**72**	**.016251494**	Prob > F	= **0.0111**
				R-squared	= **0.1175**
				Adj R-squared	= **0.0930**
Total	**1.32594937**	**74**	**.017918235**	Root MSE	= **.12748**

prs	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**.0641682**	**.0363892**	**1.76**	**0.082**	**-.0083724**	**.1367088**
wgrp2	**-.0439648**	**.0369393**	**-1.19**	**0.238**	**-.117602**	**.0296724**
_cons	**.7798931**	**.0269425**	**28.95**	**0.000**	**.7261842**	**.8336021**

```
38 .         clear

39 .
40 .         /*Second year whole sample*/
41 .         use question7

42 .         keep if (visit>992 & visit<999 & elg98==1)
(377,756 observations deleted)

43 .         collapse prs wgrp* (count) np = pupid, by(sch98v1)

44 .         summ prs [aw=np]
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**75**	**178740**	**.7002415**	**.0981817**	**.3927959**	**.9153963**

```
45 .         bys wgrp: summ prs [aw=np]

-> wgrp = 1
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**60234**	**.7157943**	**.091287**	**.4701018**	**.8640974**

```
-> wgrp = 2
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**61434**	**.7182647**	**.0839325**	**.6**	**.9153963**

```
-> wgrp = 3
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**57072**	**.6644264**	**.1126229**	**.3927959**	**.8565921**

```
46 .         tab wgrp, gen(wgrp)
```

(mean) wgrp	Freq.	Percent	Cum.
1	**25**	**33.33**	**33.33**
2	**25**	**33.33**	**66.67**
3	**25**	**33.33**	**100.00**
Total	**75**	**100.00**	

```
47 .         regress prs wgrp1 wgrp2 [aw=np]
(sum of wgt is   1.7874e+05)
```

Source	SS	df	MS		
Model	**.045205428**	**2**	**.022602714**	Number of obs	= **75**
Residual	**.668127878**	**72**	**.009279554**	F(2, 72)	= **2.44**
				Prob > F	= **0.0947**
Total	**.713333306**	**74**	**.009639639**	R-squared	= **0.0634**
				Adj R-squared	= **0.0374**
				Root MSE	= **.09633**

prs	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	**.0513679**	**.0274708**	**1.87**	**0.066**	**-.0033942**	**.10613**
wgrp2	**.0538384**	**.02734**	**1.97**	**0.053**	**-.0006629**	**.1083396**
_cons	**.6644264**	**.0196849**	**33.75**	**0.000**	**.6251853**	**.7036674**

```
48 .         clear

49 .
50 .         /*males */
51 .         use question7

52 .         keep if (visit>992 & visit<999 & elg98~=. & sex==1)
(464,438 observations deleted)

53 .         collapse prs wgrp* (count) np = pupid, by(sch98v1)

54 .         summ prs [aw=np]
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**75**	**92058**	**.6842426**	**.1000323**	**.3322034**	**.92**

```
55 .         bys wgrp: summ prs [aw=np]

-> wgrp = 1
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**33342**	**.6981885**	**.0973077**	**.4368932**	**.8328381**

```
-> wgrp = 2
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**31236**	**.6952869**	**.0889511**	**.5625**	**.92**

```
-> wgrp = 3
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**25**	**27480**	**.654768**	**.1125844**	**.3322034**	**.8469861**

```
56 .         tab wgrp, gen(wgrp)
```

(mean) wgrp	Freq.	Percent	Cum.
1	**25**	**33.33**	**33.33**
2	**25**	**33.33**	**66.67**
3	**25**	**33.33**	**100.00**
Total	**75**	**100.00**	

```
57 .         regress prs wgrp1 wgrp2 [aw=np]
(sum of wgt is   9.2058e+04)
```

Source	SS	df	MS		
Model	.027836803	2	.013918402	Number of obs	= 75
Residual	.712641933	72	.009897805	F(2, 72)	= 1.41
				Prob > F	= 0.2517
Total	.740478736	74	.010006469	R-squared	= 0.0376
				Adj R-squared	= 0.0109
				Root MSE	= .09949

prs	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
wgrp1	.0434205	.0283985	1.53	0.131	-.0131909	.100032
wgrp2	.0405189	.0288278	1.41	0.164	-.0169483	.0979861
_cons	.654768	.0210262	31.14	0.000	.612853	.696683

```
58 .         clear

59 .
end of do-file

60 . do "C:\Users\Lenovo-V\AppData\Local\Temp\STD01000000.tmp"

61 . clear

62 . global datadir "C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data"

63 . cd "$datadir"
C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data

64 . log using "Log_FinalDEc10.smcl", replace
log file already open
r(604);

end of do-file

r(604);

65 . do "C:\Users\Lenovo-V\AppData\Local\Temp\STD01000000.tmp"

66 . clear

67 . global datadir "C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data"

68 . cd "$datadir"
C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data

69 . log using "Log_FinalDEc10.smcl", replace
log file already open
r(604);

end of do-file

r(604);

70 . do "C:\Users\Lenovo-V\AppData\Local\Temp\STD01000000.tmp"

71 . clear

72 . global datadir "C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data"

73 . cd "$datadir"
C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data

74 . cap log close
```

```
      name:  <unnamed>
       log:  C:\Users\Lenovo-V\Desktop\econ7910\ECON_7910_Final_Project_Data\Question8Final.smc
  log type:  smcl
 opened on:  10 Dec 2020, 21:58:38

 1 .         /*Question 8*/
 2 . * Incorporate Namelist data
 3 .         use "namelist"

 4 .
 5 . * Create further school assistance controls
 6 .         gen     Y98 = 0

 7 .         replace Y98 = 1 if (visit>980 & visit<990)
   (278,248 real changes made)

 8 .         gen Y98sap1 = sap1*Y98

 9 .         gen Y98sap2 = sap2*Y98

10 .         gen Y98sap3 = sap3*Y98

11 .         gen Y98sap4 = sap4*Y98

12 .         save "namelistq8final", replace
   file namelistq8final.dta saved

13 .
14 . * Incorporate school and zonal variables
15 .         use "schoolvar"

16 .         keep schid z9899* distlake pup_pop zoneid z_inf98

17 .         rename schid sch98v1

18 .         sort sch98v1

19 .         save "schoolvarq8final", replace
   file schoolvarq8final.dta saved

20 .         clear

21 .         use "namelistq8final"

22 .         sort sch98v1

23 .         merge sch98v1 using "schoolvarq8final"
   (note: you are using old merge syntax; see [D] merge for new syntax)
   variable sch98v1 does not uniquely identify observations in the master data

24 .         sum _merge

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
      _merge |    556,496           3           0         3          3

25 .         drop _merge

26 .
```

```
27 .
28 . * Generate year measure
29 .         gen     yr = .
   (556,496 missing values generated)

30 .         replace yr = 1 if (visit>981 & visit<993)
   (313,029 real changes made)

31 .         replace yr = 2 if (visit>992 & visit<999)
   (208,686 real changes made)

32 .
33 . * Create treatment indicators
34 .         * First year of treatment
35 .         gen     t1 = 0

36 .         replace t1 = 1 if (wgrp==1 & visit>981 & visit<993)
   (104,706 real changes made)

37 .         replace t1 = 1 if (wgrp==2 & visit>992 & visit<999)
   (71,940 real changes made)

38 .         replace t1 = . if wgrp==.
   (0 real changes made)

39 .         * Second year of treatment
40 .         gen     t2 = 0

41 .         replace t2 = 1 if (wgrp==1 & visit>992 & visit<999)
   (69,804 real changes made)

42 .         replace t2 = .  if wgrp==.
   (0 real changes made)

43 .
44 . * Other indicators
45 .         gen t1e = elg98*t1
   (19,216 missing values generated)

46 .         gen t2e = elg98*t2
   (19,216 missing values generated)

47 .
48 . * Create standard-specific measure of zonal infection rate
49 .         gen     p1 = z9899_34

50 .         replace p1 = z9899_56 if (std98v1==5 | std98v1==6)
   (100,496 real changes made)

51 .         replace p1 = z9899_78 if (std98v1==7 | std98v1==8)
   (70,752 real changes made)

52 .         drop z9899*

53 .
54 . * Create standard indicators, based on 1998 visit 1 standard
55 .         gen std_fs = std98v1 if (std98v1>-1 & std98v1<9)
   (37,552 missing values generated)

56 .         replace std_fs = -1 if (std98v1==55)
   (22,416 real changes made)
```

```
57 .         tab std_fs, gen(Istd)
```

std_fs	Freq.	Percent	Cum.
-1	22,416	4.14	4.14
0	62,720	11.59	15.73
1	86,032	15.89	31.62
2	72,208	13.34	44.96
3	64,928	11.99	56.95
4	61,808	11.42	68.37
5	53,680	9.92	78.28
6	46,816	8.65	86.93
7	44,832	8.28	95.21
8	25,920	4.79	100.00
Total	541,360	100.00	

```
58 .         summ Istd*
```

Variable	Obs	Mean	Std. Dev.	Min	Max
Istd1	541,360	.0414068	.1992295	0	1
Istd2	541,360	.1158564	.3200529	0	1
Istd3	541,360	.1589183	.3656002	0	1
Istd4	541,360	.1333826	.3399881	0	1
Istd5	541,360	.119935	.3248858	0	1
Istd6	541,360	.1141717	.31802	0	1
Istd7	541,360	.0991577	.2988739	0	1
Istd8	541,360	.0864785	.2810696	0	1
Istd9	541,360	.0828137	.2756006	0	1
Istd10	541,360	.0478794	.2135113	0	1

```
59 .         drop Istd10 std_fs

60 .         save "namelistq8final", replace
   file namelistq8final.dta saved

61 .         clear

62 .
63 . * Incorporate compliance data
64 .         use "comply"

65 .         gen any98=.
   (44,461 missing values generated)

66 .         replace any98=0 if a981==0 | a982==0| p98==0
   (28,058 real changes made)

67 .         replace any98=1 if a981==1 | a982==1| p98==1
   (7,020 real changes made)

68 .         gen any99=.
   (44,461 missing values generated)

69 .         replace any99=0 if a991==0 | a992==0| p99==0
   (26,193 real changes made)

70 .         replace any99=1 if a991==1 | a992==1| p99==1
   (9,926 real changes made)
```

```
71 .         keep pupid any98 any99

72 .         sort pupid

73 .         save "complyq8final", replace
file complyq8final.dta saved

74 .         clear

75 .         use "namelistq8final"

76 .         sort pupid

77 .         merge pupid using "complyq8final"
(note: you are using old merge syntax; see [D] merge for new syntax)
variable pupid does not uniquely identify observations in the master data

78 .         tab _merge
```

_merge	Freq.	Percent	Cum.
1	**11,152**	**1.97**	**1.97**
2	**10,377**	**1.83**	**3.80**
3	**545,344**	**96.20**	**100.00**
Total	**566,873**	**100.00**	

```
79 .         drop _merge

80 .
81 .         compress
  variable Y98 was float now byte
  variable Y98sap1 was float now byte
  variable Y98sap2 was float now byte
  variable Y98sap3 was float now byte
  variable Y98sap4 was float now byte
  variable yr was float now byte
  variable t1 was float now byte
  variable t2 was float now byte
  variable t1e was float now byte
  variable t2e was float now byte
  variable any98 was float now byte
  variable any99 was float now byte
  (20,407,428 bytes saved)

82 .                 save "namelistq8final", replace
file namelistq8final.dta saved

83 .
84 . * Collapse data by pupil and year, where YEAR1 = 982-992, YEAR2 = 983-998
85 .         sort pupid yr

86 .         drop if yr==.
(45,158 observations deleted)

87 .         collapse (mean) sch98v1 prs t1 t2 elg98 p1 sex ///
>                 Y98sap1 Y98sap2 Y98sap3 Y98sap4 sap1 sap2 sap3 sap4 ///
>                 Istd1 Istd2 Istd3 Istd4 Istd5 Istd6 Istd7 Istd8 Istd9 ///
>                 Isem1 Isem2 Isem3 ///
>                 any98 any99 wgrp (sum) obs ///
>                 if (t1~=. & elg98~=. & sch98v1~=.  &  p1~=. & Istd2~=.), by(pupid yr)
```

```
88 .         keep e* t* p* sap* Y98sap* sch98v1 prs* Istd* Isem* sch* obs yr  sex

89 .
90 . * Create an indicator for whether the school received treatment
91 .         gen     t_any = 0

92 .         replace t_any=1 if (t1==1 | t2==1)
(33,554 real changes made)

93 .         replace t_any=. if t1==. | t2==.
(0 real changes made)

94 .         save "namelistq8final", replace
file namelistq8final.dta saved

95 .
96 . **** TABLE 12 ***
97 .         sum prs [aw=obs] if  (t1~=. & elg98~=. & sch98v1~=. & p1~=. & Istd2~=.)
```

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
prs	**56,496**	**207532**	**.7467041**	**.3152257**	**0**	**1**

```
98 .         /*any treatment*/
99 .         regress prs t_any elg98 p1 Y98sap* sap* Istd* Isem* [aw=obs] if (t1~=. & elg98~=. & s
(sum of wgt is   2.0753e+05)
```

Linear regression

Number of obs	=	**56,496**
F(23, 74)	=	**471.16**
Prob > F	=	**0.0000**
R-squared	=	**0.2098**
Root MSE	=	**.28027**

(Std. Err. adjusted for **75** clusters in sch98v1)

prs	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
t_any	**.0484582**	**.0165884**	**2.92**	**0.005**	**.0154051**	**.0815113**
elg98	**.0628643**	**.0070364**	**8.93**	**0.000**	**.048844**	**.0768846**
p1	**-.1004239**	**.0563685**	**-1.78**	**0.079**	**-.2127406**	**.0118928**
Y98sap1	**-.2554636**	**.0326294**	**-7.83**	**0.000**	**-.320479**	**-.1904482**
Y98sap2	**-.2879817**	**.0316405**	**-9.10**	**0.000**	**-.3510269**	**-.2249366**
Y98sap3	**-.2455194**	**.0342696**	**-7.16**	**0.000**	**-.313803**	**-.1772359**
Y98sap4	**-.1663233**	**.0502605**	**-3.31**	**0.001**	**-.2664696**	**-.066177**
sap1	**.0291811**	**.0206753**	**1.41**	**0.162**	**-.0120153**	**.0703774**
sap2	**.0581781**	**.0223267**	**2.61**	**0.011**	**.0136912**	**.102665**
sap3	**.0081942**	**.0317336**	**0.26**	**0.797**	**-.0550363**	**.0714247**
sap4	**-.017606**	**.0417649**	**-0.42**	**0.675**	**-.1008243**	**.0656124**
Istd1	**-.754999**	**.0252263**	**-29.93**	**0.000**	**-.8052635**	**-.7047345**
Istd2	**-.1963159**	**.0293551**	**-6.69**	**0.000**	**-.2548073**	**-.1378245**
Istd3	**-.2134004**	**.0221588**	**-9.63**	**0.000**	**-.2575527**	**-.1692481**
Istd4	**-.2106308**	**.0207875**	**-10.13**	**0.000**	**-.2520508**	**-.1692107**
Istd5	**-.1867224**	**.0219563**	**-8.50**	**0.000**	**-.2304712**	**-.1429735**
Istd6	**-.1125459**	**.0194218**	**-5.79**	**0.000**	**-.1512446**	**-.0738471**
Istd7	**-.1216379**	**.0155559**	**-7.82**	**0.000**	**-.1526337**	**-.0906421**
Istd8	**-.1121271**	**.0158211**	**-7.09**	**0.000**	**-.1436515**	**-.0806028**
Istd9	**-.1078613**	**.0156386**	**-6.90**	**0.000**	**-.139022**	**-.0767006**
Isem1	**.3554951**	**.0446737**	**7.96**	**0.000**	**.2664807**	**.4445094**
Isem2	**.4803362**	**.086206**	**5.57**	**0.000**	**.308567**	**.6521054**
Isem3	**.0625465**	**.042552**	**1.47**	**0.146**	**-.0222402**	**.1473333**
_cons	**.7981677**	**.0284478**	**28.06**	**0.000**	**.7414843**	**.8548512**

```
100 .         /*first and second year treatment*/
101 .         regress prs t1 t2 elg98 p1 Y98sap* sap* Istd* Isem* [aw=obs] if (t1~=. & elg98~=. & s
(sum of wgt is   2.0753e+05)

Linear regression                               Number of obs     =     56,496
                                                F(24, 74)         =     510.80
                                                Prob > F          =     0.0000
                                                R-squared         =     0.2107
                                                Root MSE          =     .28012

                                   (Std. Err. adjusted for 75 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
         prs |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
          t1 |   .0567895   .0165896     3.42   0.001     .0237341    .089845
          t2 |   .0235563   .0259687     0.91   0.367    -.0281874      .0753
       elg98 |   .0628782   .0070448     8.93   0.000     .0488412    .0769151
          p1 |  -.0993878   .0565081    -1.76   0.083    -.2119826    .013207
      Y98sap1 |  -.2496295   .0336292    -7.42   0.000    -.3166371   -.182622
      Y98sap2 |  -.2915289   .0318936    -9.14   0.000    -.3550782   -.2279796
      Y98sap3 |  -.2419663   .0393157    -6.15   0.000    -.3203045   -.1636281
      Y98sap4 |  -.1541188   .0539162    -2.86   0.006    -.2615492   -.0466883
         sap1 |    .026082    .022209     1.17   0.244    -.0181705    .0703345
         sap2 |   .0615506   .0227744     2.70   0.009     .0161716    .1069297
         sap3 |   .0071397   .0320507     0.22   0.824    -.0567227    .0710021
         sap4 |  -.0244538   .0420625    -0.58   0.563    -.1082651    .0593576
        Istd1 |  -.7540412   .0251765   -29.95   0.000    -.8042066   -.7038759
        Istd2 |   -.195871   .0292999    -6.69   0.000    -.2542523   -.1374897
        Istd3 |  -.2130962   .0221884    -9.60   0.000    -.2573076   -.1688848
        Istd4 |  -.2104063   .0207967   -10.12   0.000    -.2518447    -.168968
        Istd5 |  -.1863257   .0219907    -8.47   0.000    -.2301431   -.1425082
        Istd6 |  -.1119515   .0193942    -5.77   0.000    -.1505952   -.0733077
        Istd7 |  -.1211156   .0155445    -7.79   0.000    -.1520887   -.0901424
        Istd8 |  -.1114977   .0158201    -7.05   0.000     -.14302   -.0799755
        Istd9 |  -.1070556   .0156132    -6.86   0.000    -.1381655   -.0759456
        Isem1 |    .355614   .0445009     7.99   0.000     .2669441    .4442839
        Isem2 |   .4709881   .0866022     5.44   0.000     .2984294    .6435469
        Isem3 |   .0791053   .0446087     1.77   0.080    -.0097795    .1679901
        _cons |   .7947588   .0286558    27.73   0.000     .7376609    .8518566
------------------------------------------------------------------------------

102 .
103 .
104 .         /*males*/
105 .         keep if sex==1
(36,198 observations deleted)

106 .         /*any treatment*/
107 .         regress prs t_any p1 Y98sap* sap* Istd* Isem* [aw=obs] if (t1~=. & elg98~=. & sch98v1
(sum of wgt is   1.0093e+05)

Linear regression                               Number of obs     =     27,108
                                                F(22, 74)         =     318.62
                                                Prob > F          =     0.0000
                                                R-squared         =     0.2447
                                                Root MSE          =     .27514

                                   (Std. Err. adjusted for 75 clusters in sch98v1)
------------------------------------------------------------------------------
             |               Robust
         prs |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       t_any |   .0460613   .0180773     2.55   0.013     .0100414    .0820812
          p1 |  -.1277345   .0576485    -2.22   0.030    -.2426016   -.0128674
      Y98sap1 |  -.2531131   .0361292    -7.01   0.000     -.325102   -.1811242
      Y98sap2 |  -.2697668   .0285293    -9.46   0.000    -.3266126   -.2129209
      Y98sap3 |  -.2451294   .0343893    -7.13   0.000    -.3136515   -.1766073
      Y98sap4 |   -.173999   .0581449    -2.99   0.004    -.2898552   -.0581428
         sap1 |   .0359363    .027853     1.29   0.201    -.0195619    .0914346
         sap2 |   .0381893   .0251275     1.52   0.133    -.0118784    .0882569
         sap3 |   .0087376   .0244931     0.36   0.722     -.040066    .0575413
```

sap4	.0081739	.0425147	0.19	0.848	-.0765385	.0928863
Istd1	-.7664547	.0297	-25.81	0.000	-.8256331	-.7072762
Istd2	-.1593734	.0278775	-5.72	0.000	-.2149205	-.1038263
Istd3	-.1880765	.0241755	-7.78	0.000	-.2362472	-.1399058
Istd4	-.1976711	.0249877	-7.91	0.000	-.2474602	-.1478821
Istd5	-.1738678	.0235346	-7.39	0.000	-.2207616	-.1269741
Istd6	-.1028544	.0205121	-5.01	0.000	-.1437256	-.0619832
Istd7	-.1227384	.0185621	-6.61	0.000	-.1597241	-.0857526
Istd8	-.1126291	.0190031	-5.93	0.000	-.1504935	-.0747647
Istd9	-.1010747	.0170365	-5.93	0.000	-.1350207	-.0671287
Isem1	.3157866	.0468312	6.74	0.000	.2224734	.4090999
Isem2	.5528337	.1121391	4.93	0.000	.3293916	.7762757
Isem3	.0417997	.0425893	0.98	0.330	-.0430614	.1266608
_cons	.8616024	.0326246	26.41	0.000	.7965964	.9266084

```
108 .         /*first and second year treatment*/
109 .         regress prs t1 t2 p1 Y98sap* sap* Istd* Isem* [aw=obs] if (t1~=. & elg98~=. & sch98v1
(sum of wgt is   1.0093e+05)
```

Linear regression

Number of obs	=	27,108
F(23, 74)	=	319.58
Prob > F	=	0.0000
R-squared	=	0.2453
Root MSE	=	.27502

(Std. Err. adjusted for 75 clusters in sch98v1)

prs	Coef.	Robust Std. Err.	t	P>|t|	[95% Conf.	Interval]
t1	.0530803	.0177083	3.00	0.004	.0177958	.0883649
t2	.024748	.0285391	0.87	0.389	-.0321173	.0816133
p1	-.1258817	.0580104	-2.17	0.033	-.2414699	-.0102935
Y98sap1	-.2488408	.0364971	-6.82	0.000	-.3215629	-.1761188
Y98sap2	-.2749479	.0294884	-9.32	0.000	-.3337048	-.216191
Y98sap3	-.2427242	.0392999	-6.18	0.000	-.321031	-.1644174
Y98sap4	-.1645534	.0613898	-2.68	0.009	-.2868752	-.0422315
sap1	.0335556	.029424	1.14	0.258	-.025073	.0921842
sap2	.0422631	.0260606	1.62	0.109	-.0096638	.09419
sap3	.0080666	.0247712	0.33	0.746	-.041291	.0574242
sap4	.0027173	.0426172	0.06	0.949	-.0821993	.0876339
Istd1	-.7657011	.0296039	-25.86	0.000	-.824688	-.7067141
Istd2	-.1584153	.0276398	-5.73	0.000	-.2134888	-.1033418
Istd3	-.188033	.0242327	-7.76	0.000	-.2363177	-.1397482
Istd4	-.1977919	.0250079	-7.91	0.000	-.2476212	-.1479626
Istd5	-.1737165	.0235491	-7.38	0.000	-.2206391	-.1267938
Istd6	-.1026644	.020581	-4.99	0.000	-.1436729	-.0616559
Istd7	-.1225011	.0185412	-6.61	0.000	-.1594453	-.0855569
Istd8	-.1124185	.0190333	-5.91	0.000	-.1503433	-.0744938
Istd9	-.1004758	.016926	-5.94	0.000	-.1342016	-.06675
Isem1	.3174251	.0462983	6.86	0.000	.2251736	.4096765
Isem2	.5466995	.1114308	4.91	0.000	.3246688	.7687302
Isem3	.0579646	.045487	1.27	0.207	-.0326702	.1485995
_cons	.8576373	.0327224	26.21	0.000	.7924364	.9228381

```
110 .
111 .
112 . clear

113 .
end of do-file
```