

```

name: <unnamed>
log: C:\Users\zxuyuan\Downloads\02. Datasets\Replication_v2.log
log type: text
opened on: 27 Mar 2024, 09:33:48

. // before using the stata do file you need to install
. // esttab: ssc install estout
. // outreg2: ssc install outreg2
.
. use "ABCHousehold.dta", clear

.
. /*****TABLE 0 *****/
. // Export the label and variable name
.
. label variable age "age"

. // this code is to export the name and label for further use. (make table in p
> ython)
.
. preserve

. describe, replace clear

. list

1. +-----+-----+-----+-----+-----+-----+
   | position |          name | type | isnum~c | format | vallab |
   |          1 |          codemenage | str8 |          0 | %9s |          |
   +-----+-----+-----+-----+-----+-----+
   |                                          varlab |
   |                                          Household Code |
   +-----+-----+-----+-----+-----+-----+

2. +-----+-----+-----+-----+-----+-----+
   | position |          name | type | isnum~c | format | vallab |
   |          2 |          codevillage | str4 |          0 | %9s |          |
   +-----+-----+-----+-----+-----+-----+
   |                                          varlab |
   |                                          Four-Digit Village Code |
   +-----+-----+-----+-----+-----+-----+

3. +-----+-----+-----+-----+-----+-----+
   | position |          name | type | isnum~c | format | vallab |
   |          3 |          village | str28 |          0 | %28s |          |
   +-----+-----+-----+-----+-----+-----+
   |                                          varlab |
   |                                          Village Name |
   +-----+-----+-----+-----+-----+-----+

4. +-----+-----+-----+-----+-----+-----+
   | position |          name | type | isnum~c | format | vallab |
   |          4 |          year | int |          1 | %9.0g |          |
   +-----+-----+-----+-----+-----+-----+
   |                                          varlab |
   |                                          2009, 2010 or 2011 |
   +-----+-----+-----+-----+-----+-----+

5. +-----+-----+-----+-----+-----+-----+
   | position |          name | type | isnum~c | format | vallab |
   |          5 |          time | byte |          1 | %9.0g |          |

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								varlab
<hr/>								
6.	position 6	name dept	type byte	isnume~c 1	format %12.0g	vallab		
							varlab	
		id2 Dept, 31=Doutchi, 32=Loga, 71=Tanout, 72=Mirriah						
<hr/>								
7.	position 7	name region	type byte	isnume~c 1	format %9.0g	vallab region		
							varlab	
		Region 3=Doutchi, 7=Zinder						
<hr/>								
8.	position 8	name avcode	type byte	isnume~c 1	format %9.0g	vallab		
							varlab	
		Subdistrict;Extensiton worker id						
<hr/>								
9.	position 9	name abc	type byte	isnume~c 1	format %9.0g	vallab		
							varlab	
		ABC Village in 2009 or 2010						
<hr/>								
10.	position 10	name cohort	type int	isnume~c 1	format %9.0g	vallab		
							varlab	
		Cohort						
<hr/>								
11.	position 11	name post	type byte	isnume~c 1	format %9.0g	vallab		
							varlab	
		Post Literacy Programme						
<hr/>								
12.	position 12	name hhhead	type byte	isnume~c 1	format %12.0g	vallab		
							varlab	
		id11 Are you the household head?						
<hr/>								
13.	position	name	type	isnume~c	format	vallab		

	13	age	byte	1	%8.0g	
						varlab age
14.	position 14	name eth_hausa	type byte	isnume~c 1	format %9.0g	vallab varlab Respondent is Hausa
15.	position 15	name hhmem_no	type byte	isnume~c 1	format %9.0g	vallab varlab Number of household members
16.	position 16	name edchild_percent	type float	isnume~c 1	format %9.0g	vallab varlab Percentage of children under 15 who have some education
17.	position 17	name assets	type byte	isnume~c 1	format %9.0g	vallab varlab Number of asset categories owned by household
18.	position 18	name cellphone	type byte	isnume~c 1	format %12.0g	vallab varlab s22q1_15a Household owns a cell phone (excluding group phone)
19.	position 19	name cellphoneowner	type byte	isnume~c 1	format %12.0g	vallab varlab s23q1 Respondent is owner of household cell phone
20.	position 20	name accesscellphone	type byte	isnume~c 1	format %9.0g	vallab varlab Access to household or village-level cell phone

21.	position	21	name	type	isnume~c	format	vallab
			usecellphone	byte	1	%12.0g	
							varlab
							Respondent has used cell phone since last harvest
22.	position	22	name	type	isnume~c	format	vallab
			makecall	byte	1	%12.0g	
							varlab
							s23q9_1 Respondent has made call
23.	position	23	name	type	isnume~c	format	vallab
			receivecall	byte	1	%12.0g	
							varlab
							s23q9_2 Respondent has received call
24.	position	24	name	type	isnume~c	format	vallab
			writesms	byte	1	%12.0g	
							varlab
							s23q9_3 Respondent has written SMS
25.	position	25	name	type	isnume~c	format	vallab
			receivesms	byte	1	%12.0g	
							varlab
							s23q9_4 Respondent has received SMS
26.	position	26	name	type	isnume~c	format	vallab
			bip	byte	1	%12.0g	
							varlab
							s23q9_5 Respondent has sent bip
27.	position	27	name	type	isnume~c	format	vallab
			receivebip	byte	1	%12.0g	
							varlab
							s23q9_6 Respondent has received bip
28.	position	28	name	type	isnume~c	format	vallab
			madetransferSMS	byte	1	%12.0g	
							varlab
							s23q9_9 Respondent made transfer SMS 2010

29.	position	name	type	isnume~c	format	vallab
	29	receivedtransferSMS	byte	1	%12.0g	
						varlab
						s23q9_10 Respondent received transfer SMS 2010
30.	position	name	type	isnume~c	format	vallab
	30	celltalkmigrant	byte	1	%12.0g	
						varlab
						s23q10_1 Respondent used cell phone to talk to migrant
31.	position	name	type	isnume~c	format	vallab
	31	celltalkrelativeniger	byte	1	%12.0g	
						varlab
						s23q10_2 Respondent used cell phone to talk to relative in Niger
32.	position	name	type	isnume~c	format	vallab
	32	celltalktradeniger	byte	1	%12.0g	
						varlab
						s23q10_3 Respondent used cell phone to talk about trade within Niger
33.	position	name	type	isnume~c	format	vallab
	33	whycell_ceremony	byte	1	%12.0g	
						varlab
						s23q11_2 Use cell to communicate ceremony
34.	position	name	type	isnume~c	format	vallab
	34	whycell_priceinfo	byte	1	%12.0g	
						varlab
						s23q11_4 Use cell to get price info
35.	position	name	type	isnume~c	format	vallab
	35	whycell_help	byte	1	%12.0g	
						varlab
						s23q11_5 Use cell to ask for help
36.	position	name	type	isnume~c	format	vallab
	36	drought	byte	1	%12.0g	
						varlab
						s8q3_1 Household experienced drought in past year

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37. +-----+
   | position |          name | type | isnum~c | format | vallab |
   |         37 | communicate_migrant | byte |         1 | %9.0g |         |
   +-----+
   |                                     varlab |
   | Household communicated with most recent migrant since the last harvest |
   +-----+

.      export excel using variable__label_correspondence.xlsx, replace first(var)
file variable__label_correspondence.xlsx saved

. restore

.
. use "ABCteacher.dta", clear

.
. preserve

.      describe, replace clear

.      list

1. +-----+
   | position |          name | type | isnum~c | format | vallab |
   |         1 |      codevillage | float |         1 | %9.0g |         |
   +-----+
   |                                     varlab |
   |                                     Village Code |
   +-----+

2. +-----+
   | position |          name | type | isnum~c | format | vallab |
   |         2 |          class | float |         1 | %9.0g |         |
   +-----+
   |                                     varlab |
   |                                     Class code |
   +-----+

3. +-----+
   | position |          name | type | isnum~c | format | vallab |
   |         3 |          year | int |         1 | %8.0g |         |
   +-----+
   |                                     varlab |
   |                                     Year |
   +-----+

4. +-----+
   | position |          name | type | isnum~c | format | vallab |
   |         4 |      teacherage | byte |         1 | %8.0g |         |
   +-----+
   |                                     varlab |
   |                                     Age of Teacher |
   +-----+

5. +-----+
   | position |          name | type | isnum~c | format | vallab |
   |         5 |      levelno | byte |         1 | %8.0g |         |
   +-----+
   |                                     varlab |
   | Level of Instruction of Teacher |
   +-----+

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6. | position |          name | type | isnum~c | format | vallab |
   |         6 | femaleteacher | byte |         1 | %8.0g |         |
   |-----|-----|-----|-----|-----|-----|
   |                               varlab
   |                               Female Teacher
   |-----|-----|-----|-----|-----|-----|

7. | position |          name | type | isnum~c | format | vallab |
   |         7 | femalecenter | byte |         1 | %8.0g |         |
   |-----|-----|-----|-----|-----|-----|
   |                               varlab
   |                               Female Class
   |-----|-----|-----|-----|-----|-----|

8. | position |          name | type | isnum~c | format | vallab |
   |         8 |          local | byte |         1 | %8.0g |         |
   |-----|-----|-----|-----|-----|-----|
   |                               varlab
   |                               Teacher from Same Village
   |-----|-----|-----|-----|-----|-----|

9. | position |          name | type | isnum~c | format | vallab |
   |         9 |          region | float |         1 | %9.0g |         |
   |-----|-----|-----|-----|-----|-----|
   |                               varlab
   |                               Dosso Region = 1 Zinder =0
   |-----|-----|-----|-----|-----|-----|

10. | position |          name | type | isnum~c | format | vallab |
   |        10 |          cohort | float |         1 | %9.0g |         |
   |-----|-----|-----|-----|-----|-----|
   |                               varlab
   |                               Cohort
   |-----|-----|-----|-----|-----|-----|

11. | position |          name | type | isnum~c | format | vallab |
   |        11 |          abc | byte |         1 | %9.0g |         |
   |-----|-----|-----|-----|-----|-----|
   |                               varlab
   |                               ABC village
   |-----|-----|-----|-----|-----|-----|

12. | position |          name | type | isnum~c | format | vallab |
   |        12 |          avcode | byte |         1 | %9.0g |         |
   |-----|-----|-----|-----|-----|-----|
   |                               varlab
   |                               Subdistrict;Extensiton worker id
   |-----|-----|-----|-----|-----|-----|

```

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. export excel using variable__label_correspondence_teacher.xlsx, replace fi
> rst(var)
file variable__label_correspondence_teacher.xlsx saved

. restore

```

1.	position 1	name codevillage	type double	isnum-c 1	format %9.0g	vallab Village Code
2.	position 2	name class	type float	isnum-c 1	format %9.0g	vallab Class code
3.	position 3	name round	type byte	isnum-c 1	format %9.0g	vallab round of literacy data-collection
4.	position 4	name timesinceliteracy	type byte	isnum-c 1	format %9.0g	vallab TIMESINCE timesince since literacy project started
5.	position 5	name write	type double	isnum-c 1	format %9.0g	vallab Score on writing Test
6.	position 6	name math	type double	isnum-c 1	format %9.0g	vallab Score on Math Test
7.	position 7	name absent	type byte	isnum-c 1	format %9.0g	vallab

	Absent on date of test					
8.	position	name	type	isnume~c	format	vallab
	8	region	byte	1	%8.0g	
	varlab					
	Region					
9.	position	name	type	isnume~c	format	vallab
	9	days1	byte	1	%9.0g	
	varlab					
	Number of Class days in month 1					
10.	position	name	type	isnume~c	format	vallab
	10	days2	byte	1	%9.0g	
	varlab					
	Number of Class days in month 2					
11.	position	name	type	isnume~c	format	vallab
	11	days3	byte	1	%9.0g	
	varlab					
	Number of Class days in month 3					
12.	position	name	type	isnume~c	format	vallab
	12	attend1	byte	1	%9.0g	
	varlab					
	# Class days attenden in month1					
13.	position	name	type	isnume~c	format	vallab
	13	attend2	byte	1	%9.0g	
	varlab					
	# Class days attenden in month2					
14.	position	name	type	isnume~c	format	vallab
	14	attend3	byte	1	%9.0g	
	varlab					
	# Class days attenden in month3					
15.	position	name	type	isnume~c	format	vallab
	15	days4	byte	1	%9.0g	

					varlab	
					Number of Class days in month 4	
16.	position	name	type	isnume~c	format	vallab
	16	attend4	byte	1	%9.0g	
					varlab	
					# Class days attenden in month4	
17.	position	name	type	isnume~c	format	vallab
	17	cohort	float	1	%8.0g	
					varlab	
					literacy cohort 09 or 10	
18.	position	name	type	isnume~c	format	vallab
	18	female	byte	1	%9.0g	
					varlab	
					Female	
19.	position	name	type	isnume~c	format	vallab
	19	district	byte	1	%9.0g	
					varlab	
					District	
20.	position	name	type	isnume~c	format	vallab
	20	baseline	byte	1	%8.0g	
					varlab	
					Village is in Baseline Sample	
21.	position	name	type	isnume~c	format	vallab
	21	abc	byte	1	%9.0g	
					varlab	
					ABC or non-ABC village	
22.	position	name	type	isnume~c	format	vallab
	22	avcode	byte	1	%9.0g	
					varlab	
					Subdistrict;Extensiton worker id	
23.	position	name	type	isnume~c	format	vallab
	23	abc2009	float	1	%9.0g	

	varlab ABC village in 2009 Cohort						
24.	position 24	name abc2010	type float	isnum=c 1	format %9.0g	vallab	
	varlab ABC village in 2010 Cohort						
25.	position 25	name lit2009	type float	isnum=c 1	format %9.0g	vallab	
	varlab 2009 Cohort						
26.	position 26	name lit2010	type float	isnum=c 1	format %9.0g	vallab	
	varlab 2010 Cohort						
27.	position 27	name age2009	type byte	isnum=c 1	format %9.0g	vallab	
	varlab Age in 2009						
28.	position 28	name year	type float	isnum=c 1	format %9.0g	vallab	
	varlab year of data-collection						
29.	position 29	name dosso	type byte	isnum=c 1	format %9.0g	vallab	
	varlab Dosso Region = 1 Zinder =0						
30.	position 30	name hausa	type float	isnum=c 1	format %9.0g	vallab	
	varlab Hausa village						
31.	position	name	type	isnum=c	format	vallab	

	31	zarma	float	1	%9.0g	
						varlab Zarma village
32.	position 32	name kanuri	type float	isnume~c 1	format %9.0g	vallab
						varlab Kanuri
33.	position 33	name village	type str29	isnume~c 0	format %29s	vallab
						varlab village name
34.	position 34	name villagecode	type byte	isnume~c 1	format %9.0g	vallab
						varlab 2-digit villagecode
35.	position 35	name langue	type str5	isnume~c 0	format %5s	vallab
						varlab language
36.	position 36	name age	type float	isnume~c 1	format %9.0g	vallab
						varlab Age - missing values imputed
37.	position 37	name ageabc	type float	isnume~c 1	format %9.0g	vallab
						varlab
38.	position 38	name young	type float	isnume~c 1	format %9.0g	vallab
						varlab Age 19 and below

39.	position 39	name totalattend	type float	isnume~c 1	format %9.0g	vallab
varlab Number Classes Attended						
40.	position 40	name totaldays	type float	isnume~c 1	format %9.0g	vallab
varlab Number Classes Held						
41.	position 41	name percentattend	type float	isnume~c 1	format %9.0g	vallab
varlab Percentage of Classes Attended						
42.	position 42	name totalattend12	type float	isnume~c 1	format %9.0g	vallab
varlab # Classes Attended; Month 1&2						
43.	position 43	name totalattend34	type float	isnume~c 1	format %9.0g	vallab
varlab # Classes Attended; Month 3&4						
44.	position 44	name totaldays12	type float	isnume~c 1	format %9.0g	vallab
varlab # Classes Held; Month 1&2						
45.	position 45	name totaldays34	type float	isnume~c 1	format %9.0g	vallab
varlab # Classes Held; Month 3&4						
46.	position 46	name percentattend12	type float	isnume~c 1	format %9.0g	vallab
varlab % Classes Attended; Month 1&2						

47.	position 47	name percentatt	type float	isnume~c 1	format %9.0g	vallab
varlab % Classes Attended; Month 3&4						
48.	position 48	name post	type float	isnume~c 1	format %9.0g	vallab
varlab Post						
49.	position 49	name abcpst	type float	isnume~c 1	format %9.0g	vallab
varlab ABC treatment (i.e. ABC * Treatment)						
50.	position 50	name post5m	type float	isnume~c 1	format %9.0g	vallab
varlab Post (5 months)						
51.	position 51	name abcpst5m	type float	isnume~c 1	format %9.0g	vallab
varlab ABC*Post (5 months)						
52.	position 52	name post11m	type float	isnume~c 1	format %9.0g	vallab
varlab Post (11 months)						
53.	position 53	name abcpst11m	type float	isnume~c 1	format %9.0g	vallab
varlab ABC*Post (11 months)						
54.	position 54	name post17m	type float	isnume~c 1	format %9.0g	vallab
varlab Post (17 months)						

55.	position	name	type	isnume~c	format	vallab
	55	abcpst17m	float	1	%9.0g	
					varlab	
					ABC*Post (17 months)	
56.	position	name	type	isnume~c	format	vallab
	56	post6monthafter	float	1	%9.0g	
					varlab	
57.	position	name	type	isnume~c	format	vallab
	57	abcpst6monthafter	float	1	%9.0g	
					varlab	
58.	position	name	type	isnume~c	format	vallab
	58	femaleabc	float	1	%9.0g	
					varlab	
					Female * ABC	
59.	position	name	type	isnume~c	format	vallab
	59	femalepost	float	1	%9.0g	
					varlab	
					Female * Post	
60.	position	name	type	isnume~c	format	vallab
	60	abcfemalepost	float	1	%9.0g	
					varlab	
					Female * ABC * Post	
61.	position	name	type	isnume~c	format	vallab
	61	regionabc	float	1	%9.0g	
					varlab	
					Region = Dosso * ABC	
62.	position	name	type	isnume~c	format	vallab
	62	regionpost	float	1	%9.0g	
					varlab	
					Region = Dosso* Post	

+-----+						
63.	position	name	type	isnume~c	format	vallab
	63	abcregionpost	float	1	%9.0g	
+-----+						
	varlab					
	Region = Dosso * ABC * Post					
+-----+						
64.	position	name	type	isnume~c	format	vallab
	64	youngabc	float	1	%9.0g	
+-----+						
	varlab					
	Young * ABC					
+-----+						
65.	position	name	type	isnume~c	format	vallab
	65	youngpost	float	1	%9.0g	
+-----+						
	varlab					
	Young * Post					
+-----+						
66.	position	name	type	isnume~c	format	vallab
	66	abcyoungpost	float	1	%9.0g	
+-----+						
	varlab					
	Young * ABC * Post					
+-----+						
67.	position	name	type	isnume~c	format	vallab
	67	cohort2009	float	1	%9.0g	
+-----+						
	varlab					
+-----+						
68.	position	name	type	isnume~c	format	vallab
	68	mathzscore	float	1	%9.0g	
+-----+						
	varlab					
	Numeracy test Z-score					
+-----+						
69.	position	name	type	isnume~c	format	vallab
	69	writezscore	float	1	%9.0g	
+-----+						
	varlab					
	Literacy test Z-score					
+-----+						
70.	position	name	type	isnume~c	format	vallab
	70	math1	float	1	%9.0g	
+-----+						
	varlab					

	Baseline numeracy test score					
71.	position	name	type	isnume~c	format	vallab
	71	mathz1	float	1	%9.0g	
	varlab					
	Baseline numeracy test Z-score					
72.	position	name	type	isnume~c	format	vallab
	72	math2	float	1	%9.0g	
	varlab					
	5-month numeracy test score					
73.	position	name	type	isnume~c	format	vallab
	73	math3	float	1	%9.0g	
	varlab					
	12-month numeracy test score					
74.	position	name	type	isnume~c	format	vallab
	74	math4	float	1	%9.0g	
	varlab					
	17 month numeracy test score					
75.	position	name	type	isnume~c	format	vallab
	75	math5	float	1	%9.0g	
	varlab					
	24 month numeracy test score					
76.	position	name	type	isnume~c	format	vallab
	76	write1	float	1	%9.0g	
	varlab					
	Baseline literacy test score					
77.	position	name	type	isnume~c	format	vallab
	77	writeln1	float	1	%9.0g	
	varlab					
	Baseline literacy test Z-score					
78.	position	name	type	isnume~c	format	vallab
	78	writeln2	float	1	%9.0g	

						varlab	
						5-month literacy test score	
79.	position	name	type	isnume~c	format	vallab	
	79	write3	float	1	%9.0g		
						varlab	
						12-month literacy test score	
80.	position	name	type	isnume~c	format	vallab	
	80	write4	float	1	%9.0g		
						varlab	
						17 month literacy test score	
81.	position	name	type	isnume~c	format	vallab	
	81	write5	float	1	%9.0g		
						varlab	
						24 month literacy test score	

```
. export excel using variable__label_correspondence_test_score.xlsx, replace
> first(var)
file variable__label_correspondence_test_score.xlsx saved
```

```
. restore
```

```
. /*****TABLE 1 *****/
. // We test whether the treatment group is assigned via non-randomization manipulation
> ulation
```

```
. use "ABCtestscore.dta", clear
```

```
. reg writez1 abc i.avc, cluster(codev)
```

```
Linear regression
```

Number of obs	=	5,982
F(23, 112)	=	4.22
Prob > F	=	0.0000
R-squared	=	0.0224
Root MSE	=	.9347

(Std. err. adjusted for 113 clusters in codevillage)

writez1	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0230921	.0399616	-0.58	0.565	-.1022709	.0560867
avcode						
2	-.2052144	.1216767	-1.69	0.094	-.4463011	.0358723
3	-.3711898	.0773765	-4.80	0.000	-.5245013	-.2178782
4	-.3032091	.0811349	-3.74	0.000	-.4639674	-.1424508
5	-.2361261	.0929439	-2.54	0.012	-.4202826	-.0519696
6	-.3646186	.0790297	-4.61	0.000	-.5212059	-.2080313

8	-.3464581	.083205	-4.16	0.000	-.5113182	-.181598
9	-.2341432	.111874	-2.09	0.039	-.4558072	-.0124791
10	-.0489395	.2207886	-0.22	0.825	-.4864039	.3885248
11	-.3634914	.0869115	-4.18	0.000	-.5356955	-.1912874
12	-.27556	.0900153	-3.06	0.003	-.4539138	-.0972062
13	-.3252861	.0807738	-4.03	0.000	-.485329	-.1652432
14	-.2848496	.0958569	-2.97	0.004	-.4747777	-.0949214
15	-.1754577	.1762696	-1.00	0.322	-.5247133	.1737979
16	.1108725	.1750943	0.63	0.528	-.2360545	.4577995
17	-.3840173	.0773277	-4.97	0.000	-.5372323	-.2308023
18	-.0624857	.1315787	-0.47	0.636	-.3231921	.1982207
19	-.3935956	.0776814	-5.07	0.000	-.5475114	-.2396798
20	-.3272519	.08237	-3.97	0.000	-.4904574	-.1640463
21	-.3633844	.0784376	-4.63	0.000	-.5187985	-.2079702
22	-.1000956	.1718358	-0.58	0.561	-.4405661	.240375
23	-.3799316	.0744152	-5.11	0.000	-.5273757	-.2324874
24	-.3851199	.0748474	-5.15	0.000	-.5334204	-.2368195
_cons	.2450349	.0808129	3.03	0.003	.0849145	.4051553

. est store base_line_1

. reg writez1 abc female age dosso i.avc, cluster(codev)
note: 21.avcode omitted because of collinearity.

Linear regression	Number of obs	=	5,675
	F(25, 112)	=	4.60
	Prob > F	=	0.0000
	R-squared	=	0.0278
	Root MSE	=	.94619

(Std. err. adjusted for 113 clusters in codevillage)

writez1	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0291124	.0420198	-0.69	0.490	-.1123693	.0541444
female	-.1334548	.0348153	-3.83	0.000	-.202437	-.0644727
age	-.0023578	.0010405	-2.27	0.025	-.0044195	-.0002962
dosso	.3588156	.084329	4.25	0.000	.1917286	.5259026
avcode						
2	.1542814	.0995278	1.55	0.124	-.0429202	.351483
3	-.3674662	.0828107	-4.44	0.000	-.5315449	-.2033874
4	-.2926411	.0857275	-3.41	0.001	-.4624992	-.122783
5	-.2384126	.0969158	-2.46	0.015	-.4304388	-.0463864
6	-.0092147	.0337783	-0.27	0.786	-.0761421	.0577126
8	.0091788	.0435093	0.21	0.833	-.0770293	.0953869
9	.113174	.0922615	1.23	0.223	-.0696304	.2959784
10	.297619	.2343227	1.27	0.207	-.1666615	.7618995
11	-.0102384	.0601511	-0.17	0.865	-.1294202	.1089433
12	.0902157	.0561096	1.61	0.111	-.0209583	.2013897
13	-.3181553	.0860715	-3.70	0.000	-.4886949	-.1476157
14	-.2914032	.0995354	-2.93	0.004	-.4886199	-.0941866
15	-.1725761	.1792665	-0.96	0.338	-.5277696	.1826175
16	.1170906	.1779624	0.66	0.512	-.235519	.4697002
17	-.0548059	.028267	-1.94	0.055	-.1108132	.0012014
18	.3245622	.1093285	2.97	0.004	.1079417	.5411827
19	-.3930823	.0831724	-4.73	0.000	-.5578777	-.2282869
20	.0254368	.0483266	0.53	0.600	-.0703161	.1211898
21	0	(omitted)				

22	- .1052079	.1740995	-0.60	0.547	- .4501637	.2397479
23	- .3819689	.0795201	-4.80	0.000	- .5395278	- .22441
24	- .3764139	.0802293	-4.69	0.000	- .535378	- .2174498
_cons	.0421313	.0509929	0.83	0.410	- .0589046	.1431672

```
. est store base_line_2
```

```
. reg mathz1 abc i.avc, cluster(codev)
```

Linear regression	Number of obs	=	5,982
	F(23, 112)	=	8.16
	Prob > F	=	0.0000
	R-squared	=	0.0199
	Root MSE	=	.90412

(Std. err. adjusted for 113 clusters in codevillage)

	mathz1	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
	abc	-.0593326	.0468961	-1.27	0.208	-.1522512 .033586
avcode	2	.0625439	.0924042	0.68	0.500	-.1205432 .245631
	3	-.0176523	.1308971	-0.13	0.893	-.2770082 .2417035
	4	-.0692193	.1275946	-0.54	0.589	-.3220315 .183593
	5	-.1202344	.0840566	-1.43	0.155	-.2867818 .046313
	6	-.2029252	.0670745	-3.03	0.003	-.3358247 -.0700256
	8	-.186536	.0744624	-2.51	0.014	-.3340736 -.0389983
	9	-.0735696	.1021616	-0.72	0.473	-.2759897 .1288505
	10	.1028629	.1989149	0.52	0.606	-.2912615 .4969873
	11	-.2015216	.0855893	-2.35	0.020	-.3711059 -.0319373
	12	-.1222683	.0767666	-1.59	0.114	-.2743715 .029835
	13	-.0344487	.1303188	-0.26	0.792	-.2926587 .2237613
	14	-.2170937	.0755794	-2.87	0.005	-.3668447 -.0673428
	15	.0899308	.2432233	0.37	0.712	-.3919851 .5718466
	16	.080392	.1371445	0.59	0.559	-.1913423 .3521263
	17	-.211454	.0705392	-3.00	0.003	-.3512185 -.0716895
	18	.1173407	.1053573	1.11	0.268	-.0914114 .3260927
19	-.2039475	.1308492	-1.56	0.122	-.4632085 .0553135	
20	-.1537888	.0782359	-1.97	0.052	-.3088033 .0012257	
21	-.2009937	.0712221	-2.82	0.006	-.3421111 -.0598763	
22	-.0865498	.1337841	-0.65	0.519	-.3516259 .1785262	
23	-.277167	.0664611	-4.17	0.000	-.4088512 -.1454829	
24	-.2904979	.0670077	-4.34	0.000	-.4232651 -.1577307	
	_cons	.0819325	.073604	1.11	0.268	-.0639045 .2277694

```
. est store base_line_3
```

```
. reg mathz1 abc female age dosso i.avc, cluster(codev)
note: 21.avcode omitted because of collinearity.
```

Linear regression	Number of obs	=	5,675
	F(25, 112)	=	8.04
	Prob > F	=	0.0000
	R-squared	=	0.0339
	Root MSE	=	.91184

(Std. err. adjusted for 113 clusters in codevillage)

mathz1	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0671249	.0494956	-1.36	0.178	-.1651941	.0309443
female	-.2175978	.0375091	-5.80	0.000	-.2919172	-.1432783
age	-.0015332	.0010447	-1.47	0.145	-.0036032	.0005368
dosso	.1969197	.0761977	2.58	0.011	.0459436	.3478958
avcode						
2	.2634692	.0686632	3.84	0.000	.1274219	.3995165
3	-.0188015	.1321897	-0.14	0.887	-.2807184	.2431155
4	-.0640936	.1285905	-0.50	0.619	-.3188793	.190692
5	-.1254464	.0882364	-1.42	0.158	-.3002755	.0493828
6	-.0091999	.0287968	-0.32	0.750	-.066257	.0478571
8	.0107621	.0454534	0.24	0.813	-.0792981	.1008222
9	.1125617	.0897686	1.25	0.212	-.0653033	.2904268
10	.2863779	.2119594	1.35	0.179	-.1335926	.7063483
11	-.0095482	.0738564	-0.13	0.897	-.1558851	.1367888
12	.079682	.0468187	1.70	0.092	-.0130832	.1724473
13	-.0329992	.1333292	-0.25	0.805	-.2971739	.2311755
14	-.2241771	.0792723	-2.83	0.006	-.381245	-.0671093
15	.0886956	.2427696	0.37	0.716	-.3923213	.5697124
16	.080078	.1396942	0.57	0.568	-.1967081	.3568642
17	-.0378795	.0341381	-1.11	0.270	-.1055198	.0297608
18	.3419282	.087637	3.90	0.000	.1682867	.5155698
19	-.2073141	.1355479	-1.53	0.129	-.4758848	.0612566
20	.0404889	.0578061	0.70	0.485	-.0740465	.1550242
21	0	(omitted)				
22	-.0932146	.1367998	-0.68	0.497	-.3642659	.1778366
23	-.2794646	.0713104	-3.92	0.000	-.420757	-.1381722
24	-.2860503	.0719926	-3.97	0.000	-.4286944	-.1434063
_cons	.0564463	.0536035	1.05	0.295	-.0497622	.1626549

```
. est store base_line_4
```

```
.
. esttab base_line_1 base_line_2 base_line_3 base_line_4 ///
> using ../manuscript/Tables/baseline_check.tex, ///
> style(tex) booktabs keep(abc) ///
> mtitle("log(income)" "price concession" "log(lead times)") ///
> star(* 0.1 ** 0.05 *** 0.01) ///
> se ///
> scalars("r2 R-squared") ///
> replace
(output written to ../manuscript/Tables/baseline_check.tex)
```

```
. /*****TABLE 2 *****/
```

```
. use "ABChousehold.dta", clear
```

```
. keep if year==2009
(2,059 observations deleted)
```

```
. /***** NOTE *****/
```

```
. // For Table one, I generated two versions
. // one version is consistent with the description of the guide file
. // another version is consistent with the original paper's result, because:
. // I think the original paper's method is better, because it clusters the resu
> lt to village level
. // furthermore, it uses the subdistrict's fixed effect in the model.
. // this is more robust than naive comparision of the difference
.
. global Pre_Test_Variables age hhhead eth_hausa hhmem_no edchild_percent assets
> drought cellphone accesscellphone usecellphone makecall receivecall
```

```
.
. // summary statistics
. // I will save these results to stata dta, and use python to combine the resul
> t to latex
```

```
.
. /*
> logout, save("ttest_with_result") dta replace: ttable3 $Pre_Test_Variables, by
> (abc) tvalue
> logout, save("ttest_with_result_mean_std") dta replace: tabstat $Pre_Test_Vari
> ables, by(abc) stat(mean sd) nototal long col(stat)
> */
```

```
. // report the mean and standard deviation
.
. tabstat $Pre_Test_Variables, by(abc) stat(mean sd) nototal long col(stat)
```

abc	Variable	Mean	SD
-----+-----			
0	age	37.86127	13.09617
	hhhead	.5600775	.4968593
	eth_hausa	.7148362	.451928
	hhmem_no	8.421965	4.053834
	edchild_pe-t	.2786161	.2756192
	assets	4.990366	1.608947
	drought	.3853565	.487149
	cellphone	.2959381	.4569054
	accesscell-e	.7630058	.425649
	usecellphone	.5420744	.4987148
	makecall	.6909091	.4629612
	receivecall	.8581818	.3494996
-----+-----			
1	age	37.17534	11.75794
	hhhead	.5473888	.4982313
	eth_hausa	.7206166	.4491292
	hhmem_no	8.327553	4.074195
	edchild_pe-t	.2685527	.2697695
	assets	4.978805	1.574879
	drought	.3795761	.4857496
	cellphone	.2953668	.4566485
	accesscell-e	.7976879	.4021113
	usecellphone	.5728155	.4951504
	makecall	.7254237	.4470589
	receivecall	.8677966	.3392873
-----+-----			

```
. outreg2 using ttest_with_result_mean_std.dta, replace
dir : seeout
```

```
.
.
. foreach i in $Pre_Test_Variables{
2.      xi: reg `i' abc i.avcode, robust cluster(codev)
```

```

3.      outreg2 abc using "Table1_PanelA", dec(2) append dta ctitle ("`var'
> ") nocons
4. }
i.avcode      _Iavcode_1-22      (naturally coded; _Iavcode_1 omitted)

```

```

Linear regression      Number of obs      =      1,038
                      F(21, 94)           =      10.09
                      Prob > F             =      0.0000
                      R-squared            =      0.1039
                      Root MSE          =      11.901

```

(Std. err. adjusted for 95 clusters in codevillage)

age	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.3567906	.9311367	-0.38	0.702	-2.205584	1.492003
_Iavcode_2	-.6610624	3.343874	-0.20	0.844	-7.300403	5.978278
_Iavcode_3	-.9478003	3.130994	-0.30	0.763	-7.164462	5.268861
_Iavcode_4	3.823123	3.399385	1.12	0.264	-2.926436	10.57268
_Iavcode_5	2.704856	3.576323	0.76	0.451	-4.396017	9.805729
_Iavcode_6	-2.235679	4.063755	-0.55	0.584	-10.30436	5.833003
_Iavcode_8	-8.14477	2.965209	-2.75	0.007	-14.03226	-2.257279
_Iavcode_9	-8.085305	2.985504	-2.71	0.008	-14.01309	-2.157517
_Iavcode_10	-6.476962	3.264558	-1.98	0.050	-12.95882	.0048938
_Iavcode_11	-5.690225	2.878396	-1.98	0.051	-11.40535	.0248986
_Iavcode_12	-2.28954	3.854208	-0.59	0.554	-9.94216	5.36308
_Iavcode_13	1.85523	3.140418	0.59	0.556	-4.380143	8.090603
_Iavcode_14	.3461588	3.89545	0.09	0.929	-7.388349	8.080666
_Iavcode_15	.8174565	3.453917	0.24	0.813	-6.040377	7.67529
_Iavcode_16	3.672727	3.524192	1.04	0.300	-3.324639	10.67009
_Iavcode_17	-9.98739	3.045812	-3.28	0.001	-16.03492	-3.939859
_Iavcode_18	-2.563636	4.56644	-0.56	0.576	-11.63041	6.503138
_Iavcode_19	1.127957	3.212146	0.35	0.726	-5.249834	7.505748
_Iavcode_20	-3.872043	3.932902	-0.98	0.327	-11.68091	3.936827
_Iavcode_21	-4.998661	3.072051	-1.63	0.107	-11.09829	1.100968
_Iavcode_22	-5.603605	3.449166	-1.62	0.108	-12.45201	1.244795
_cons	39.6868	2.868775	13.83	0.000	33.99078	45.38282

```

dir : seeout
i.avcode      _Iavcode_1-22      (naturally coded; _Iavcode_1 omitted)

```

```

Linear regression      Number of obs      =      1,033
                      F(21, 94)           =      8.35
                      Prob > F             =      0.0000
                      R-squared            =      0.0135
                      Root MSE          =      .49907

```

(Std. err. adjusted for 95 clusters in codevillage)

hhhead	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0073054	.0193998	-0.38	0.707	-.0458241	.0312133
_Iavcode_2	-.0450436	.055329	-0.81	0.418	-.1549006	.0648133
_Iavcode_3	.0295725	.0674244	0.44	0.662	-.1043002	.1634451
_Iavcode_4	.1156308	.0528021	2.19	0.031	.0107909	.2204706
_Iavcode_5	.006481	.0507431	0.13	0.899	-.0942706	.1072326
_Iavcode_6	.0901786	.0386553	2.33	0.022	.0134275	.1669296
_Iavcode_8	-.0007305	.049708	-0.01	0.988	-.099427	.0979659
_Iavcode_9	-.0904221	.0567853	-1.59	0.115	-.2031706	.0223265
_Iavcode_10	-.0396729	.0501699	-0.79	0.431	-.1392863	.0599405
_Iavcode_11	-.0461851	.0488742	-0.94	0.347	-.1432259	.0508558

_Iavcode_12		.0712662	.0423824	1.68	0.096	-.012885	.1554174
_Iavcode_13		-.0007305	.0769741	-0.01	0.992	-.1535645	.1521034
_Iavcode_14		-.0095175	.0772117	-0.12	0.902	-.1628232	.1437882
_Iavcode_15		.0647926	.0425397	1.52	0.131	-.019671	.1492561
_Iavcode_16		.0545455	.0561584	0.97	0.334	-.0569584	.1660493
_Iavcode_17		-.0216315	.0628755	-0.34	0.732	-.1464723	.1032094
_Iavcode_18		-.0084716	.0867555	-0.10	0.922	-.1807268	.1637835
_Iavcode_19		.1356331	.0522614	2.60	0.011	.0318669	.2393993
_Iavcode_20		-.0158821	.0408933	-0.39	0.699	-.0970766	.0653125
_Iavcode_21		-.0311443	.0513585	-0.61	0.546	-.1331177	.0708292
_Iavcode_22		-.1025524	.0745808	-1.38	0.172	-.2506342	.0455295
_cons		.5498378	.0406818	13.52	0.000	.4690632	.6306124

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

Linear regression	Number of obs	=	1,038
	F(21, 94)	=	3599.44
	Prob > F	=	0.0000
	R-squared	=	0.4094
	Root MSE	=	.34963

(Std. err. adjusted for 95 clusters in codevillage)

eth_hausa	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	.012015	.0349363	0.34	0.732	-.0573518	.0813819
_Iavcode_2	.5264717	.1623353	3.24	0.002	.2041512	.8487923
_Iavcode_3	.5890803	.1602662	3.68	0.000	.270868	.9072926
_Iavcode_4	.581846	.1605774	3.62	0.000	.2630158	.9006762
_Iavcode_5	-.0452808	.1802514	-0.25	0.802	-.4031743	.3126126
_Iavcode_6	-.3806167	.1580759	-2.41	0.018	-.6944801	-.0667533
_Iavcode_8	.5512015	.1595115	3.46	0.001	.2344877	.8679153
_Iavcode_9	.3143505	.1842892	1.71	0.091	-.0515599	.6802609
_Iavcode_10	.3183555	.2018361	1.58	0.118	-.0823949	.7191059
_Iavcode_11	-.2897076	.1580759	-1.83	0.070	-.603571	.0241558
_Iavcode_12	.0933121	.1907411	0.49	0.626	-.2854088	.472033
_Iavcode_13	.5739288	.1601635	3.58	0.001	.2559204	.8919371
_Iavcode_14	.5931936	.1572318	3.77	0.000	.2810062	.905381
_Iavcode_15	.6214676	.1599367	3.89	0.000	.3039095	.9390256
_Iavcode_16	-.2	.1683518	-1.19	0.238	-.5342665	.1342665
_Iavcode_17	.2300159	.2229219	1.03	0.305	-.2126007	.6726326
_Iavcode_18	.4363636	.1710429	2.55	0.012	.096754	.7759732
_Iavcode_19	.6193833	.1580759	3.92	0.000	.3055199	.9332467
_Iavcode_20	.5284742	.1610056	3.28	0.001	.2087938	.8481546
_Iavcode_21	.286232	.167034	1.71	0.090	-.0454179	.6178819
_Iavcode_22	.6207183	.1592317	3.90	0.000	.3045601	.9368766
_cons	.3746092	.1640383	2.28	0.025	.0489072	.7003111

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

Linear regression	Number of obs	=	1,038
	F(21, 94)	=	6.24
	Prob > F	=	0.0000
	R-squared	=	0.0717
	Root MSE	=	3.9542

(Std. err. adjusted for 95 clusters in codevillage)

hhmem_no	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
----------	-------------	---------------------	---	------	----------------------	--

abc	.0217984	.2542599	0.09	0.932	-.4830407	.5266374
_Iavcode_2	.7076377	.7213953	0.98	0.329	-.7247095	2.139985
_Iavcode_3	1.044604	.7436202	1.40	0.163	-.4318712	2.521079
_Iavcode_4	1.819008	.9923548	1.83	0.070	-.1513356	3.789352
_Iavcode_5	.6997523	.7791797	0.90	0.371	-.8473273	2.246832
_Iavcode_6	-1.743275	1.218152	-1.43	0.156	-4.161944	.6753947
_Iavcode_8	-.9932747	.8007989	-1.24	0.218	-2.58328	.5967304
_Iavcode_9	-1.504484	.8015105	-1.88	0.064	-3.095901	.0869343
_Iavcode_10	.1846008	.7618476	0.24	0.809	-1.328066	1.697267
_Iavcode_11	-1.879638	1.080268	-1.74	0.085	-4.024536	.2652592
_Iavcode_12	-.5956403	.7598227	-0.78	0.435	-2.104286	.9130055
_Iavcode_13	1.30218	.7115621	1.83	0.070	-.1106434	2.715003
_Iavcode_14	1.025187	.8579753	1.19	0.235	-.6783433	2.728717
_Iavcode_15	.31431	.7001271	0.45	0.655	-1.075809	1.704429
_Iavcode_16	.7818182	.7357367	1.06	0.291	-.6790042	2.242641
_Iavcode_17	-.9078152	1.094914	-0.83	0.409	-3.081792	1.266161
_Iavcode_18	.6909091	.8648299	0.80	0.426	-1.026231	2.408049
_Iavcode_19	1.438543	1.162211	1.24	0.219	-.8690538	3.746141
_Iavcode_20	.3021798	.8553104	0.35	0.725	-1.396059	2.000419
_Iavcode_21	-.9702172	.7599721	-1.28	0.205	-2.47916	.5387252
_Iavcode_22	2.597531	.6693062	3.88	0.000	1.268608	3.926454
_cons	8.005103	.6280253	12.75	0.000	6.758144	9.252062

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

Linear regression

Number of obs	=	1,012
F(21, 94)	=	84.61
Prob > F	=	0.0000
R-squared	=	0.1475
Root MSE	=	.25437

(Std. err. adjusted for 95 clusters in codevillage)

edchild_pe~t	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0002277	.0183422	-0.01	0.990	-.0366467	.0361912
_Iavcode_2	-.1451826	.0535493	-2.71	0.008	-.251506	-.0388592
_Iavcode_3	-.0184886	.0553946	-0.33	0.739	-.1284759	.0914986
_Iavcode_4	-.0881842	.0610644	-1.44	0.152	-.209429	.0330606
_Iavcode_5	-.1074316	.0672968	-1.60	0.114	-.241051	.0261878
_Iavcode_6	-.0364125	.0699725	-0.52	0.604	-.1753445	.1025196
_Iavcode_8	-.2763289	.0570313	-4.85	0.000	-.3895658	-.163092
_Iavcode_9	-.0542404	.0500933	-1.08	0.282	-.1537018	.0452209
_Iavcode_10	-.0605815	.0612924	-0.99	0.325	-.182279	.061116
_Iavcode_11	-.3597951	.0461299	-7.80	0.000	-.4513871	-.2682031
_Iavcode_12	.0409793	.0696756	0.59	0.558	-.0973634	.1793219
_Iavcode_13	.1294367	.072971	1.77	0.079	-.0154488	.2743222
_Iavcode_14	-.1426885	.0561694	-2.54	0.013	-.2542142	-.0311627
_Iavcode_15	.0657517	.0679865	0.97	0.336	-.0692371	.2007404
_Iavcode_16	-.0373254	.0732813	-0.51	0.612	-.1828273	.1081764
_Iavcode_17	-.1196478	.0502886	-2.38	0.019	-.2194969	-.0197986
_Iavcode_18	-.1195123	.0571305	-2.09	0.039	-.2329461	-.0060784
_Iavcode_19	-.0947199	.0495246	-1.91	0.059	-.1930521	.0036123
_Iavcode_20	-.1791428	.0510777	-3.51	0.001	-.2805588	-.0777268
_Iavcode_21	-.2711462	.0567213	-4.78	0.000	-.3837676	-.1585247
_Iavcode_22	-.0505331	.0492786	-1.03	0.308	-.148377	.0473108
_cons	.359903	.0472928	7.61	0.000	.266002	.4538039

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

Linear regression

Number of obs = 1,038
 F(21, 94) = 13.20
 Prob > F = 0.0000
 R-squared = 0.0598
 Root MSE = 1.5588

(Std. err. adjusted for 95 clusters in codevillage)

assets	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0341962	.0967777	-0.35	0.725	-.2263507	.1579582
_Iavcode_2	.7840979	.2301153	3.41	0.001	.3271986	1.240997
_Iavcode_3	.5208228	.2181326	2.39	0.019	.0877154	.9539302
_Iavcode_4	.3981457	.2111144	1.89	0.062	-.021027	.8173184
_Iavcode_5	.0302749	.3147766	0.10	0.924	-.5947214	.6552713
_Iavcode_6	-.3579651	.1656677	-2.16	0.033	-.6869022	-.029028
_Iavcode_8	.0056713	.2514413	0.02	0.982	-.4935713	.5049139
_Iavcode_9	.2083404	.2814255	0.74	0.461	-.3504366	.7671173
_Iavcode_10	.5151234	.2864328	1.80	0.075	-.0535956	1.083842
_Iavcode_11	.6420349	.1810084	3.55	0.001	.2826385	1.001431
_Iavcode_12	.2113426	.2275849	0.93	0.355	-.2405325	.6632177
_Iavcode_13	.6193076	.3090489	2.00	0.048	.0056838	1.232931
_Iavcode_14	1.169413	.4262613	2.74	0.007	.3230608	2.015764
_Iavcode_15	.1342476	.2340053	0.57	0.568	-.3303753	.5988706
_Iavcode_16	.5454545	.2317108	2.35	0.021	.0853874	1.005522
_Iavcode_17	.2642203	.2356443	1.12	0.265	-.2036569	.7320975
_Iavcode_18	-.1636364	.355084	-0.46	0.646	-.868664	.5413913
_Iavcode_19	-.2216014	.2955759	-0.75	0.455	-.8084743	.3652714
_Iavcode_20	.263247	.2730072	0.96	0.337	-.2788151	.8053092
_Iavcode_21	-.2978771	.2040605	-1.46	0.148	-.7030441	.1072898
_Iavcode_22	1.079313	.1999392	5.40	0.000	.6823287	1.476297
_cons	4.693245	.1698453	27.63	0.000	4.356013	5.030477

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

Linear regression

Number of obs = 1,038
 F(21, 94) = 10.57
 Prob > F = 0.0000
 R-squared = 0.0755
 Root MSE = .47231

(Std. err. adjusted for 95 clusters in codevillage)

drought	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.029972	.0347727	-0.86	0.391	-.099014	.0390701
_Iavcode_2	-.2646685	.0641818	-4.12	0.000	-.392103	-.1372341
_Iavcode_3	-.2848154	.087751	-3.25	0.002	-.459047	-.1105838
_Iavcode_4	-.2579834	.0671993	-3.84	0.000	-.3914092	-.1245576
_Iavcode_5	-.0322349	.0628955	-0.51	0.609	-.1571153	.0926454
_Iavcode_6	-.0120881	.103007	-0.12	0.907	-.2166108	.1924346
_Iavcode_8	-.0575427	.0833676	-0.69	0.492	-.2230709	.1079856
_Iavcode_9	-.1131534	.2535495	-0.45	0.656	-.6165818	.390275
_Iavcode_10	-.1989016	.0753997	-2.64	0.010	-.3486094	-.0491938
_Iavcode_11	-.1029972	.0699717	-1.47	0.144	-.2419277	.0359333
_Iavcode_12	-.2059944	.1004607	-2.05	0.043	-.4054614	-.0065274
_Iavcode_13	-.3529972	.0757173	-4.66	0.000	-.5033357	-.2026587
_Iavcode_14	-.1094205	.159738	-0.68	0.495	-.4265841	.2077431
_Iavcode_15	-.1295322	.0946992	-1.37	0.175	-.3175596	.0584952

```

_Iavcode_16 | -1.10e-14   .087092   -0.00   1.000   -.1729232   .1729232
_Iavcode_17 | .0635867   .1158494    0.55   0.584   -.1664351   .2936085
_Iavcode_18 | .0545455   .0656953    0.83   0.408   -.0758942   .1849851
_Iavcode_19 | -.3757245   .0590824   -6.36   0.000   -.4930339   -.258415
_Iavcode_20 | .0333664   .1117675    0.30   0.766   -.1885505   .2552834
_Iavcode_21 | -.0882998   .0768295   -1.15   0.253   -.2408466   .064247
_Iavcode_22 | -.3487517   .0878121   -3.97   0.000   -.5231047   -.1743986
_cons       | .5270741   .0588432    8.96   0.000   .4102396   .6439086
-----

```

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

```

Linear regression                               Number of obs   =       1,035
                                                F(21, 94)      =       19.21
                                                Prob > F       =       0.0000
                                                R-squared      =       0.0991
                                                Root MSE      =       .43782

```

(Std. err. adjusted for 95 clusters in codevillage)

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-----
      cellphone |      Coefficient   Robust      t   P>|t|   [95% conf. interval]
-----+-----
      abc       |   -.0037592      .0266485   -0.14  0.888   -.0566704   .049152
_Iavcode_2     |   -.0724767      .1144164   -0.63  0.528   -.2996532   .1546999
_Iavcode_3     |   -.1034062      .1207499   -0.86  0.394   -.343158    .1363455
_Iavcode_4     |   .1025983       .114247    0.90   0.371   -.1242418   .3294384
_Iavcode_5     |   .0171794       .1264084    0.14   0.892   -.2338075   .2681662
_Iavcode_6     |   -.3003759      .1102424   -2.72  0.008   -.5192648   -.081487
_Iavcode_8     |   -.2549214      .1100382   -2.32  0.023   -.4734048   -.0364379
_Iavcode_9     |   -.1330827      .1518101   -0.88  0.383   -.4345052   .1683397
_Iavcode_10    |   .0020278       .1164196    0.02   0.986   -.229126    .2331817
_Iavcode_11    |   -.0731032      .1048788   -0.70  0.488   -.2813425   .1351361
_Iavcode_12    |   -.0916609      .1148137   -0.80  0.427   -.3196262   .1363044
_Iavcode_13    |   .1425853       .1068138    1.33   0.185   -.069496    .3546667
_Iavcode_14    |   .2980112       .1130654    2.64   0.010   .0735173    .5225052
_Iavcode_15    |   .0004562       .1169839    0.00   0.997   -.2318181   .2327305
_Iavcode_16    |   .024888        .1215585    0.20   0.838   -.2164692   .2662452
_Iavcode_17    |   .0187457       .1206435    0.16   0.877   -.2207948   .2582862
_Iavcode_18    |   -.2181818      .1332133   -1.64  0.105   -.48268     .0463163
_Iavcode_19    |   -.2549214      .1228253   -2.08  0.041   -.4987939   -.0110488
_Iavcode_20    |   -.2094668      .1107489   -1.89  0.062   -.4293614   .0104278
_Iavcode_21    |   -.2549783      .108673    -2.35  0.021   -.4707512   -.0392055
_Iavcode_22    |   .0796778       .1092635    0.73   0.468   -.1372675   .296623
_cons          |   .3477101       .10299     3.38   0.001   .1432211   .5521991
-----

```

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

```

Linear regression                               Number of obs   =       1,038
                                                F(21, 94)      =       17.35
                                                Prob > F       =       0.0000
                                                R-squared      =       0.2022
                                                Root MSE      =       .37378

```

(Std. err. adjusted for 95 clusters in codevillage)

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-----
accesscell-e |      Coefficient   Robust      t   P>|t|   [95% conf. interval]
-----+-----
      abc       |   .0427679      .0230579    1.85   0.067   -.0030141   .08855
_Iavcode_2     |   -.0937603      .0684315   -1.37  0.174   -.2296327   .0421121
_Iavcode_3     |   -.0260262      .0819988   -0.32  0.752   -.1888367   .1367843

```

_Iavcode_4		.0215526	.0690124	0.31	0.756	-.1154732	.1585785
_Iavcode_5		.0417078	.0738344	0.56	0.573	-.1048922	.1883078
_Iavcode_6		-.2684505	.1046788	-2.56	0.012	-.4762926	-.0606084
_Iavcode_8		-.4502687	.0997885	-4.51	0.000	-.648401	-.2521363
_Iavcode_9		-.0937603	.0754084	-1.24	0.217	-.2434854	.0559648
_Iavcode_10		-.0643528	.070542	-0.91	0.364	-.2044156	.07571
_Iavcode_11		-.1320868	.0689408	-1.92	0.058	-.2689704	.0047967
_Iavcode_12		-.136901	.0991779	-1.38	0.171	-.3338211	.0600192
_Iavcode_13		.0270041	.0793867	0.34	0.734	-.13062	.1846281
_Iavcode_14		-.0082807	.0793938	-0.10	0.917	-.165919	.1493576
_Iavcode_15		-.0810687	.0837648	-0.97	0.336	-.2473855	.0852482
_Iavcode_16		.0545455	.0702781	0.78	0.440	-.0849934	.1940843
_Iavcode_17		-.0973243	.0972539	-1.00	0.320	-.2904241	.0957755
_Iavcode_18		-.3636364	.0953282	-3.81	0.000	-.5529127	-.17436
_Iavcode_19		.0042768	.0833491	0.05	0.959	-.1612148	.1697683
_Iavcode_20		-.4654202	.105171	-4.43	0.000	-.6742396	-.2566007
_Iavcode_21		-.4950752	.0736541	-6.72	0.000	-.6413172	-.3488332
_Iavcode_22		.0443823	.0770661	0.58	0.566	-.1086343	.1973989
_cons		.8834301	.0660787	13.37	0.000	.7522293	1.014631

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

Linear regression		Number of obs	=	1,026
		F(21, 94)	=	8.01
		Prob > F	=	0.0000
		R-squared	=	0.1225
		Root MSE	=	.47035

(Std. err. adjusted for 95 clusters in codevillage)

usecellphone		Robust				
	Coefficient	std. err.	t	P> t	[95% conf. interval]	
abc	.0359607	.0320567	1.12	0.265	-.0276886	.09961
_Iavcode_2	.0116262	.107133	0.11	0.914	-.2010888	.2243412
_Iavcode_3	-.1388282	.1137638	-1.22	0.225	-.3647089	.0870526
_Iavcode_4	.0387632	.1106069	0.35	0.727	-.1808494	.2583758
_Iavcode_5	.094438	.1196203	0.79	0.432	-.1430709	.3319469
_Iavcode_6	-.1691312	.1518595	-1.11	0.268	-.4706519	.1323895
_Iavcode_8	-.3431317	.1394144	-2.46	0.016	-.6199423	-.0663211
_Iavcode_9	-.1122501	.1187139	-0.95	0.347	-.3479594	.1234592
_Iavcode_10	-.0541373	.1154178	-0.47	0.640	-.283302	.1750274
_Iavcode_11	-.1920845	.12624	-1.52	0.131	-.4427371	.058568
_Iavcode_12	-.1200806	.125604	-0.96	0.342	-.3694702	.129309
_Iavcode_13	.012687	.1125906	0.11	0.911	-.2108642	.2362382
_Iavcode_14	.1127854	.1264301	0.89	0.375	-.1382445	.3638152
_Iavcode_15	-.0381378	.1555215	-0.25	0.807	-.3469293	.2706538
_Iavcode_16	.0727273	.1129843	0.64	0.521	-.1516056	.2970602
_Iavcode_17	-.0872123	.1459424	-0.60	0.552	-.3769844	.2025598
_Iavcode_18	-.4	.1216121	-3.29	0.001	-.6414636	-.1585364
_Iavcode_19	-.2600403	.1341706	-1.94	0.056	-.5264393	.0063587
_Iavcode_20	-.4115554	.116909	-3.52	0.001	-.6436809	-.17943
_Iavcode_21	-.4235243	.1223031	-3.46	0.001	-.66636	-.1806887
_Iavcode_22	-.0355059	.1241616	-0.29	0.776	-.2820318	.2110199
_cons	.6511509	.105546	6.17	0.000	.4415869	.8607149

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

Linear regression		Number of obs	=	570
		F(21, 92)	=	19.68
		Prob > F	=	0.0000

R-squared = 0.0636
Root MSE = .44838

(Std. err. adjusted for 93 clusters in codevillage)

makecall	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	.0308199	.0391302	0.79	0.433	-.0468962	.1085359
_Iavcode_2	.0943634	.1163854	0.81	0.420	-.1367881	.3255148
_Iavcode_3	.2107526	.0964992	2.18	0.032	.0190969	.4024083
_Iavcode_4	.166125	.1025244	1.62	0.109	-.0374974	.3697473
_Iavcode_5	.0327873	.1075782	0.30	0.761	-.1808722	.2464468
_Iavcode_6	-.3049212	.1045443	-2.92	0.004	-.5125551	-.0972873
_Iavcode_8	.2558111	.10183	2.51	0.014	.0535679	.4580544
_Iavcode_9	.0998809	.0897385	1.11	0.269	-.0783475	.2781092
_Iavcode_10	.0238938	.119029	0.20	0.841	-.212508	.2602956
_Iavcode_11	-.0758423	.1270776	-0.60	0.552	-.3282294	.1765448
_Iavcode_12	-.1019843	.1232906	-0.83	0.410	-.3468501	.1428814
_Iavcode_13	-.0414816	.0980342	-0.42	0.673	-.236186	.1532228
_Iavcode_14	.0258703	.1262815	0.20	0.838	-.2249356	.2766763
_Iavcode_15	.0708463	.1069076	0.66	0.509	-.1414814	.2831741
_Iavcode_16	-.0183581	.0953462	-0.19	0.848	-.2077238	.1710077
_Iavcode_17	-.1053202	.1014232	-1.04	0.302	-.3067555	.096115
_Iavcode_18	.3179938	.0796043	3.99	0.000	.1598927	.4760948
_Iavcode_19	-.0112303	.1713417	-0.07	0.948	-.3515296	.3290691
_Iavcode_20	.0070348	.1430832	0.05	0.961	-.2771409	.2912104
_Iavcode_21	-.0991303	.2277214	-0.44	0.664	-.5514046	.353144
_Iavcode_22	-.0238885	.12316	-0.19	0.847	-.2684948	.2207178
_cons	.6573504	.0908152	7.24	0.000	.4769835	.8377172

dir : seeout

i.avcode _Iavcode_1-22 (naturally coded; _Iavcode_1 omitted)

Linear regression

Number of obs = 570
F(21, 92) = 4.36
Prob > F = 0.0000
R-squared = 0.0802
Root MSE = .33617

(Std. err. adjusted for 93 clusters in codevillage)

receivecall	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	.0289937	.0314504	0.92	0.359	-.0334695	.0914569
_Iavcode_2	-.1941751	.0692003	-2.81	0.006	-.3316129	-.0567374
_Iavcode_3	-.1468187	.0992381	-1.48	0.142	-.3439142	.0502768
_Iavcode_4	.0316505	.0467408	0.68	0.500	-.0611808	.1244818
_Iavcode_5	.0090426	.052232	0.17	0.863	-.0946947	.1127799
_Iavcode_6	-.0031317	.1021867	-0.03	0.976	-.2060834	.19982
_Iavcode_8	-.3447477	.084294	-4.09	0.000	-.5121628	-.1773326
_Iavcode_9	-.0876752	.0420481	-2.09	0.040	-.1711864	-.004164
_Iavcode_10	-.0915746	.1243228	-0.74	0.463	-.3384905	.1553413
_Iavcode_11	-.0190756	.0863518	-0.22	0.826	-.1905777	.1524265
_Iavcode_12	-.0456438	.0612364	-0.75	0.458	-.1672645	.075977
_Iavcode_13	.0485575	.0510706	0.95	0.344	-.0528732	.1499882
_Iavcode_14	-.0406454	.0886599	-0.46	0.648	-.2167317	.1354409
_Iavcode_15	-.039845	.0672526	-0.59	0.555	-.1734144	.0937243
_Iavcode_16	.0555441	.044911	1.24	0.219	-.033653	.1447411
_Iavcode_17	-.040482	.0813143	-0.50	0.620	-.2019792	.1210152
_Iavcode_18	-.3248744	.0828075	-3.92	0.000	-.4893373	-.1604115
_Iavcode_19	-.1432308	.1231919	-1.16	0.248	-.3879004	.1014389

```

 _Iavcode_20 | -.2359247 .1512202 -1.56 0.122 -.5362611 .0644117
 _Iavcode_21 | -.128391 .1041029 -1.23 0.221 -.3351483 .0783663
 _Iavcode_22 | -.0027061 .068988 -0.04 0.969 -.1397222 .1343101
   _cons | .9016794 .0447759 20.14 0.000 .8127506 .9906083
-----

```

```
dir : seeout
```

```
. use "ABCtestscore.dta", clear
```

```
.
. bys codev: keep if _n==1
(23,797 observations deleted)
```

```
. keep codev
```

```
. merge 1:m codev using "ABCteacher.dta"
```

```

Result                                Number of obs
-----
Not matched                            24
   from master                          0  (_merge==1)
   from using                           24  (_merge==2)

Matched                                346  (_merge==3)
-----

```

```
.
. // note that during our operation, we have dropped some of the codes that are
> not contained in the test score result.
. // because these are not relevant to our study.
. tab _m
```

```

Matching result from |
merge | Freq. Percent Cum.
-----+-----
Using only (2) | 24 6.49 6.49
Matched (3) | 346 93.51 100.00
-----+-----
Total | 370 100.00

```

```
. drop if _m==2
(24 observations deleted)
```

```
.
. tabstat levelno teacherage femaleteacher local, by(abc) stat(mean sd) nototal
> long col(stat)
```

```

abc      Variable |      Mean      SD
-----+-----
0      levelno | 8.323171 2.083932
      teacherage | 33.05521 9.157909
      femaleteac~r | .3173653 .4668508
      local | .7573964 .4299312
-----+-----
1      levelno | 8.572254 1.77899
      teacherage | 32.71098 8.067142
      femaleteac~r | .3678161 .4836026
      local | .6818182 .4670994
-----

```

```
. outreg2 using Table1_PanelB_mean_std.dta, replace
dir : seeout
```

```

. foreach i in levelno teacherage femaleteacher local{
2.      xi: reg `i' abc i.avcode, robust cluster(codev)
3.      outreg2 abc using "Table1_PanelB", dec(2) append dta ctitle("`var'
> ") nocons
4.      }
i.avcode      _Iavcode_1-24      (naturally coded; _Iavcode_1 omitted)

```

```

Linear regression      Number of obs      =      337
                      F(23, 112)          =      5.53
                      Prob > F             =      0.0000
                      R-squared            =      0.1854
                      Root MSE           =      1.809

```

(Std. err. adjusted for 113 clusters in codevillage)

levelno	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	.0802486	.2163942	0.37	0.711	-.3485088	.5090059
_Iavcode_2	.7766383	.4873943	1.59	0.114	-.1890711	1.742348
_Iavcode_3	-.0997675	.4987741	-0.20	0.842	-1.088024	.8884894
_Iavcode_4	-1.458649	.5547038	-2.63	0.010	-2.557724	-.3595749
_Iavcode_5	-1.544212	.5694835	-2.71	0.008	-2.67257	-.4158533
_Iavcode_6	.6046218	.388493	1.56	0.122	-.1651274	1.374371
_Iavcode_8	-.6453782	.7568115	-0.85	0.396	-2.144903	.8541466
_Iavcode_9	-.4233617	.5080666	-0.83	0.406	-1.430031	.5833072
_Iavcode_10	-1.570275	.6159605	-2.55	0.012	-2.790721	-.3498279
_Iavcode_11	.4379551	.4186403	1.05	0.298	-.391527	1.267437
_Iavcode_12	.1260214	.4695053	0.27	0.789	-.8042432	1.056286
_Iavcode_13	-1.022576	.5759544	-1.78	0.079	-2.163756	.1186042
_Iavcode_14	-.7287116	.7102468	-1.03	0.307	-2.135975	.6785514
_Iavcode_15	-1.266434	.7836363	-1.62	0.109	-2.819109	.2862407
_Iavcode_16	-1.551345	.7007669	-2.21	0.029	-2.939825	-.1628652
_Iavcode_17	-.4153933	.4462345	-0.93	0.354	-1.29955	.4687631
_Iavcode_18	-.2878679	.5382422	-0.53	0.594	-1.354326	.77859
_Iavcode_19	-1.951962	.8113422	-2.41	0.018	-3.559533	-.3443914
_Iavcode_20	-.1642395	.5176675	-0.32	0.752	-1.189931	.8614523
_Iavcode_21	.2335659	.4171043	0.56	0.577	-.5928729	1.060005
_Iavcode_22	-2.273979	.8728006	-2.61	0.010	-4.003321	-.544636
_Iavcode_23	-1.860399	.8612325	-2.16	0.033	-3.566821	-.1539772
_Iavcode_24	.0246321	.5246059	0.05	0.963	-1.014807	1.064072
_cons	9.175213	.3998824	22.94	0.000	8.382897	9.967528

dir : seeout

```

i.avcode      _Iavcode_1-24      (naturally coded; _Iavcode_1 omitted)

```

```

Linear regression      Number of obs      =      336
                      F(23, 112)          =      5.52
                      Prob > F             =      0.0000
                      R-squared            =      0.1531
                      Root MSE           =      8.2031

```

(Std. err. adjusted for 113 clusters in codevillage)

teacherage	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.3090361	1.184916	-0.26	0.795	-2.656794	2.038722
_Iavcode_2	1.017627	6.510191	0.16	0.876	-11.88148	13.91674
_Iavcode_3	-1.008223	6.259481	-0.16	0.872	-13.41058	11.39414
_Iavcode_4	.0109708	6.062758	0.00	0.999	-12.00161	12.02355

_Iavcode_5	-4.119334	5.6608	-0.73	0.468	-15.33548	7.096816
_Iavcode_6	-5.995103	5.624389	-1.07	0.289	-17.13911	5.148903
_Iavcode_8	.6715632	6.027858	0.11	0.911	-11.27186	12.61499
_Iavcode_9	-2.682373	6.325358	-0.42	0.672	-15.21526	9.850514
_Iavcode_10	3.896965	5.946039	0.66	0.514	-7.884349	15.67828
_Iavcode_11	-6.995103	5.735281	-1.22	0.225	-18.35883	4.36862
_Iavcode_12	-.9108465	6.222668	-0.15	0.884	-13.24027	11.41857
_Iavcode_13	-2.209963	6.810797	-0.32	0.746	-15.70469	11.28476
_Iavcode_14	.6715632	6.110963	0.11	0.913	-11.43653	12.77965
_Iavcode_15	-2.008223	6.271264	-0.32	0.749	-14.43393	10.41748
_Iavcode_16	-5.069642	5.783922	-0.88	0.383	-16.52974	6.390459
_Iavcode_17	4.947868	6.151285	0.80	0.423	-7.240114	17.13585
_Iavcode_18	-2.612147	6.11147	-0.43	0.670	-14.72124	9.496947
_Iavcode_19	-4.681449	5.756291	-0.81	0.418	-16.0868	6.723904
_Iavcode_20	-5.41833	5.762586	-0.94	0.349	-16.83615	5.999495
_Iavcode_21	-7.222365	5.902732	-1.22	0.224	-18.91787	4.473142
_Iavcode_22	5.95582	7.191021	0.83	0.409	-8.292265	20.20391
_Iavcode_23	-.8235171	6.247559	-0.13	0.895	-13.20225	11.55522
_Iavcode_24	1.450353	5.718558	0.25	0.800	-9.880236	12.78094
_cons	34.36779	5.620765	6.11	0.000	23.23097	45.50462

dir : seeout

i.avcode _Iavcode_1-24 (naturally coded; _Iavcode_1 omitted)

Linear regression	Number of obs	=	341
	F(23, 112)	=	27.91
	Prob > F	=	0.0000
	R-squared	=	0.0844
	Root MSE	=	.47115

(Std. err. adjusted for 113 clusters in codevillage)

femaletc~r	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	.0604638	.0434274	1.39	0.167	-.025582	.1465095
_Iavcode_2	.2354816	.0738566	3.19	0.002	.0891442	.3818189
_Iavcode_3	.1671093	.1089034	1.53	0.128	-.0486689	.3828875
_Iavcode_4	.2382333	.1091432	2.18	0.031	.0219801	.4544865
_Iavcode_5	.2782204	.1260676	2.21	0.029	.0284336	.5280072
_Iavcode_6	.4314507	.0591226	7.30	0.000	.3143068	.5485945
_Iavcode_8	.264784	.1688384	1.57	0.120	-.0697477	.5993156
_Iavcode_9	.2354816	.0738566	3.19	0.002	.0891442	.3818189
_Iavcode_10	.3941439	.1489835	2.65	0.009	.0989523	.6893355
_Iavcode_11	.5981173	.0833069	7.18	0.000	.4330553	.7631793
_Iavcode_12	.3865859	.1112895	3.47	0.001	.1660801	.6070918
_Iavcode_13	.4043185	.0724673	5.58	0.000	.2607338	.5479032
_Iavcode_14	-.0685493	.0572327	-1.20	0.234	-.1819485	.0448499
_Iavcode_15	.3337759	.143568	2.32	0.022	.0493144	.6182375
_Iavcode_16	.1395125	.1490788	0.94	0.351	-.155868	.434893
_Iavcode_17	.514784	.0984471	5.23	0.000	.3197236	.7098444
_Iavcode_18	.43397	.0984395	4.41	0.000	.2389247	.6290153
_Iavcode_19	.2849386	.1707857	1.67	0.098	-.0534515	.6233286
_Iavcode_20	.3270577	.0886265	3.69	0.000	.1514556	.5026599
_Iavcode_21	.3337759	.1069981	3.12	0.002	.121773	.5457789
_Iavcode_22	.1365859	.1188467	1.15	0.253	-.0988936	.3720654
_Iavcode_23	.363912	.0874067	4.16	0.000	.1907268	.5370972
_Iavcode_24	.24647	.1370623	1.80	0.075	-.0251014	.5180414
_cons	.0282402	.0621356	0.45	0.650	-.0948735	.1513538

dir : seeout

i.avcode _Iavcode_1-24 (naturally coded; _Iavcode_1 omitted)


```

Linear regression               Number of obs   =       345
                               F(23, 112)       =     1313.50
                               Prob > F         =       0.0000
                               R-squared        =       0.4900
                               Root MSE     =       .33285

```

(Std. err. adjusted for 113 clusters in codevillage)

local	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.02373	.0509235	-0.47	0.642	-.1246283	.0771684
_Iavcode_2	-.2910595	.2874665	-1.01	0.313	-.8606375	.2785185
_Iavcode_3	.3052492	.1911376	1.60	0.113	-.0734655	.6839638
_Iavcode_4	.30459	.191271	1.59	0.114	-.074389	.683569
_Iavcode_5	.3052492	.1911434	1.60	0.113	-.0734769	.6839753
_Iavcode_6	-.6894775	.1904403	-3.62	0.000	-1.06681	-.3121445
_Iavcode_8	-.1894775	.2571869	-0.74	0.463	-.6990604	.3201054
_Iavcode_9	-.3910595	.3061824	-1.28	0.204	-.9977208	.2156018
_Iavcode_10	-.074365	.2836363	-0.26	0.794	-.636354	.487624
_Iavcode_11	-.6894775	.1904403	-3.62	0.000	-1.06681	-.3121445
_Iavcode_12	-.1963987	.2660542	-0.74	0.462	-.7235511	.3307536
_Iavcode_13	.2085044	.2106028	0.99	0.324	-.2087779	.6257868
_Iavcode_14	.3105225	.1903514	1.63	0.106	-.0666343	.6876793
_Iavcode_15	.3052492	.1911376	1.60	0.113	-.0734655	.6839638
_Iavcode_16	.3065675	.1908938	1.61	0.111	-.0716642	.6847992
_Iavcode_17	-.3561442	.2369494	-1.50	0.136	-.8256291	.1133407
_Iavcode_18	-.3154662	.2682648	-1.18	0.242	-.8469986	.2160661
_Iavcode_19	.3014825	.192128	1.57	0.119	-.0791944	.6821594
_Iavcode_20	-.2476697	.2437167	-1.02	0.312	-.7305631	.2352237
_Iavcode_21	-.5280842	.2270513	-2.33	0.022	-.9779572	-.0782111
_Iavcode_22	.3036013	.191523	1.59	0.116	-.075877	.6830795
_Iavcode_23	.1875	.2174885	0.86	0.390	-.2434256	.6184256
_Iavcode_24	.3095338	.1904579	1.63	0.107	-.0678342	.6869017
_cons	.7052975	.1946061	3.62	0.000	.3197104	1.090885

dir : seeout

```

.
. use "ABCTestscore.dta", clear
.
. tabstat writez1 mathz1, by(abc) stat(mean sd) nototal long col(stat)

abc      Variable |      Mean      SD
-----+-----
0      writez1 | -1.03e-08 .9998296
      mathz1 | -6.69e-09 .9998296
-----+-----
1      writez1 | -.026852 .8858414
      mathz1 | -.0712108 .8159666
-----+-----

. outreg2 using Table1_PanelC_mean_std.dta, replace
dir : seeout

.
.
. foreach i of varlist writez1 mathz1 {
2.      xi: reg `i' abc i.avc, cluster(codev)
3.      outreg2 abc using "Table1_PanelC", dec(2) append dta ctitle ("`var'
> ") nocons
4.      }

```

i.avcode _Iavcode_1-24 (naturally coded; _Iavcode_1 omitted)

```

Linear regression                               Number of obs   =       5,982
                                                F(23, 112)     =        4.22
                                                Prob > F        =       0.0000
                                                R-squared       =       0.0224
                                                Root MSE       =       .9347

```

(Std. err. adjusted for 113 clusters in codevillage)

writez1	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0230921	.0399616	-0.58	0.565	-.1022709	.0560867
_Iavcode_2	-.2052144	.1216767	-1.69	0.094	-.4463011	.0358723
_Iavcode_3	-.3711898	.0773765	-4.80	0.000	-.5245013	-.2178782
_Iavcode_4	-.3032091	.0811349	-3.74	0.000	-.4639674	-.1424508
_Iavcode_5	-.2361261	.0929439	-2.54	0.012	-.4202826	-.0519696
_Iavcode_6	-.3646186	.0790297	-4.61	0.000	-.5212059	-.2080313
_Iavcode_8	-.3464581	.083205	-4.16	0.000	-.5113182	-.181598
_Iavcode_9	-.2341432	.111874	-2.09	0.039	-.4558072	-.0124791
_Iavcode_10	-.0489395	.2207886	-0.22	0.825	-.4864039	.3885248
_Iavcode_11	-.3634914	.0869115	-4.18	0.000	-.5356955	-.1912874
_Iavcode_12	-.27556	.0900153	-3.06	0.003	-.4539138	-.0972062
_Iavcode_13	-.3252861	.0807738	-4.03	0.000	-.485329	-.1652432
_Iavcode_14	-.2848496	.0958569	-2.97	0.004	-.4747777	-.0949214
_Iavcode_15	-.1754577	.1762696	-1.00	0.322	-.5247133	.1737979
_Iavcode_16	.1108725	.1750943	0.63	0.528	-.2360545	.4577995
_Iavcode_17	-.3840173	.0773277	-4.97	0.000	-.5372323	-.2308023
_Iavcode_18	-.0624857	.1315787	-0.47	0.636	-.3231921	.1982207
_Iavcode_19	-.3935956	.0776814	-5.07	0.000	-.5475114	-.2396798
_Iavcode_20	-.3272519	.08237	-3.97	0.000	-.4904574	-.1640463
_Iavcode_21	-.3633844	.0784376	-4.63	0.000	-.5187985	-.2079702
_Iavcode_22	-.1000956	.1718358	-0.58	0.561	-.4405661	.240375
_Iavcode_23	-.3799316	.0744152	-5.11	0.000	-.5273757	-.2324874
_Iavcode_24	-.3851199	.0748474	-5.15	0.000	-.5334204	-.2368195
_cons	.2450349	.0808129	3.03	0.003	.0849145	.4051553

dir : seeout

i.avcode _Iavcode_1-24 (naturally coded; _Iavcode_1 omitted)

```

Linear regression                               Number of obs   =       5,982
                                                F(23, 112)     =        8.16
                                                Prob > F        =       0.0000
                                                R-squared       =       0.0199
                                                Root MSE       =       .90412

```

(Std. err. adjusted for 113 clusters in codevillage)

mathz1	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0593326	.0468961	-1.27	0.208	-.1522512	.033586
_Iavcode_2	.0625439	.0924042	0.68	0.500	-.1205432	.245631
_Iavcode_3	-.0176523	.1308971	-0.13	0.893	-.2770082	.2417035
_Iavcode_4	-.0692193	.1275946	-0.54	0.589	-.3220315	.183593
_Iavcode_5	-.1202344	.0840566	-1.43	0.155	-.2867818	.046313
_Iavcode_6	-.2029252	.0670745	-3.03	0.003	-.3358247	-.0700256
_Iavcode_8	-.186536	.0744624	-2.51	0.014	-.3340736	-.0389983
_Iavcode_9	-.0735696	.1021616	-0.72	0.473	-.2759897	.1288505
_Iavcode_10	.1028629	.1989149	0.52	0.606	-.2912615	.4969873
_Iavcode_11	-.2015216	.0855893	-2.35	0.020	-.3711059	-.0319373
_Iavcode_12	-.1222683	.0767666	-1.59	0.114	-.2743715	.029835

```

_1avcode_13 | -.0344487 .1303188 -0.26 0.792 -.2926587 .2237613
_1avcode_14 | -.2170937 .0755794 -2.87 0.005 -.3668447 -.0673428
_1avcode_15 | .0899308 .2432233 0.37 0.712 -.3919851 .5718466
_1avcode_16 | .080392 .1371445 0.59 0.559 -.1913423 .3521263
_1avcode_17 | -.211454 .0705392 -3.00 0.003 -.3512185 -.0716895
_1avcode_18 | .1173407 .1053573 1.11 0.268 -.0914114 .3260927
_1avcode_19 | -.2039475 .1308492 -1.56 0.122 -.4632085 .0553135
_1avcode_20 | -.1537888 .0782359 -1.97 0.052 -.3088033 .0012257
_1avcode_21 | -.2009937 .0712221 -2.82 0.006 -.3421111 -.0598763
_1avcode_22 | -.0865498 .1337841 -0.65 0.519 -.3516259 .1785262
_1avcode_23 | -.277167 .0664611 -4.17 0.000 -.4088512 -.1454829
_1avcode_24 | -.2904979 .0670077 -4.34 0.000 -.4232651 -.1577307
_cons | .0819325 .073604 1.11 0.268 -.0639045 .2277694
-----

```

dir : seeout

```

.
. // now run the python code in jupyter notebook to generate the latex table in
> paper.
.
. /*****TABLE 3 *****/
. /* Difference-In-Difference Estimation*/
.
. use "ABCtestscore.dta", clear

.
. keep if round==1|round==2|round==4
(8,848 observations deleted)

.
. regress writezscore abc post abcpst i.avc, robust cluster(codev)

```

```

Linear regression                                Number of obs   =    13,402
                                                F(25, 112)      =      7.22
                                                Prob > F         =    0.0000
                                                R-squared        =    0.0323
                                                Root MSE        =    .9824

```

(Std. err. adjusted for 113 clusters in codevillage)

```

-----
writezscore |      Coefficient   Robust      t    P>|t|    [95% conf. interval]
-----+-----
      abc | -.0510589   .0465429   -1.10   0.275   -.1432777   .04116
      post | -.0039726   .0587009   -0.07   0.946   -.1202809   .1123357
      abcpst | .1992111   .0879969    2.26   0.026   .0248564   .3735657
      avc |
      2 | -.0906601   .1079392   -0.84   0.403   -.3045277   .1232075
      3 | -.183981   .1017302   -1.81   0.073   -.3855465   .0175844
      4 | -.2894135   .1066402   -2.71   0.008   -.5007075   -.0781196
      5 | -.2452143   .1044592   -2.35   0.021   -.452187   -.0382417
      6 | -.46009   .1292994   -3.56   0.001   -.7162801   -.2038998
      8 | -.2800115   .1198111   -2.34   0.021   -.5174018   -.0426211
      9 | -.1620166   .1055456   -1.54   0.128   -.3711417   .0471086
     10 | -.0048311   .2000725   -0.02   0.981   -.4012491   .391587
     11 | -.390521   .0870401   -4.49   0.000   -.5629798   -.2180621
     12 | -.2878447   .1350846   -2.13   0.035   -.5554976   -.0201919
     13 | -.1591703   .1127097   -1.41   0.161   -.38249   .0641495
     14 | -.2646314   .1041042   -2.54   0.012   -.4709005   -.0583622
     15 | -.129693   .1554394   -0.83   0.406   -.4376763   .1782902
     16 | .0366599   .1324394    0.28   0.782   -.2257518   .2990716
     17 | -.1387642   .1230681   -1.13   0.262   -.3826078   .1050794

```

18		-.1951126	.1235594	-1.58	0.117	-.4399297	.0497046
19		-.679253	.0982517	-6.91	0.000	-.8739262	-.4845797
20		-.3457518	.1202588	-2.88	0.005	-.5840293	-.1074744
21		-.267037	.1218386	-2.19	0.030	-.5084445	-.0256295
22		.1134695	.1612048	0.70	0.483	-.2059372	.4328761
23		-.0857758	.1191486	-0.72	0.473	-.3218534	.1503018
24		-.2650121	.1637743	-1.62	0.108	-.58951	.0594857
_cons		.2043208	.0933573	2.19	0.031	.0193453	.3892962

. est store did_1

.

. regress mathzscore abc post abcpst i.avc, robust cluster(codev)

Linear regression

Number of obs	=	13,420
F(25, 112)	=	8.71
Prob > F	=	0.0000
R-squared	=	0.0387
Root MSE	=	.95166

(Std. err. adjusted for 113 clusters in codevillage)

mathzscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0951747	.0548499	-1.74	0.085	-.2038528	.0135033
post	-.00444	.065844	-0.07	0.946	-.1349015	.1260214
abcpst	.2495865	.0897821	2.78	0.006	.0716947	.4274783
avcode						
2	-.082131	.1782522	-0.46	0.646	-.4353149	.2710528
3	-.0925166	.1727398	-0.54	0.593	-.4347783	.2497451
4	-.3735547	.1702757	-2.19	0.030	-.7109342	-.0361752
5	-.1247134	.1690281	-0.74	0.462	-.459621	.2101942
6	-.5222786	.148996	-3.51	0.001	-.8174952	-.2270621
8	-.268576	.1565125	-1.72	0.089	-.5786855	.0415336
9	-.208784	.1494414	-1.40	0.165	-.504883	.087315
10	-.1499738	.1724666	-0.87	0.386	-.4916944	.1917467
11	-.2986701	.1561977	-1.91	0.058	-.6081558	.0108157
12	-.3242764	.1605311	-2.02	0.046	-.6423481	-.0062046
13	-.1888014	.1604644	-1.18	0.242	-.5067411	.1291383
14	-.486933	.178265	-2.73	0.007	-.8401423	-.1337236
15	-.1148496	.2321587	-0.49	0.622	-.5748424	.3451432
16	.0418162	.2112213	0.20	0.843	-.3766916	.460324
17	-.2581149	.1577508	-1.64	0.105	-.5706779	.054448
18	-.2168221	.166191	-1.30	0.195	-.5461083	.1124642
19	-.7515548	.1848091	-4.07	0.000	-1.11773	-.3853792
20	-.2996786	.1726373	-1.74	0.085	-.6417372	.0423801
21	-.3697023	.1827287	-2.02	0.045	-.7317558	-.0076488
22	-.0746031	.2050252	-0.36	0.717	-.4808343	.3316281
23	-.1667	.1775515	-0.94	0.350	-.5184955	.1850954
24	-.2404897	.1853159	-1.30	0.197	-.6076695	.12669
_cons	.2406417	.1498708	1.61	0.111	-.0563082	.5375915

. est store did_2

.

. regress writezscore abc post abcpst age female zarma kanuri dosso i.avc, robu

> st cluster(codev)

Linear regression	Number of obs	=	12,823
	F(28, 112)	=	.
	Prob > F	=	.
	R-squared	=	0.0841
	Root MSE	=	.96124

writezscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.0550791	.0503067	-1.09	0.276	-.1547553	.0445971
post	-.0052542	.0598876	-0.09	0.930	-.1239138	.1134054
abcpost	.2060991	.0880806	2.34	0.021	.0315787	.3806196
age	-.0100185	.0010229	-9.79	0.000	-.0120452	-.0079918
female	-.422774	.0324581	-13.03	0.000	-.4870855	-.3584624
zarma	-.1243937	.1057711	-1.18	0.242	-.3339655	.0851782
kanuri	-.1453456	.1060114	-1.37	0.173	-.3553936	.0647023
dosso	.3834023	.1047878	3.66	0.000	.1757786	.5910259
avcode						
2	.1387582	.1246294	1.11	0.268	-.108179	.3856953
3	-.268829	.0572569	-4.70	0.000	-.3822763	-.1553817
4	-.3318701	.0502921	-6.60	0.000	-.4315175	-.2322227
5	-.2208393	.1226682	-1.80	0.075	-.4638906	.022212
6	-.0577199	.1676177	-0.34	0.731	-.3898329	.2743931
8	-.000999	.1281626	-0.01	0.994	-.2549368	.2529388
9	.1096527	.1391078	0.79	0.432	-.1659716	.3852771
10	.2264182	.2074351	1.09	0.277	-.1845878	.6374242
11	-.1705492	.1017395	-1.68	0.096	-.372133	.0310347
12	-.0089675	.1505911	-0.06	0.953	-.3073445	.2894094
13	-.2182531	.0614261	-3.55	0.001	-.3399611	-.0965451
14	-.3756919	.0560114	-6.71	0.000	-.4866713	-.2647126
15	-.2104435	.145473	-1.45	0.151	-.4986796	.0777926
16	.088227	.1346647	0.66	0.514	-.1785938	.3550479
17	.08145	.1392305	0.59	0.560	-.1944174	.3573175
18	.084162	.1285724	0.65	0.514	-.1705877	.3389117
19	-.7718081	.0503207	-15.34	0.000	-.8715121	-.6721041
20	-.1003749	.1456929	-0.69	0.492	-.3890466	.1882969
21	0	(omitted)				
22	-.0013611	.1286655	-0.01	0.992	-.2562953	.2535731
23	-.2019155	.0803801	-2.51	0.013	-.3611783	-.0426526
24	-.3243647	.1146495	-2.83	0.006	-.551528	-.0972014
_cons	.5003294	.1155349	4.33	0.000	.2714118	.729247

```
. regress mathzscore abc post abcpost age female hausa zarma kanuri dosso i.avc,
> robust cluster(codev)
note: kanuri omitted because of collinearity.
note: 21.avcode omitted because of collinearity.
```

Linear regression	Number of obs	=	12,840
	F(28, 112)	=	.
	Prob > F	=	.
	R-squared	=	0.0824
	Root MSE	=	.93591

(Std. err. adjusted for 113 clusters in codevillage)

mathzscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.105952	.0594318	-1.78	0.077	-.2237086	.0118045
post	-.0103319	.0679903	-0.15	0.879	-.145046	.1243822
abcpst	.2638597	.0922572	2.86	0.005	.081064	.4466555
age	-.0088965	.0010682	-8.33	0.000	-.0110131	-.00678
female	-.3779148	.0326013	-11.59	0.000	-.44251	-.3133196
hausa	.0932102	.0730168	1.28	0.204	-.0514633	.2378836
zarma	.1057464	.1834039	0.58	0.565	-.2576449	.4691377
kanuri	0	(omitted)				
dosso	.3626226	.1232071	2.94	0.004	.1185034	.6067417
avcode						
2	.268268	.1617104	1.66	0.100	-.0521404	.5886763
3	-.06535	.0920711	-0.71	0.479	-.247777	.117077
4	-.3094394	.0837591	-3.69	0.000	-.4753973	-.1434815
5	-.1222296	.1807902	-0.68	0.500	-.4804422	.235983
6	-.0766599	.1412152	-0.54	0.588	-.3564596	.2031399
8	.0829937	.1301713	0.64	0.525	-.1749239	.3409114
9	.1486676	.1302288	1.14	0.256	-.1093641	.4066993
10	.1749696	.1550554	1.13	0.262	-.1322527	.482192
11	.0005789	.1234509	0.00	0.996	-.2440232	.2451809
12	.0370997	.1425613	0.26	0.795	-.2453673	.3195668
13	-.1389413	.0652473	-2.13	0.035	-.2682205	-.0096621
14	-.4829835	.0999152	-4.83	0.000	-.6809526	-.2850144
15	-.0844382	.1922667	-0.44	0.661	-.46539	.2965137
16	.0673805	.2137162	0.32	0.753	-.3560707	.4908316
17	.0614323	.1356061	0.45	0.651	-.2072538	.3301185
18	.1601654	.1415728	1.13	0.260	-.120343	.4406738
19	-.7326965	.113865	-6.43	0.000	-.9583054	-.5070876
20	.0532177	.1632214	0.33	0.745	-.2701846	.37662
21	0	(omitted)				
22	-.0748024	.1376478	-0.54	0.588	-.347534	.1979291
23	-.1663476	.0947249	-1.76	0.082	-.3540328	.0213377
24	-.1903549	.0968322	-1.97	0.052	-.3822156	.0015057
_cons	.2908555	.1517514	1.92	0.058	-.0098204	.5915314

. est store did_4

.
. generate agesq = age * age
(758 missing values generated)

. regress writezscore abc post abcpst age agesq female zarma kanuri dosso i.avc
> , robust cluster(codev)
note: 21.avcode omitted because of collinearity.

Linear regression	Number of obs	=	12,823
	F(29, 112)	=	.
	Prob > F	=	.
	R-squared	=	0.0852
	Root MSE	=	.96068

(Std. err. adjusted for 113 clusters in codevillage)

writezscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
-------------	-------------	---------------------	---	------	----------------------	--

abc	-.0556091	.0502835	-1.11	0.271	-.1552393	.0440212
post	-.0041433	.0599477	-0.07	0.945	-.122922	.1146354
abcpst	.2053414	.088065	2.33	0.022	.0308519	.3798308
age	.0035228	.004061	0.87	0.388	-.0045236	.0115692
agesq	-.0001758	.0000494	-3.56	0.001	-.0002738	-.0000778
female	-.4199216	.0321456	-13.06	0.000	-.4836141	-.3562292
zarma	-.1337417	.1016719	-1.32	0.191	-.3351915	.0677082
kanuri	-.1396212	.108159	-1.29	0.199	-.3539243	.0746819
dosso	.3954	.1042005	3.79	0.000	.1889402	.6018598
avcode						
2	.1364994	.1274856	1.07	0.287	-.1160971	.3890958
3	-.2852728	.0552272	-5.17	0.000	-.3946985	-.1758472
4	-.3479106	.0501266	-6.94	0.000	-.4472301	-.2485911
5	-.2208747	.1190167	-1.86	0.066	-.4566911	.0149418
6	-.0691594	.1712647	-0.40	0.687	-.4084984	.2701796
8	.0016404	.127715	0.01	0.990	-.2514105	.2546913
9	.1125322	.1364198	0.82	0.411	-.1577661	.3828305
10	.2289574	.2067217	1.11	0.270	-.1806352	.6385499
11	-.154831	.1025477	-1.51	0.134	-.3580161	.048354
12	-.0105509	.1529626	-0.07	0.945	-.3136267	.2925249
13	-.2267797	.0620862	-3.65	0.000	-.3497955	-.1037639
14	-.3890739	.0566752	-6.86	0.000	-.5013685	-.2767793
15	-.2320266	.1458889	-1.59	0.115	-.5210868	.0570335
16	.0818397	.128478	0.64	0.525	-.172723	.3364024
17	.0798223	.1379494	0.58	0.564	-.1935068	.3531514
18	.0804048	.1281812	0.63	0.532	-.1735698	.3343795
19	-.7866782	.0510107	-15.42	0.000	-.8877493	-.6856071
20	-.0997755	.1448084	-0.69	0.492	-.3866948	.1871437
21	0	(omitted)				
22	-.0145482	.1298051	-0.11	0.911	-.2717404	.242644
23	-.2162934	.0826966	-2.62	0.010	-.3801462	-.0524407
24	-.3294515	.1137905	-2.90	0.005	-.5549129	-.1039901
_cons	.2668819	.1389208	1.92	0.057	-.0083718	.5421356

. est store did_5

```
.
. regress mathzscore abc post abcpst age agesq female zarma kanuri dosso i.avc,
> robust cluster(codev)
note: 21.avcode omitted because of collinearity.
```

Linear regression	Number of obs	=	12,840
	F(29, 112)	=	.
	Prob > F	=	.
	R-squared	=	0.0834
	Root MSE	=	.93544

(Std. err. adjusted for 113 clusters in codevillage)

mathzscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	-.1064173	.0592745	-1.80	0.075	-.2238621	.0110275
post	-.009312	.0680841	-0.14	0.891	-.1442119	.1255878
abcpst	.2631894	.0922854	2.85	0.005	.0803376	.4460411
age	.0034686	.0043576	0.80	0.428	-.0051655	.0121027
agesq	-.0001605	.000055	-2.92	0.004	-.0002694	-.0000516
female	-.3753278	.0324433	-11.57	0.000	-.43961	-.3110456
zarma	.003916	.1634816	0.02	0.981	-.3200019	.3278339
kanuri	-.0880252	.0754579	-1.17	0.246	-.2375354	.061485

dosso		.3736709	.1225222	3.05	0.003	.1309089	.6164329
avcode							
2		.2662544	.1626552	1.64	0.104	-.056026	.5885348
3		-.0803924	.0902928	-0.89	0.375	-.259296	.0985113
4		-.3240728	.0846412	-3.83	0.000	-.4917785	-.1563671
5		-.1220011	.1768527	-0.69	0.492	-.472412	.2284099
6		-.0869908	.1415421	-0.61	0.540	-.3674384	.1934567
8		.0854807	.1291402	0.66	0.509	-.170394	.3413553
9		.1513965	.1288535	1.17	0.243	-.1039101	.4067032
10		.1773566	.1549541	1.14	0.255	-.1296651	.4843783
11		.0150215	.1264835	0.12	0.906	-.2355893	.2656322
12		.0358183	.1431655	0.25	0.803	-.2478458	.3194825
13		-.1467585	.0657588	-2.23	0.028	-.277051	-.0164659
14		-.4952641	.0992215	-4.99	0.000	-.6918587	-.2986695
15		-.1041566	.1931611	-0.54	0.591	-.4868805	.2785674
16		.0615991	.2080679	0.30	0.768	-.3506608	.4738591
17		.0600293	.134215	0.45	0.656	-.2059006	.3259592
18		.1568323	.1409379	1.11	0.268	-.1224181	.4360827
19		-.7462927	.1133911	-6.58	0.000	-.9709627	-.5216226
20		.0537575	.1620974	0.33	0.741	-.2674178	.3749327
21		0	(omitted)				
22		-.0867922	.1389986	-0.62	0.534	-.3622002	.1886158
23		-.179502	.0964194	-1.86	0.065	-.3705446	.0115406
24		-.1950376	.0950146	-2.05	0.042	-.3832969	-.0067784
_cons		.1707563	.1583278	1.08	0.283	-.1429498	.4844625

```
. est store did_6
```

```
. qui tab codevillage, gen(village_dum)
```

```
. reg writezscore abc post abcpst age agesq female village_dum*, robust cluster
> (codev)
```

note: village_dum23 omitted because of collinearity.

note: village_dum71 omitted because of collinearity.

Linear regression	Number of obs	=	12,823
	F(4, 112)	=	.
	Prob > F	=	.
	R-squared	=	0.1310
	Root MSE	=	.93953

(Std. err. adjusted for 113 clusters in codevillage)

writezscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
abc	.2000127	.0409423	4.89	0.000	.1188908 .2811347
post	-.0121467	.0602387	-0.20	0.841	-.131502 .1072085
abcpst	.1981458	.0900948	2.20	0.030	.0196346 .3766571
age	.0035513	.0038522	0.92	0.359	-.0040813 .0111838
agesq	-.0001729	.0000476	-3.64	0.000	-.0002671 -.0000786
female	-.42022	.0318673	-13.19	0.000	-.4833609 -.3570791
village_dum1	.2463838	.0120014	20.53	0.000	.2226045 .2701631
village_dum2	.3594132	.0114612	31.36	0.000	.3367043 .3821221
village_dum3	-.0304211	.0057636	-5.28	0.000	-.041841 -.0190012
village_dum4	.3483127	.0112254	31.03	0.000	.326071 .3705543
village_dum5	-.2166004	.0053286	-40.65	0.000	-.2271583 -.2060425
village_dum6	.3707893	.0138283	26.81	0.000	.3433903 .3981883

village_dum7	.0085449	.0075632	1.13	0.261	-.0064405	.0235304
village_dum8	.2758065	.0130167	21.19	0.000	.2500156	.3015975
village_dum9	.2509161	.0112013	22.40	0.000	.2287221	.27311
village_dum10	-.0493719	.0053025	-9.31	0.000	-.059878	-.0388657
village_dum11	.4104497	.0188899	21.73	0.000	.3730217	.4478777
village_dum12	.2046092	.0073339	27.90	0.000	.190078	.2191405
village_dum13	.3452605	.0118047	29.25	0.000	.321871	.3686501
village_dum14	1.049788	.0139625	75.19	0.000	1.022123	1.077453
village_dum15	.0268117	.0056937	4.71	0.000	.0155304	.038093
village_dum16	.0829354	.0055801	14.86	0.000	.0718791	.0939916
village_dum17	-.0787306	.012587	-6.25	0.000	-.1036702	-.0537911
village_dum18	.0301431	.0112097	2.69	0.008	.0079326	.0523537
village_dum19	.2509395	.0221304	11.34	0.000	.207091	.2947881
village_dum20	.1350521	.0102752	13.14	0.000	.1146931	.1554112
village_dum21	.292485	.0092702	31.55	0.000	.2741173	.3108526
village_dum22	.3646007	.0131779	27.67	0.000	.3384904	.390711
village_dum23	0	(omitted)				
village_dum24	-.122782	.0147775	-8.31	0.000	-.1520617	-.0935022
village_dum25	.2294518	.0153605	14.94	0.000	.1990169	.2598866
village_dum26	-.043829	.0062296	-7.04	0.000	-.0561721	-.031486
village_dum27	.4659355	.0088764	52.49	0.000	.4483481	.483523
village_dum28	.3299478	.0171415	19.25	0.000	.2959841	.3639114
village_dum29	-.0959563	.0054068	-17.75	0.000	-.1066692	-.0852433
village_dum30	.4381723	.0085531	51.23	0.000	.4212255	.4551191
village_dum31	.3144499	.0145556	21.60	0.000	.2856099	.34329
village_dum32	.4706423	.0218307	21.56	0.000	.4273876	.513897
village_dum33	-.1921805	.0148748	-12.92	0.000	-.221653	-.1627079
village_dum34	.2782096	.0166371	16.72	0.000	.2452453	.3111739
village_dum35	.4653453	.0128306	36.27	0.000	.439923	.4907675
village_dum36	.1857377	.0113258	16.40	0.000	.1632971	.2081783
village_dum37	-.1328043	.0049865	-26.63	0.000	-.1426844	-.1229243
village_dum38	.3033545	.005656	53.63	0.000	.2921479	.3145611
village_dum39	.6047206	.0119595	50.56	0.000	.5810244	.6284168
village_dum40	.7469455	.0073236	101.99	0.000	.7324348	.7614563
village_dum41	.0820559	.00511	16.06	0.000	.071931	.0921808
village_dum42	.8363101	.0136051	61.47	0.000	.8093534	.8632669
village_dum43	.3680188	.0123875	29.71	0.000	.3434745	.3925631
village_dum44	.6109077	.0061925	98.65	0.000	.598638	.6231773
village_dum45	-.3060901	.014849	-20.61	0.000	-.3355114	-.2766688
village_dum46	-.1230971	.0129077	-9.54	0.000	-.148672	-.0975222
village_dum47	-.4282263	.0103153	-41.51	0.000	-.4486647	-.4077878
village_dum48	-.0446813	.0127734	-3.50	0.001	-.0699903	-.0193724
village_dum49	.1746349	.0063877	27.34	0.000	.1619785	.1872913
village_dum50	.1084691	.0155095	6.99	0.000	.0777389	.1391993
village_dum51	.0750311	.0118576	6.33	0.000	.0515367	.0985255
village_dum52	.0917464	.0103363	8.88	0.000	.0712663	.1122265
village_dum53	-.1370117	.0061662	-22.22	0.000	-.1492293	-.1247941
village_dum54	.6250278	.0115922	53.92	0.000	.6020594	.6479962
village_dum55	-.0005771	.0059555	-0.10	0.923	-.0123771	.0112228
village_dum56	.5881901	.0206581	28.47	0.000	.5472588	.6291214
village_dum57	.5582569	.0143967	38.78	0.000	.5297317	.586782
village_dum58	.0658919	.0055316	11.91	0.000	.0549317	.076852
village_dum59	-.0551618	.0104185	-5.29	0.000	-.0758048	-.0345188
village_dum60	.5489568	.0188675	29.10	0.000	.5115734	.5863403
village_dum61	.2446412	.004813	50.83	0.000	.2351049	.2541775
village_dum62	.3517421	.0067813	51.87	0.000	.3383058	.3651784
village_dum63	.0262433	.0052229	5.02	0.000	.0158949	.0365917
village_dum64	-.1307429	.0104654	-12.49	0.000	-.1514788	-.110007
village_dum65	.1924216	.0122953	15.65	0.000	.16806	.2167831
village_dum66	.413397	.0117836	35.08	0.000	.3900493	.4367447
village_dum67	.1047458	.0065449	16.00	0.000	.0917779	.1177137
village_dum68	.3082862	.0120073	25.67	0.000	.2844952	.3320772
village_dum69	-.0362231	.0138807	-2.61	0.010	-.0637259	-.0087204

village_dum70	-.2047813	.0136022	-15.05	0.000	-.2317324	-.1778302
village_dum71	0	(omitted)				
village_dum72	.5147862	.0084002	61.28	0.000	.4981424	.53143
village_dum73	.0333197	.0162646	2.05	0.043	.0010934	.0655459
village_dum74	.0101105	.0063275	1.60	0.113	-.0024267	.0226478
village_dum75	.1320347	.0068668	19.23	0.000	.118429	.1456405
village_dum76	-.0916407	.0159302	-5.75	0.000	-.1232043	-.0600772
village_dum77	.2873811	.0111221	25.84	0.000	.2653442	.3094181
village_dum78	-.3089412	.0067091	-46.05	0.000	-.3222344	-.295648
village_dum79	.2622445	.0157479	16.65	0.000	.231042	.293447
village_dum80	.4049001	.0155201	26.09	0.000	.3741491	.435651
village_dum81	-.1971048	.0060174	-32.76	0.000	-.2090276	-.1851821
village_dum82	.0200442	.0119882	1.67	0.097	-.003709	.0437974
village_dum83	-.095612	.0100623	-9.50	0.000	-.1155491	-.0756749
village_dum84	.2209478	.0145085	15.23	0.000	.192201	.2496946
village_dum85	.4659644	.0132508	35.16	0.000	.4397095	.4922192
village_dum86	.3321916	.0094833	35.03	0.000	.3134017	.3509814
village_dum87	.1503892	.0146662	10.25	0.000	.1213301	.1794484
village_dum88	.2690468	.0110279	24.40	0.000	.2471964	.2908972
village_dum89	-.1688341	.0068497	-24.65	0.000	-.182406	-.1552623
village_dum90	.6203053	.0081072	76.51	0.000	.6042419	.6363686
village_dum91	-.0884095	.0082307	-10.74	0.000	-.1047177	-.0721014
village_dum92	-.2753335	.014496	-18.99	0.000	-.3040555	-.2466115
village_dum93	.0915902	.0134923	6.79	0.000	.0648569	.1183236
village_dum94	.5520984	.0106833	51.68	0.000	.5309307	.5732661
village_dum95	-.1543976	.0098757	-15.63	0.000	-.1739651	-.1348302
village_dum96	.0108074	.0169062	0.64	0.524	-.0226901	.0443048
village_dum97	1.172814	.0039729	295.20	0.000	1.164942	1.180686
village_dum98	.285212	.0122306	23.32	0.000	.2609786	.3094453
village_dum99	-.342363	.0146582	-23.36	0.000	-.3714064	-.3133196
village_d~100	-.1649565	.0235799	-7.00	0.000	-.211677	-.118236
village_d~101	.5504485	.0029785	184.80	0.000	.5445469	.5563501
village_d~102	-.0800508	.0082518	-9.70	0.000	-.0964007	-.0637009
village_d~103	.1635836	.0043785	37.36	0.000	.1549082	.172259
village_d~104	.0386099	.0064398	6.00	0.000	.0258502	.0513695
village_d~105	-.0427333	.0089744	-4.76	0.000	-.0605149	-.0249516
village_d~106	.0958824	.0055424	17.30	0.000	.0849009	.1068639
village_d~107	.3970639	.0140557	28.25	0.000	.3692142	.4249135
village_d~108	.2835363	.015932	17.80	0.000	.2519691	.3151034
village_d~109	.0000214	.0068973	0.00	0.998	-.0136446	.0136875
village_d~110	.1243371	.0118457	10.50	0.000	.1008664	.1478078
village_d~111	-.5558233	.0136063	-40.85	0.000	-.5827823	-.5288642
village_d~112	-.0863275	.0147459	-5.85	0.000	-.1155447	-.0571104
village_d~113	.2710067	.0152354	17.79	0.000	.2408198	.3011937
_cons	.0503767	.0805497	0.63	0.533	-.1092223	.2099757

```
-----
. est store did_7
```

```
.
. reg mathzscore abc post abcpst age agesq female village_dum*, robust cluster(
> codev)
note: village_dum23 omitted because of collinearity.
note: village_dum71 omitted because of collinearity.
```

Linear regression	Number of obs	=	12,840
	F(4, 112)	=	.
	Prob > F	=	.
	R-squared	=	0.1393
	Root MSE	=	.90959

```
(Std. err. adjusted for 113 clusters in codevillage)
-----
```

mathzscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abc	.2304088	.0424443	5.43	0.000	.1463109	.3145067
post	-.0269673	.0692329	-0.39	0.698	-.1641434	.1102087
abcpst	.2581796	.0942908	2.74	0.007	.0713545	.4450047
age	.0014676	.0040803	0.36	0.720	-.006617	.0095522
agesq	-.0001277	.0000508	-2.51	0.013	-.0002285	-.000027
female	-.3739415	.0324674	-11.52	0.000	-.4382715	-.3096115
village_dum1	.1340469	.0104668	12.81	0.000	.1133082	.1547855
village_dum2	.6172878	.0107638	57.35	0.000	.5959606	.638615
village_dum3	.1121939	.0055464	20.23	0.000	.1012044	.1231833
village_dum4	.0476657	.0106083	4.49	0.000	.0266467	.0686847
village_dum5	-.2245481	.0051292	-43.78	0.000	-.2347109	-.2143853
village_dum6	.57214	.0156429	36.58	0.000	.5411457	.6031344
village_dum7	.1769142	.0077772	22.75	0.000	.1615046	.1923238
village_dum8	.5647013	.0112651	50.13	0.000	.5423811	.5870216
village_dum9	.5767816	.0127261	45.32	0.000	.5515665	.6019966
village_dum10	-.0268811	.0050898	-5.28	0.000	-.0369659	-.0167962
village_dum11	.7422923	.0203261	36.52	0.000	.7020187	.7825658
village_dum12	.2898047	.0078318	37.00	0.000	.274287	.3053223
village_dum13	.3964721	.0126973	31.22	0.000	.371314	.4216303
village_dum14	1.437935	.0151704	94.79	0.000	1.407877	1.467993
village_dum15	-.080201	.005773	-13.89	0.000	-.0916395	-.0687625
village_dum16	.0220621	.0055657	3.96	0.000	.0110343	.0330899
village_dum17	.3294287	.0108356	30.40	0.000	.3079594	.3508981
village_dum18	.0143654	.0111573	1.29	0.201	-.0077414	.0364721
village_dum19	.4050257	.0219306	18.47	0.000	.361573	.4484785
village_dum20	.1595526	.0110434	14.45	0.000	.1376715	.1814337
village_dum21	.0388279	.0095568	4.06	0.000	.0198923	.0577634
village_dum22	.6583834	.0142258	46.28	0.000	.6301968	.68657
village_dum23	0	(omitted)				
village_dum24	-.2701003	.0130883	-20.64	0.000	-.2960331	-.2441675
village_dum25	.4073737	.0162667	25.04	0.000	.3751434	.4396041
village_dum26	.0945878	.0062123	15.23	0.000	.0822788	.1068967
village_dum27	.2911824	.007901	36.85	0.000	.2755276	.3068373
village_dum28	.7692604	.0184037	41.80	0.000	.7327958	.8057249
village_dum29	-.0933571	.0053484	-17.46	0.000	-.1039543	-.0827598
village_dum30	.5304775	.0087941	60.32	0.000	.5130532	.5479018
village_dum31	.3664185	.0144708	25.32	0.000	.3377465	.3950906
village_dum32	.5243534	.0225591	23.24	0.000	.4796555	.5690513
village_dum33	-.0941615	.0148258	-6.35	0.000	-.1235369	-.0647861
village_dum34	.6177983	.0179047	34.50	0.000	.5823224	.6532742
village_dum35	.3967689	.0115812	34.26	0.000	.3738222	.4197155
village_dum36	.2593729	.0114671	22.62	0.000	.2366522	.2820935
village_dum37	.1308264	.0049358	26.51	0.000	.1210469	.140606
village_dum38	.5692132	.0059825	95.15	0.000	.5573596	.5810668
village_dum39	.6312953	.011525	54.78	0.000	.6084601	.6541306
village_dum40	.2490621	.0078883	31.57	0.000	.2334324	.2646918
village_dum41	.1946032	.0047017	41.39	0.000	.1852873	.2039191
village_dum42	.7854782	.0119751	65.59	0.000	.761751	.8092053
village_dum43	.291605	.014299	20.39	0.000	.2632734	.3199367
village_dum44	.6651024	.0064149	103.68	0.000	.6523921	.6778128
village_dum45	-.3652751	.0164423	-22.22	0.000	-.3978534	-.3326967
village_dum46	-.0590672	.014429	-4.09	0.000	-.0876564	-.0304781
village_dum47	-.0989499	.0089006	-11.12	0.000	-.1165854	-.0813144
village_dum48	-.0538021	.0128661	-4.18	0.000	-.0792946	-.0283095
village_dum49	.1233083	.0061411	20.08	0.000	.1111405	.1354762
village_dum50	-.1059587	.014749	-7.18	0.000	-.135182	-.0767354
village_dum51	.1040803	.0104587	9.95	0.000	.0833577	.1248029
village_dum52	-.1020964	.0101783	-10.03	0.000	-.1222634	-.0819294
village_dum53	-.2980892	.0059544	-50.06	0.000	-.3098871	-.2862913
village_dum54	.879559	.0130979	67.15	0.000	.8536072	.9055108

village_dum55		.0227232	.0057806	3.93	0.000	.0112696	.0341768
village_dum56		.4625065	.0214378	21.57	0.000	.4200303	.5049827
village_dum57		.7876855	.0126405	62.31	0.000	.7626401	.8127309
village_dum58		.3254212	.005368	60.62	0.000	.3147851	.3360573
village_dum59		-.0691536	.0111554	-6.20	0.000	-.0912567	-.0470506
village_dum60		.6435241	.02005	32.10	0.000	.6037977	.6832506
village_dum61		.7981737	.0052147	153.06	0.000	.7878414	.8085059
village_dum62		.5254195	.0069438	75.67	0.000	.5116612	.5391777
village_dum63		.4912544	.0055708	88.18	0.000	.4802165	.5022923
village_dum64		.2971935	.0089458	33.22	0.000	.2794686	.3149185
village_dum65		.0620621	.0113341	5.48	0.000	.0396051	.0845192
village_dum66		.7914963	.0095686	82.72	0.000	.7725373	.8104553
village_dum67		.3461106	.006939	49.88	0.000	.3323619	.3598593
village_dum68		.3548055	.0111941	31.70	0.000	.3326259	.3769851
village_dum69		.144745	.0124008	11.67	0.000	.1201744	.1693156
village_dum70		-.1462085	.0121	-12.08	0.000	-.170183	-.1222339
village_dum71		0	(omitted)				
village_dum72		.4309493	.0085322	50.51	0.000	.4140438	.4478548
village_dum73		.0986976	.0147858	6.68	0.000	.0694015	.1279937
village_dum74		.4232973	.0068322	61.96	0.000	.4097601	.4368345
village_dum75		.1901039	.0072444	26.24	0.000	.17575	.2044578
village_dum76		.1680752	.0180188	9.33	0.000	.1323731	.2037772
village_dum77		.2816224	.0123935	22.72	0.000	.2570663	.3061785
village_dum78		-.2342353	.0061579	-38.04	0.000	-.2464365	-.2220342
village_dum79		.1845568	.0139647	13.22	0.000	.1568876	.212226
village_dum80		.6649395	.0173373	38.35	0.000	.6305879	.6992912
village_dum81		-.1650774	.0056778	-29.07	0.000	-.1763273	-.1538275
village_dum82		-.1862645	.0112038	-16.63	0.000	-.2084634	-.1640655
village_dum83		-.0190238	.0110537	-1.72	0.088	-.0409253	.0028776
village_dum84		.3361813	.0131455	25.57	0.000	.3101351	.3622274
village_dum85		.5654703	.0145002	39.00	0.000	.53674	.5942007
village_dum86		.377591	.0098252	38.43	0.000	.3581236	.3970585
village_dum87		.1150872	.0132007	8.72	0.000	.0889318	.1412427
village_dum88		.4554562	.0117098	38.90	0.000	.4322548	.4786577
village_dum89		-.0764105	.0063255	-12.08	0.000	-.0889436	-.0638774
village_dum90		.5886127	.0089668	65.64	0.000	.5708461	.6063792
village_dum91		-.0286019	.0076692	-3.73	0.000	-.0437975	-.0134064
village_dum92		-.1631718	.0133078	-12.26	0.000	-.1895396	-.136804
village_dum93		.2248553	.0153166	14.68	0.000	.1945074	.2552032
village_dum94		.5213362	.0121439	42.93	0.000	.4972746	.5453978
village_dum95		.0025262	.0092995	0.27	0.786	-.0158996	.020952
village_dum96		-.0152691	.0155402	-0.98	0.328	-.0460599	.0155218
village_dum97		.6015611	.0034217	175.81	0.000	.5947814	.6083408
village_dum98		.4379961	.0133729	32.75	0.000	.4114994	.4644928
village_dum99		-.2128962	.0128816	-16.53	0.000	-.2384194	-.187373
village_d-100		.0261496	.0233281	1.12	0.265	-.0200719	.0723712
village_d-101		.5731722	.0032539	176.15	0.000	.566725	.5796194
village_d-102		-.0715143	.0074591	-9.59	0.000	-.0862936	-.0567351
village_d-103		.1229107	.0046703	26.32	0.000	.1136571	.1321644
village_d-104		.2589786	.0067059	38.62	0.000	.2456918	.2722654
village_d-105		-.0897122	.0082611	-10.86	0.000	-.1060805	-.0733439
village_d-106		.4165499	.0057679	72.22	0.000	.4051214	.4279783
village_d-107		.6256733	.015856	39.46	0.000	.5942568	.6570898
village_d-108		.6600402	.0176457	37.41	0.000	.6250775	.695003
village_d-109		.1066969	.0068667	15.54	0.000	.0930913	.1203025
village_d-110		.3307869	.0120544	27.44	0.000	.3069027	.3546712
village_d-111		-.4362401	.0122494	-35.61	0.000	-.4605108	-.4119694
village_d-112		.0973619	.0129308	7.53	0.000	.0717412	.1229827
village_d-113		.3751599	.014136	26.54	0.000	.3471513	.4031684
_cons		-.0898277	.0876636	-1.02	0.308	-.2635219	.0838664

. est store did_8

```
.
. esttab did_* ///
> using ../manuscript/Tables/did_result.tex, ///
> style(tex) booktabs keep(abc post abcpst age agesq female) ///
> mtitle("literacy" "math" "literacy" "math" "literacy" "math" "literacy" "math"
> ) ///
> star(* 0.1 ** 0.05 *** 0.01) ///
> se ///
> scalars("r2 R-squared") ///
> replace
(output written to ../manuscript/Tables/did_result.tex)
```

```
.
. /*****TABLE 4 *****/
. /* Difference-In-Difference-In-Difference Estimation*/
.
. use "ABCtestscore.dta", clear
```

```
.
. keep if round==1|round==2|round==4
(8,848 observations deleted)
```

```
.
. generate agesq = age * age
(758 missing values generated)
```

```
. capture drop region regionpost regionabc abcregionpost
```

```
. gen region=dosso==1
```

```
. gen regionpost=region*post
```

```
. gen regionabc=region*abc
```

```
. gen abcregionpost=regionabc*post
```

```
.
. reg writzscore abcpst abc post region regionpost regionabc abcregionpost coh
> ort2009 female age agesq i.avc, robust cluster(codev)
note: 21.avcode omitted because of collinearity.
```

Linear regression	Number of obs	=	12,823
	F(32, 112)	=	17.62
	Prob > F	=	0.0000
	R-squared	=	0.0867
	Root MSE	=	.95998

(Std. err. adjusted for 113 clusters in codevillage)

		Robust				
writzscore	Coefficient	std. err.	t	P> t	[95% conf. interval]	
abcpst	.1875113	.1546648	1.21	0.228	-.1189371	.4939597
abc	-.0645277	.0708698	-0.91	0.365	-.2049472	.0758917
post	-.0647489	.1104386	-0.59	0.559	-.2835688	.154071
region	.2101382	.1447979	1.45	0.150	-.0767602	.4970366
regionpost	.07895	.1294945	0.61	0.543	-.1776269	.3355268
regionabc	.0141632	.0953904	0.15	0.882	-.1748406	.2031671
abcregionpost	.0350682	.1858886	0.19	0.851	-.3332461	.4033825
cohort2009	.0761185	.0469876	1.62	0.108	-.0169814	.1692184
female	-.4209914	.0323125	-13.03	0.000	-.4850145	-.3569684
age	.0032988	.0041922	0.79	0.433	-.0050075	.0116052

agesq	-.0001733	.0000507	-3.42	0.001	-.0002737	-.0000729
avcode						
2	.1311723	.1228699	1.07	0.288	-.1122787	.3746233
3	-.1592494	.0848302	-1.88	0.063	-.3273295	.0088308
4	-.2273826	.0936891	-2.43	0.017	-.4130157	-.0417496
5	-.2269041	.1051112	-2.16	0.033	-.4351685	-.0186397
6	-.2049445	.1416413	-1.45	0.151	-.4855886	.0756995
8	.0035552	.1271581	0.03	0.978	-.2483922	.2555027
9	.0539037	.1132944	0.48	0.635	-.1705747	.2783821
10	.2146739	.2216326	0.97	0.335	-.2244627	.6538106
11	-.147341	.0994785	-1.48	0.141	-.3444449	.049763
12	-.051788	.1551379	-0.33	0.739	-.3591739	.2555979
13	-.0824452	.1021807	-0.81	0.421	-.2849032	.1200128
14	-.2402021	.0833075	-2.88	0.005	-.4052651	-.075139
15	-.1066155	.1510305	-0.71	0.482	-.4058631	.1926321
16	.0642228	.1040609	0.62	0.538	-.1419606	.2704061
17	.0832575	.1264731	0.66	0.512	-.1673328	.3338478
18	.0791907	.1226077	0.65	0.520	-.1637407	.3221221
19	-.6747156	.0959081	-7.04	0.000	-.8647453	-.4846859
20	-.0988615	.1439464	-0.69	0.494	-.3840729	.1863499
21	0 (omitted)					
22	.1254239	.152612	0.82	0.413	-.1769572	.427805
23	-.0806136	.1032451	-0.78	0.437	-.2851805	.1239534
24	-.2120672	.1314206	-1.61	0.109	-.4724604	.0483259
_cons	.269378	.1478756	1.82	0.071	-.0236186	.5623745

. est store ddd_1

```
.
. reg mathzscore abcpst abc post region regionpost regionabc abcregionpost coho
> rt2009 female age agesq i.avc, robust cluster(codev)
note: 21.avcode omitted because of collinearity.
```

Linear regression	Number of obs	=	12,840
	F(32, 112)	=	18.76
	Prob > F	=	0.0000
	R-squared	=	0.0906
	Root MSE	=	.93184

(Std. err. adjusted for 113 clusters in codevillage)

mathzscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
abcpst	.1700956	.1361127	1.25	0.214	-.0995944	.4397855
abc	-.091966	.0667008	-1.38	0.171	-.2241251	.0401932
post	-.0722764	.1085576	-0.67	0.507	-.2873694	.1428166
region	.2761222	.1819218	1.52	0.132	-.0843325	.6365769
regionpost	.0676242	.1382878	0.49	0.626	-.2063754	.3416238
regionabc	-.0138299	.1019994	-0.14	0.892	-.2159286	.1882688
abcregionpost	.1621943	.1822125	0.89	0.375	-.1988365	.5232251
cohort2009	.1497525	.044429	3.37	0.001	.0617222	.2377829
female	-.3767175	.0327101	-11.52	0.000	-.4415285	-.3119066
age	.0029241	.004401	0.66	0.508	-.0057958	.011644
agesq	-.000155	.0000554	-2.80	0.006	-.0002647	-.0000452
avcode						
2	.2547139	.1385283	1.84	0.069	-.0197621	.5291899
3	-.0545556	.1410739	-0.39	0.700	-.3340756	.2249643
4	-.3094012	.1566883	-1.97	0.051	-.619859	.0010565

```

5 | -.0910436 .1573528 -0.58 0.564 -.4028181 .2207308
6 | -.165273 .119908 -1.38 0.171 -.4028553 .0723094
8 | .0907038 .1286382 0.71 0.482 -.1641764 .345584
9 | .104275 .1178035 0.89 0.378 -.1291376 .3376877
10 | .1476765 .1663658 0.89 0.377 -.1819559 .4773089
11 | .0321709 .1156865 0.28 0.781 -.1970471 .2613889
12 | -.0001426 .1541682 -0.00 0.999 -.3056072 .305322
13 | -.0841079 .1350368 -0.62 0.535 -.351666 .1834501
14 | -.4284876 .1387466 -3.09 0.003 -.7033961 -.1535791
15 | -.0805993 .2056189 -0.39 0.696 -.4880068 .3268082
16 | .0711743 .1709724 0.42 0.678 -.2675856 .4099342
17 | .0658755 .1195103 0.55 0.583 -.1709188 .3026697
18 | .1540878 .1263141 1.22 0.225 -.0961874 .404363
19 | -.7456012 .170303 -4.38 0.000 -1.083035 -.4081677
20 | .056219 .1598665 0.35 0.726 -.2605358 .3729739
21 | 0 (omitted)
22 | -.0338572 .1828015 -0.19 0.853 -.396055 .3283406
23 | -.1381339 .1564119 -0.88 0.379 -.448044 .1717763
24 | -.1882473 .1542967 -1.22 0.225 -.4939665 .1174718
_cons | .1469647 .1576319 0.93 0.353 -.1653627 .459292
-----

```

```
. est store ddd_2
```

```
.
. reg writezscore abc female post femalepost femaleabc abcpost abcfemalepost coh
> ort2009 age agesq i.avc, robust cluster(codev)
```

```

Linear regression              Number of obs   =    12,823
                              F(32, 112)      =     19.04
                              Prob > F         =     0.0000
                              R-squared        =     0.0995
                              Root MSE     =     .95323

```

(Std. err. adjusted for 113 clusters in codevillage)

```

-----
               |               Robust
writezscore    | Coefficient  std. err.   t    P>|t|    [95% conf. interval]
-----+-----
      abc      | -.0363614   .0615562   -0.59  0.556   -.1583271   .0856043
     female    | -.1418064   .0488895   -2.90  0.004   -.2386747   -.0449382
      post     | .2374158    .063656    3.73  0.000    .1112896   .363542
femalepost    | -.4939304   .0637036   -7.75  0.000   -.6201509   -.3677099
femaleabc     | -.0360335   .0685321   -0.53  0.600   -.171821    .099754
      abcpost  | .174952     .0993676    1.76  0.081   -.0219322   .3718361
abcfemalepost | .0513733    .0920257    0.56  0.578   -.1309639   .2337105
cohort2009    | .0762103    .0469247    1.62  0.107   -.0167649   .1691856
      age      | .0031189    .004167     0.75  0.456   -.0051374   .0113752
      agesq    | -.0001707   .0000506   -3.37  0.001   -.000271    -.0000704

avcode        |
  2           | -.1474886   .0979639   -1.51  0.135   -.3415916   .0466144
  3           | -.1649647   .0846114   -1.95  0.054   -.3326113   .002682
  4           | -.2301215   .0911768   -2.52  0.013   -.4107766   -.0494664
  5           | -.2332138   .1040985   -2.24  0.027   -.4394716   -.0269559
  6           | -.4860539   .1298741   -3.74  0.000   -.7433829   -.2287249
  8           | -.27777     .1047175   -2.65  0.009   -.4852544   -.0702856
  9           | -.2214196   .0866819   -2.55  0.012   -.3931687   -.0496704
 10           | -.0568964   .2068169   -0.28  0.784   -.4666777   .3528848
 11           | -.4245775   .0741329   -5.73  0.000   -.5714624   -.2776926
 12           | -.3273215   .1398347   -2.34  0.021   -.604386    -.050257
 13           | -.089724    .0993974   -0.90  0.369   -.2866672   .1072191

```

14		-.2399954	.0838234	-2.86	0.005	-.4060807	-.0739102
15		-.1092933	.1502068	-0.73	0.468	-.4069088	.1883222
16		.0630432	.1054094	0.60	0.551	-.1458119	.2718984
17		-.2006471	.1066207	-1.88	0.062	-.4119024	.0106083
18		-.201768	.1010589	-2.00	0.048	-.4020033	-.0015327
19		-.6811549	.0948098	-7.18	0.000	-.8690084	-.4933014
20		-.3744653	.1310156	-2.86	0.005	-.6340559	-.1148748
21		-.2741017	.1172135	-2.34	0.021	-.5063453	-.0418581
22		.121534	.1516294	0.80	0.425	-.1789003	.4219683
23		-.0822375	.1036969	-0.79	0.429	-.2876996	.1232247
24		-.212223	.130234	-1.63	0.106	-.470265	.045819
_cons		.3695756	.1213133	3.05	0.003	.129209	.6099423

. est store ddd_3

. reg mathzscore abc female post femalepost femaleabc abcpost abcfemalepost coho
> rt2009 age agesq i.avc, robust cluster(codev)

Linear regression	Number of obs	=	12,840
	F(32, 112)	=	18.70
	Prob > F	=	0.0000
	R-squared	=	0.0923
	Root MSE	=	.93098

(Std. err. adjusted for 113 clusters in codevillage)

mathzscore	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
abc	-.1293793	.076903	-1.68	0.095	-.2817527 .0229941
female	-.2765806	.0599122	-4.62	0.000	-.395289 -.1578723
post	.092556	.0790551	1.17	0.244	-.0640815 .2491934
femalepost	-.2368251	.0668162	-3.54	0.001	-.3692128 -.1044374
femaleabc	.0628764	.0758805	0.83	0.409	-.087471 .2132238
abcpost	.2586065	.105787	2.44	0.016	.0490032 .4682099
abcfemalepost	-.0009824	.0989681	-0.01	0.992	-.1970749 .1951102
cohort2009	.1494374	.0445541	3.35	0.001	.0611591 .2377156
age	.0029417	.0044084	0.67	0.506	-.005793 .0116765
agesq	-.000155	.0000553	-2.80	0.006	-.0002647 -.0000454
avcode					
2	-.1130366	.1483169	-0.76	0.448	-.4069076 .1808343
3	-.0650865	.1434596	-0.45	0.651	-.3493332 .2191603
4	-.32059	.1541014	-2.08	0.040	-.6259223 -.0152577
5	-.102395	.1540043	-0.66	0.507	-.4075347 .2027448
6	-.5389134	.1384046	-3.89	0.000	-.8131443 -.2646824
8	-.2825951	.1424622	-1.98	0.050	-.5648657 -.0003244
9	-.2620838	.1281553	-2.05	0.043	-.516007 -.0081606
10	-.2027223	.1692678	-1.20	0.234	-.5381047 .1326601
11	-.334637	.1284888	-2.60	0.010	-.5892212 -.0800528
12	-.3599667	.1631725	-2.21	0.029	-.6832721 -.0366613
13	-.0997032	.1360239	-0.73	0.465	-.369217 .1698107
14	-.4352235	.142908	-3.05	0.003	-.7183775 -.1520695
15	-.0892117	.2079067	-0.43	0.669	-.5011522 .3227289
16	.0661242	.1757185	0.38	0.707	-.2820394 .4142878
17	-.3059858	.1350285	-2.27	0.025	-.5735275 -.038444
18	-.2178846	.1394121	-1.56	0.121	-.4941118 .0583425
19	-.76147	.1750761	-4.35	0.000	-1.108361 -.4145791
20	-.3071111	.1751122	-1.75	0.082	-.6540735 .0398514
21	-.3587194	.1651457	-2.17	0.032	-.6859345 -.0315043

22		-.046142	.1873087	-0.25	0.806	-.4172702	.3249862
23		-.140965	.1559812	-0.90	0.368	-.4500218	.1680917
24		-.1912196	.1537583	-1.24	0.216	-.4958719	.1134327
_cons		.4109359	.1563463	2.63	0.010	.1011558	.720716

```
. est store ddd_4
```

```
.
. esttab ddd_* ///
> using ../manuscript/Tables/ddd.tex, ///
> style(tex) booktabs keep(abc female post femalepost femaleabc abcpost abcfemal
> epost cohort2009 age agesq) ///
> mtitle("literacy" "math" "literacy" "math") ///
> star(* 0.1 ** 0.05 *** 0.01) ///
> se ///
> scalars("r2 R-squared") ///
> replace
(output written to ../manuscript/Tables/ddd.tex)
```

```
.
.
. log close
  name: <unnamed>
  log: C:\Users\zxuyuan\Downloads\02. Datasets\Replication_v2.log
  log type: text
  closed on: 27 Mar 2024, 09:33:56
```
