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The impact of daycare attendance on Math test scores for a cohort of 4th graders in Brazil

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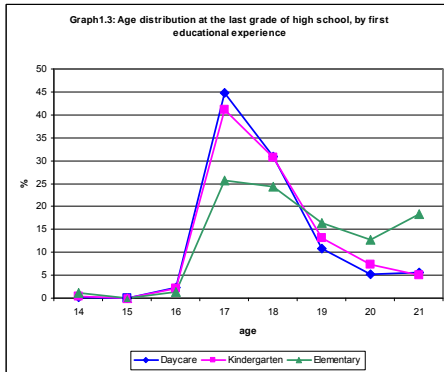
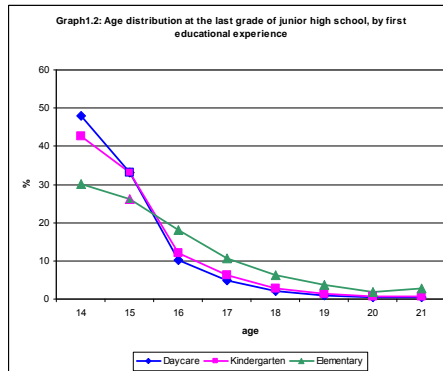
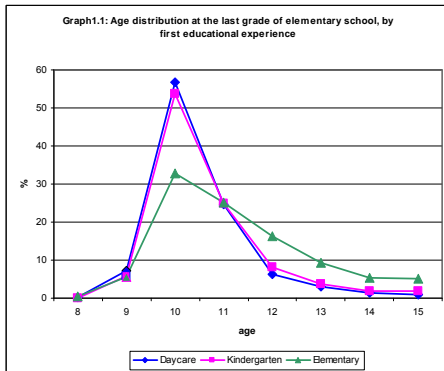


Table 7: Probit regressions: coefficients of attendance to daycare centers and kindergarten with an indicator of being in the 4th grade at the correct age as the dependent variable

Specification	Daycare only			Daycare			Kindergarten		
	dy/dx	Coefficient	St. Error	dy/dx	Coefficient	St. Error	dy/dx	Coefficient	St. Error
No controls	0,12	0,46	0,00	0,05	0,18	0,00	0,22	0,71	0,00
Individual Attributes	0,10	0,41	0,00	0,04	0,17	0,00	0,19	0,64	0,00
<i>Family</i>									
(I) + Family structure	0,05	0,22	0,00	0,00	0,01	0,00	0,15	0,58	0,00
(I) + Family structure II (II)	0,05	0,24	0,00	0,01	0,04	0,00	0,15	0,57	0,00
(II) + Region (III)	0,06	0,30	0,00	0,03	0,12	0,00	0,12	0,49	0,00
(III) + Family socioeconomic (IV)	0,05	0,26	0,00	0,02	0,09	0,00	0,11	0,47	0,00
<i>School Characteristics</i>									
(V) + Pedagogical Plan (VI)	0,05	0,26	0,00	0,02	0,09	0,00	0,11	0,47	0,00
(VI) + choice of principal (VII)	0,04	0,21	0,00	0,01	0,04	0,00	0,11	0,47	0,00
(VII) + Infrastructure (VIII)	0,03	0,23	0,00	0,01	0,11	0,00	0,05	0,37	0,00
(VIII) + Principal's Traits (IX)	0,03	0,24	0,00	0,01	0,09	0,00	0,06	0,44	0,00
(IX) + Teacher's Traits	0,02	0,15	0,00	-0,00*	-0,00*	0,00	0,07	0,48	0,00

Source: SAEB 2005. * Not significant at 10% (all the others are significant at 1%)

Individual attributes: Sex, Race

Family structure: mother living in the household, father living in the household, mother's education, father's education

Family structure II: same as above, replacing continuous parental education by dummy variables of educational level

Region: dummies for Northeast, Central, South and Southeast (omitted: North)

Family - socioeconomic: principal component index of parental attitudes towards learning and socioeconomic index of wealth

Pedagogical plan: existence of specific programs against dropouts and grade repetition, and extra classes for delayed students

Choice of principal: elected, nominated, promoted

Infrastructure: computers per student, computers w/ internet per student, class size

Principal's traits: education, experience as a director, tenure on the job, sex, race, age

Teacher's traits: education, experience as a teacher, experience in this class, sex, race, use of textbook, age

Table 8: Probability of entering school, 2005

VARIABLES	Probit regressions		Linear regressions	
	(1)	(2)	(1)	(2)
	Daycare	First grade or more	Daycare	First grade or more
Male	-0,0322 (0,0256)	0,0832*** (0,028)	-0,0105 (0,0201)	0,0173*** (0,007)
White	-0,0455* (0,0271)	0,009 (0,03)	-0,0142 (0,0214)	0,0051 (0,0074)
Age	0,489*** (0,16004)	0,013 (0,162)	0,1690* (0,0912)	-0,0373 (0,0444)
Age2	-0,023825*** (0,0071)	0,0066 (0,0069)	-0,0080** (0,0038)	0,0042*** (0,002)
Mother's education	0,0311*** (0,0038)	-0,0236*** (0,004)	0,0103*** (0,0026)	-0,0067*** (0,0011)
Father's education	0,032*** (0,0035)	-0,017*** (0,0038)	0,0105*** (0,0024)	-0,0047*** (0,001)
Socio-economic Index	1,51*** (0,1608)	-1,3353*** (0,1799)	0,4797*** (0,1227)	-0,3325*** (0,046)
Private School	0,6175*** (0,0388)	-0,3651*** (0,0471)	0,2353*** (0,0338)	-0,0648*** (0,0104)
Region	-0,1226*** (0,0115)	0,0315** (0,0127)	-0,0382*** (0,008)	0,008*** (0,0033)
Principal's age	0,0014 (0,002)	-0,0018 (0,0022)	0,0005 (0,0016)	-0,0003 (0,0006)
Principal's education	-0,0136 (0,0122)	-0,0166 (0,0129)	-0,0040 (0,009)	-0,005 (0,0037)
Principal's salary	-0,000001 (0,00002)	0,000001 (0,00002)	-0,000003 (0,00002)	0,00001 (0,00001)
Principal's experience	0,0074 (0,0051)	-0,0022 (0,0054)	0,0021 (0,0038)	-0,001 (0,0014)
Principal's tenure	0,0054** (0,0031)	-0,0098 (0,0035)	0,0018 (0,0025)	-0,0021*** (0,0008)
Computers per student	0,0037* (0,0017)	-0,0001** (0,0019)	0,0013 (0,0014)	0,0003 (0,0005)
Teacher's race	-0,0456*** (0,0278)	0,0052 (0,0299)	-0,0134 (0,0213)	0,0022 (0,0075)
Teacher's age	0,0096*** (0,0021)	0,0006 (0,0023)	0,003* (0,0016)	0,0001 (0,0006)
Teacher's education	0,0246 (0,0077)	-0,0045 (0,0083)	0,008 (0,0056)	-0,0013 (0,0022)
Teacher's salary	-0,00001 (0,00002)	-0,00002 (0,00003)	-0,00001 (0,00002)	-0,00001 (0,00001)
Teacher's experience	-0,0006 (0,0031)	-0,007** (0,0034)	-0,0003 (0,00002)	-0,0018*** (0,0009)

VARIABLES	Probit regressions		Linear regressions	
	(1)	(2)	(1)	(2)
	Daycare	First grade or more	Daycare	First grade or more
Number of students in the classroom	-0,0015 (0,0018)	0,0063*** (0,002)	-0,0006 (0,0015)	0,0014*** (0,0005)
Number of unused classrooms 1997	0,8569** (0,3771)		0,2618 (0,2614)	
Number of unused classrooms 1998	2,928*** (0,3907)	-0,2707 (0,4317)	0,8829*** (0,3007)	-0,1232 (0,1044)
Number of unused classrooms 1999		-0,8269 (0,6059)		-0,2159 (0,1552)
Number of unused classrooms 2000		0,194 (0,6456)		0,0288 (0,1714)
Number of unused classrooms 2001		-1,5645** (0,546)		-0,4223*** (0,1357)
Hospitalization by respiratory diseases_0a3_1995	0,0063*** (0,0017)		0,0018 (0,0012)	
Hospitalization by respiratory diseases_0a3_1996	-0,0033* (0,0017)		-0,001 (0,0011)	
Hospitalization by respiratory diseases_0a3_1997	0,0008 (0,0016)		0,0003 (0,0011)	
Hospitalization by respiratory diseases_0a3_1998	-0,00005 (0,0013)		-0,00002 (0,0001)	
Hospitalization by digestive diseases_0a3_1995	-0,0117*** (0,0024)		-0,0035** (0,0016)	
Hospitalization by digestive diseases_0a3_1996	0,0101*** (0,0026)		0,0028* (0,0016)	
Hospitalization by digestive diseases_0a3_1997	-0,0017 (0,0026)		-0,0004 (0,0015)	
Hospitalization by respiratory diseases_0a3_1998	-0,0031 (0,0019)		-0,001 (0,0012)	
Hospitalization by respiratory diseases_4a6_1998		0,0015 (0,0026)		0,0005 (0,0007)
Hospitalization by respiratory diseases_4a6_1999		-0,0043 (0,0034)		-0,0013 (0,0009)
Hospitalization by respiratory diseases_4a6_2000		-0,0031 (0,0035)		-0,0006 (0,0009)
Hospitalization by respiratory diseases_4a6_2001		0,004 (0,0033)		0,001 (0,0009)
Hospitalization by digestive diseases_4a6_1998		0,0042 (0,0034)		0,0014 (0,001)
Hospitalization by digestive diseases_4a6_1999		-0,0069 (0,0039)		-0,0019* (0,0011)
Hospitalization by digestive diseases_4a6_2000		0,003 (0,0046)		0,0008 (0,0013)
Hospitalization by digestive diseases_4a6_2001		0,0032 (0,0044)		0,0006 (0,0012)
Constant	-4,6615*** (0,9295)	-0,4915 (0,9697)	-1,1427 (0,5647)	0,4575* (0,2592)
Test of joint significance of the observables ¹	4,1200	1,006	0,7375	1,3595
P-value	0,0000	0,4452	0,6898	0,1775
Observations	11779	11779	11779	11779
Standard errors in parentheses				
*** p<0.01, ** p<0.05, * p<0.1				
¹ LR and F for the probit and linear regressions, respectively				

Table 9: Test Scores, 2005			
VARIABLES	OLS	CF	IV
Male	-13,177*** (0,735)	-13,093*** (0,715)	-12,454*** (1,779)
White	2,828*** (0,784)	2,699*** (0,761)	2,057 (1,86)
Age	-13,315*** (4,025)	-12,677*** (3,9)	-4,372 (9,425)
Age2	0,363** (0,173)	0,335** (0,168)	0,156 (0,411)
Mother's education	0,428*** (0,109)	0,436*** (0,106)	0,551* (0,32)
Father's education	0,404*** (0,101)	0,417*** (0,098)	0,732* (0,303)
Socio-economic Index	36,055*** (4,754)	36,151*** (4,573)	39,124*** (14,96)
Type of School	21,901*** (1,24)	21,922*** (1,185)	33,048*** (5,253)
Region	1,087*** (0,293)	1,048*** (0,285)	-0,66 (0,855)
Principal's age	0,048 (0,058)	0,053 (0,056)	0,048 (0,137)
Principal's education	0,363 (0,339)	0,359 (0,335)	-0,339 (0,835)
Principal's salary	0,005*** (0,001)	0,005*** (0,001)	0,005 (0,001)
Principal's experience	0,175 (0,147)	0,181 (0,142)	0,229 (0,33)
Principal's tenure	0,105 (0,09)	0,096 (0,087)	0,107 (0,224)
Computers per student	0,292*** (0,05)	0,291*** (0,048)	0,413 (0,121)
Teacher's race	1,734** (0,776)	1,648** (0,75)	0,725 (1,853)
Teacher's age	0,012 (0,05)	0,021 (0,059)	0,233 (0,153)
Teacher's education	0,222 (0,22)	0,243 (0,214)	0,664 (0,521)
Teacher's salary	0,002*** (0,001)	0,002*** (0,001)	0,002*** (0,0017)
Teacher's experience	0,244*** (0,089)	0,235*** (0,087)	0,056 (0,213)
Number of students in the classroom	-0,157*** (0,052)	-0,144*** (0,05)	-0,072*** (0,129)
Daycare	14,24*** (1,514)	12,793*** (1,1731)	68,412*** (19,122)
Kintergarten	12,893*** (1,68)	11,106*** (1,212)	-100,1*** (26,084)
Control Function		-3,074*** (1,164)	
Constant	210,35*** (24,151)	209,45*** (23,278)	180,39*** 58,163
Observations	11779	11779	11779
R-squared	0.352	0.366	0.356
Test: Daycare=Preschool			
F-statistics	0,0767	6,8810	0,8541
P-value	0,7818	0,0089	0,3554
Robust standard errors in parentheses			
*** p<0.01, ** p<0.05, * p<0.1			

VARIABLES	(1) Daycare	(2) Daycare	(3) Daycare	(4) Daycare	(5) Kindergarten	(6) Kindergarten
Male	0.0382	0.0366	0.0431	-0.00195	0.0412	-0.00429
White	0.00355	0.00406	0.00339	0.00155	0.00398	0.00229
Age	-0.0317**	-0.0327**	-0.0296**	-0.0160	-0.0310**	-0.0176
Mother's education	0.0125***	0.0127***	0.0125***	-0.00154	0.0127***	-0.00130
Father's education	0.0128***	0.0130***	0.0129***	-0.00631*	0.0131***	-0.00606*
Grade repetition	0.0112	0.0124	0.0139	-0.0264	0.0152	-0.0248
Socio-Economic Index	0.0170	0.0185	0.0187	-0.0471***	0.0205	-0.0449***
Principal's age	-0.000743	-0.000708	-0.000763	0.00115	-0.000723	0.00120
Principal's education	0.00722	0.00712	0.00807	0.00761	0.00793	0.00744
Principal's salary	-6.38e-06	-6.00e-06	-4.90e-06	5.08e-07	-4.45e-06	1.07e-06
Principal's experience	0.00410*	0.00408*	0.00375*	-0.00592***	0.00373*	-0.00594***
Principal's tenure	-0.000274	-0.000244	-0.000194	0.000456	-0.000158	0.000500
computer per student	-0.000991	-0.000959	-0.000940	0.00177*	-0.000903	0.00181**
Teacher's race	-0.00202	-0.00122	-0.000205	0.00844	0.000738	0.00961
Teacher's age	-7.99e-05	-0.000101	-5.29e-05	0.000438	-7.79e-05	0.000407
Teacher's education	0.00460	0.00444	0.00410	0.000981	0.00391	0.000744
Teacher's salary	1.01e-05	1.01e-05	8.62e-06	5.11e-08	8.56e-06	-2.50e-08
Teacher's experience	0.000394	0.000440	0.000410	-0.000433	0.000469	-0.000360
Number of students in the classroom	0.000614	0.000603	0.000557	8.17e-05	0.000542	6.40e-05
Teacher assigns homework	-0.0553	-0.0391	-0.0711	-0.0484	-0.0509	-0.0234
Parental attitude towards children's learning	0.0238		0.0295	0.0365		
Number of unused classrooms (99-97)	-0.138	-0.143	-0.245	0.0467	-0.251	0.0400
Number of unused classrooms (98-00)	0.110	0.116	0.138	-0.259	0.147	-0.248
Number of unused classrooms (01-99)			-0.109	-0.0139	-0.110	-0.0143
Number of unused classrooms (02-00)			0.117	-0.167	0.120	-0.164
Number of unused classrooms (03-01)			-0.178	-0.0761	-0.183	-0.0820
Hospitalization by respiratory diseases_0a3_9795	0.000940	0.000956	0.00101	-0.000866	0.00103	-0.000850
Hospitalization by respiratory diseases_0a3_9896	-0.000103	-0.000101	0.000274	-0.000752	0.000280	-0.000745
Hospitalization by respiratory diseases_0a3_9997	0.000514	0.000509	0.000582	-0.000382	0.000556	-0.000414
Hospitalization by respiratory diseases_0a3_0098	0.000917	0.000904	0.000845	-0.00101	0.000832	-0.00103
Hospitalization by digestive diseases_0a3_9795	-0.00142	-0.00145	-0.00201**	0.00195**	-0.00204**	0.00192**
Hospitalization by digestive diseases_0a3_9896	-0.000135	-0.000122	0.000440	0.00107	0.000454	0.00109
Hospitalization by digestive diseases_0a3_9997	-0.00148*	-0.00149*	-0.00274***	0.00131	-0.00272***	0.00132
Hospitalization by digestive diseases_0a3_0098	4.14e-05	5.88e-05	0.000701	-4.53e-05	0.000702	-4.36e-05
Hospitalization by respiratory diseases_4a6_0098			0.000512	-0.000976	0.000544	-0.000937
Hospitalization by respiratory diseases_4a6_0199			0.000524	0.00124	0.000441	0.00113
Hospitalization by respiratory diseases_4a6_0200			-0.00104	-0.000876	-0.00102	-0.000852
Hospitalization by respiratory diseases_4a6_0301			0.00244*	-0.00135	0.00241*	-0.00138
Hospitalization by digestive diseases_4a6_0098			0.000967	-0.00154	0.000990	-0.00151
Hospitalization by digestive diseases_4a6_0199			0.00576***	0.00506***	-0.00567***	0.00518***
Hospitalization by digestive diseases_4a6_0200			0.00277	-0.00151	0.00273	-0.00155
Hospitalization by digestive diseases_4a6_0301			-0.00275**	0.00318**	-0.00269**	0.00324**
Constant	0.0478***	0.0482***	0.0430***	-0.134***	0.0435***	-0.133***
Observations	832	832	832	832	832	832
R-squared	0.099	0.098	0.115	0.068	0.114	0.067
F-test						
F-statistics	2.83	2.91	2.44	1.37	2.49	1.38
p-value	0.000	0.000	0.000	0.061	0.000	0.058
*** p<0.01, ** p<0.05, * p<0.1						

Table 11: Test Scores, 2005-1007

VARIABLES	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Male	-9.275** (3.785)	-10.23*** (3.813)	-10.88*** (4.061)	-11.93*** (4.076)	-9.789*** (3.762)	-10.73*** (3.786)	-10.92*** (4.078)	-11.88*** (4.077)
White	1.876 (3.159)	2.180 (3.188)	2.623 (3.265)	2.837 (3.295)	1.887 (3.137)	2.177 (3.163)	2.579 (3.246)	2.786 (3.275)
Age	-0.120 (1.098)	-0.628 (1.101)	-0.0199 (1.432)	-0.466 (1.456)	0.290 (1.097)	-0.167 (1.100)	0.0785 (1.573)	-0.391 (1.631)
Mother's education	-0.378 (0.331)	-0.301 (0.333)	-0.486 (0.477)	-0.445 (0.483)	-0.466 (0.329)	-0.399 (0.332)	-0.436 (0.453)	-0.372 (0.464)
Father's education	0.301 (0.290)	0.372 (0.292)	0.265 (0.454)	0.315 (0.460)	0.270 (0.288)	0.336 (0.290)	0.380 (0.384)	0.459 (0.393)
Grade repetition	-27.57*** (3.754)	-26.88*** (3.785)	-28.33*** (3.932)	-27.69*** (3.967)	-27.25*** (3.729)	-26.58*** (3.757)	-28.04*** (3.906)	-27.37*** (3.933)
Socio-Economic Index	-2.303* (1.261)	-1.498 (1.257)	-2.163 (1.427)	-1.412 (1.443)	-1.875 (1.258)	-1.085 (1.253)	-1.445 (1.533)	-0.620 (1.498)
Principal's age	0.0325 (0.0779)	0.0486 (0.0785)	0.0205 (0.0833)	0.0398 (0.0837)	0.0269 (0.0774)	0.0419 (0.0779)	0.00353 (0.0812)	0.0193 (0.0826)
Principal's education	-0.0462 (0.437)	-0.116 (0.440)	-0.271 (0.500)	-0.347 (0.503)	-0.213 (0.436)	-0.289 (0.439)	-0.363 (0.574)	-0.435 (0.576)
Principal's salary	0.00158* (0.000868)	0.00177** (0.000875)	0.00157* (0.000905)	0.00176** (0.000910)	0.00163* (0.000863)	0.00181** (0.000869)	0.00154* (0.000895)	0.00171** (0.000898)
Principal's experience	0.0666 (0.181)	0.0518 (0.183)	0.0894 (0.220)	0.0742 (0.222)	0.104 (0.180)	0.0918 (0.182)	0.187 (0.209)	0.189 (0.211)
Principal's tenure	-0.109 (0.130)	-0.0972 (0.131)	-0.144 (0.133)	-0.129 (0.135)	-0.114 (0.129)	-0.103 (0.130)	-0.151 (0.132)	-0.137 (0.134)
computer per student	0.0980 (0.0766)	0.113 (0.0772)	0.0840 (0.0831)	0.102 (0.0835)	0.0820 (0.0762)	0.0957 (0.0767)	0.0579 (0.0828)	0.0710 (0.0837)
Teacher's race	2.600* (1.381)	3.115** (1.388)	3.226** (1.426)	3.708*** (1.432)	2.469* (1.372)	2.950** (1.378)	3.045** (1.435)	3.488** (1.451)
Teacher's age	-0.0205 (0.0693)	-0.0301 (0.0699)	-0.0550 (0.0721)	-0.0647 (0.0727)	-0.0232 (0.0688)	-0.0325 (0.0694)	-0.0541 (0.0716)	-0.0631 (0.0721)
Teacher's education	0.00909 (0.289)	-0.0608 (0.291)	0.0797 (0.320)	-0.00598 (0.321)	-0.0334 (0.288)	-0.102 (0.289)	0.0789 (0.323)	0.00259 (0.322)
Teacher's salary	0.000999 (0.00107)	0.000902 (0.00108)	0.00110 (0.00114)	0.00101 (0.00115)	0.000945 (0.00107)	0.000850 (0.00108)	0.00112 (0.00113)	0.00106 (0.00114)
Teacher's experience	0.0444 (0.0923)	0.0705 (0.0929)	0.0390 (0.0949)	0.0616 (0.0958)	0.0453 (0.0917)	0.0701 (0.0922)	0.0440 (0.0940)	0.0668 (0.0947)
Number of students in the classroom	-0.0367 (0.0640)	-0.0432 (0.0646)	-0.0302 (0.0683)	-0.0379 (0.0688)	-0.0447 (0.0636)	-0.0514 (0.0641)	-0.0296 (0.0682)	-0.0358 (0.0686)
Teacher assigns homework	12.07*** (4.179)	20.35*** (3.689)	12.01*** (4.662)	20.18*** (4.023)	13.04*** (4.159)	20.95*** (3.665)	12.36** (4.954)	20.17*** (4.090)
Parental attitude towards children's learning	12.47*** (3.053)		12.24*** (3.231)		11.87*** (3.036)		11.81*** (3.452)	
Enter school at daycare	2.275 (2.886)	2.769 (2.910)	8.885 (27.43)	11.56 (27.54)	10.63*** (3.709)	11.61*** (3.732)	5.982 (26.28)	6.716 (23.71)
Enter school at preschool					13.03*** (3.671)	13.83*** (3.696)	13.85 (23.41)	15.21 (23.71)
residual daycare (CF)			-7.535 (26.67)	-9.934 (26.79)			3.753 (25.69)	3.899 (26.10)
residual kindergarten (CF)							-0.756 (22.94)	-1.190 (23.24)
Constant	18.01*** (1.022)	18.25*** (1.030)	17.26*** (1.798)	17.37*** (1.820)	19.45*** (1.092)	19.76*** (1.099)	19.41*** (2.704)	19.81*** (2.708)
R-squared	0.150	0.133	0.164	0.146	0.163	0.147	0.177	0.161
Observations	861	861	832	832	861	861	832	832
Test: Daycare=Preschool								
F-statistics					0.58	0.49	0.21	0.24
P-value					0.4464	0.4853	0.6483	0.6259

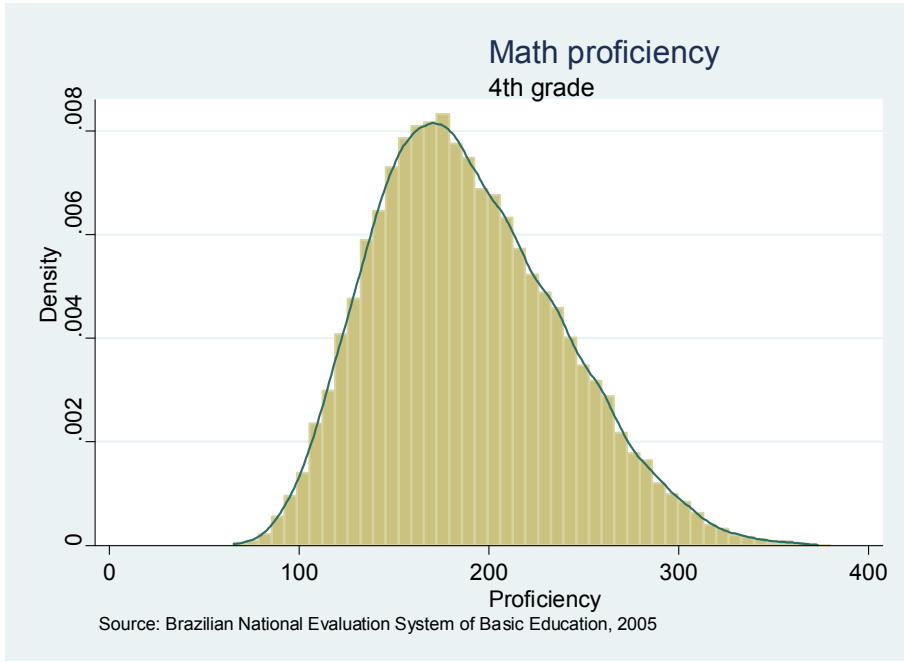
Robust standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1

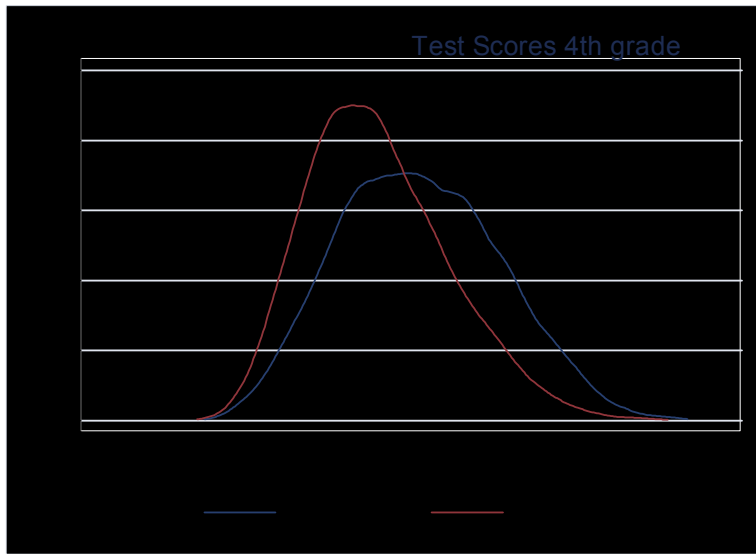
Table A1: Descriptive Analysis

Variables	N	Mean/Proportion	SD	Min.	Max.
Proficiency	41.783	188,9	48,94	65,43	373,44
Student's Characteristics					
Attended Daycare	41.783	0,38	0,48	0	1
Kindergarten	41.783	0,76	0,42	0	1
Male	40.964	0,50	0,50	0	1
White	39.751	0,37	0,48	0	1
Age	41.170	10,66	1,20	8	15
Age*2	41.170	115,14	27,87	64	225
Mother's schooling	27.386	8,80	4,93	0	15
Father's schooling	23.730	8,91	5,15	0	15
Parents participate in school's meetings	41.783	0,88	0,31	0	1
Has repeted a grade	41.783	0,26	0,44	0	1
Socio-economic Level	39.919	0,02	0,11	-0,30	0,25
School's characteristics					
Principal's age	40.706	43,92	7,81	24	55
Principal's Education	40.194	15,29	1,33	8	17
Principal's salary	38.341	1.748,00	842,55	300,00	3.100,00
Principal's Experience	40.720	13,47	3,01	1	15
Principal's Experience as principal	40.309	6,23	5,05	1	15
How the principal is selected					
Election	39.854	0,20	0,40	0	1
Selected by professional outside	39.854	0,14	0,35	0	1
Selected by politicians	39.854	0,12	0,32	0	1
Selected by experts in educations	39.854	0,10	0,29	0	1
Selected by the community	39.854	0,10	0,29	0	1
Selected and elected	39.854	0,13	0,33	0	1
Others	39.854	0,21	0,40	0	1
Public school	41.783	0,70	0,45	0	1
Region					
Middle-West	41.783	0,14	0,34	0	1
North	41.783	0,20	0,40	0	1
Northeast	41.783	0,36	0,47	0	1
South	41.783	0,14	0,34	0	1
Southeast	41.783	0,16	0,36	0	1
Computers in school	35.698	10,94	9,91	3	30
Classroom's characteristics					
Teacher's race (white)	37.878	0,45	0,49	0	1
Teacher's age	38.079	39,08	8,86	24	55
Teacher's salary	36.953	1.022,61	626,2692	300	3.100,00
Teacher's experience	37.759	13,24	6,11	0,5	20
Students have book	41.783	0,62	0,48	0	1
Number the students in the classroom	41.504	29,72	8,02	2	67

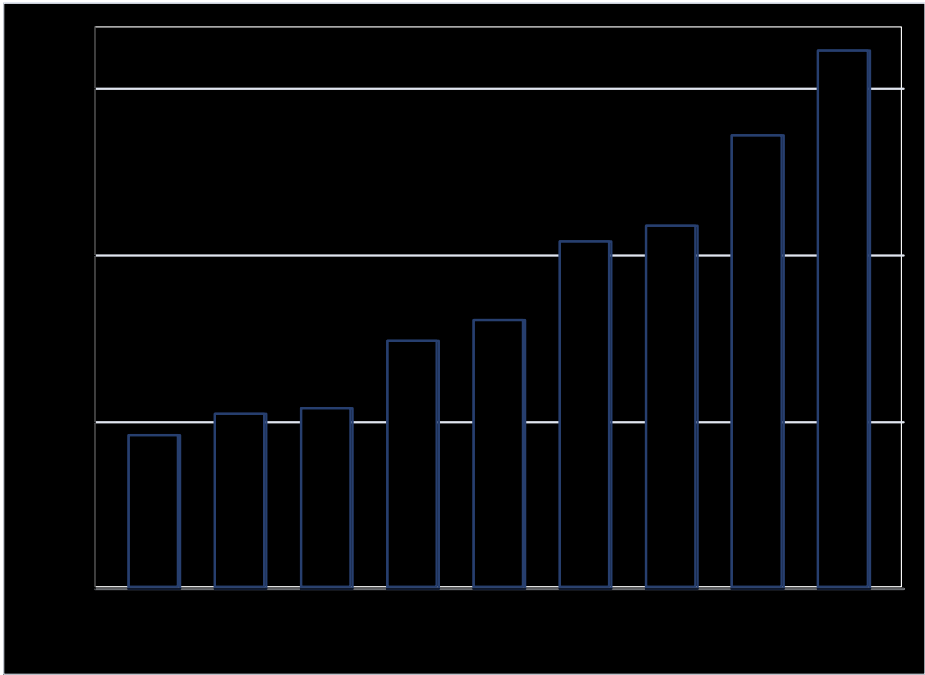
Source: Brazilian National Evaluation System of Basic Education (SAEB), 2005



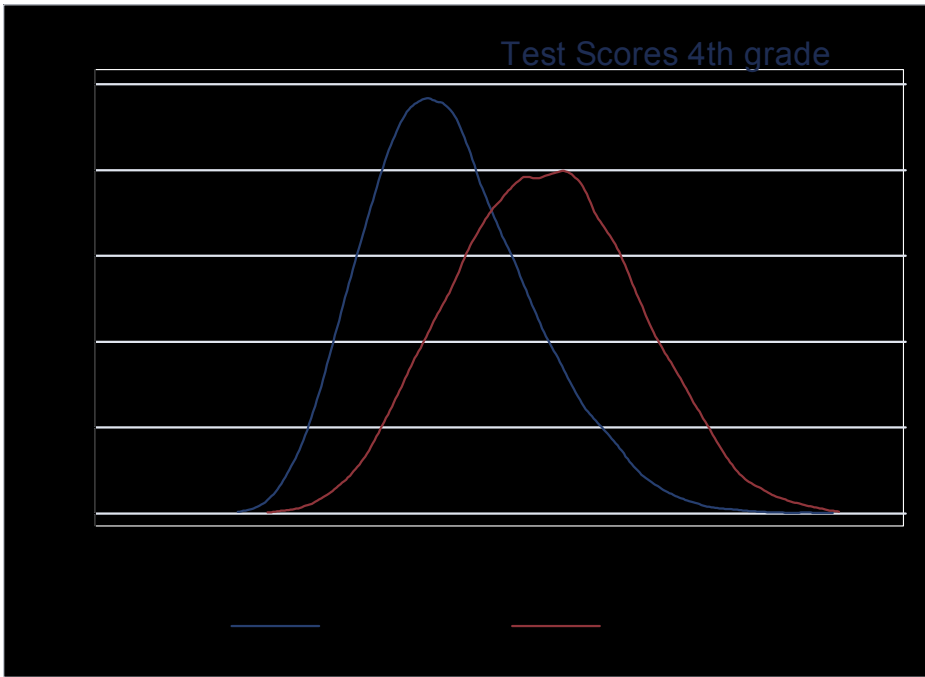
Graph A1



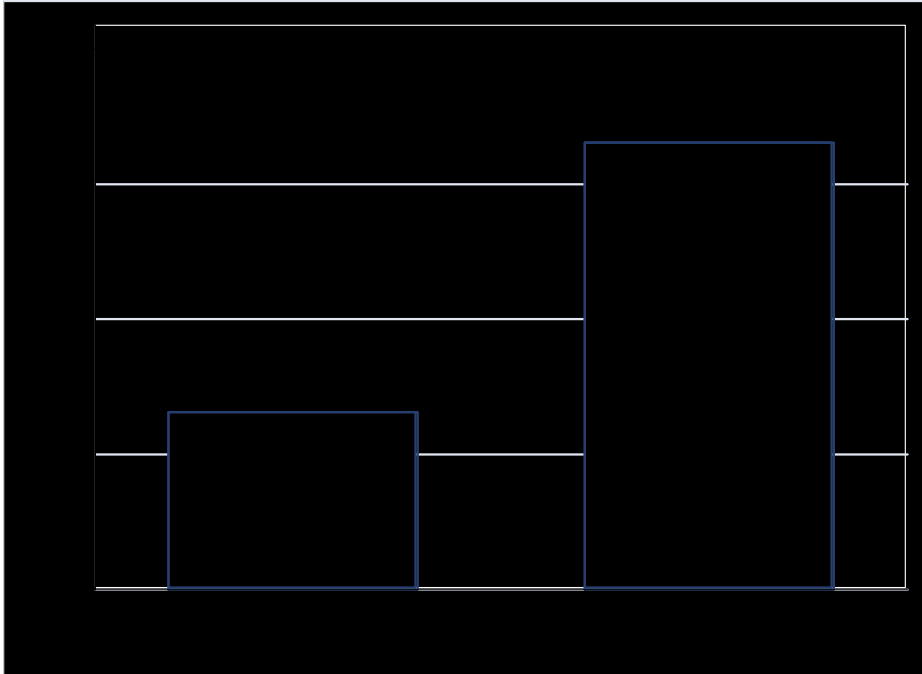
Graph A2



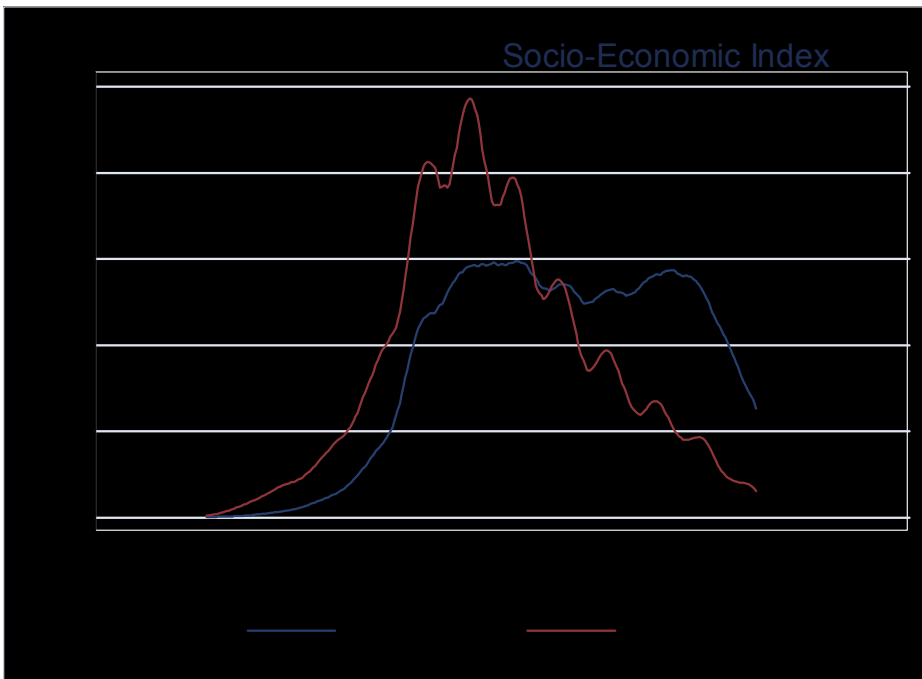
Graph A3



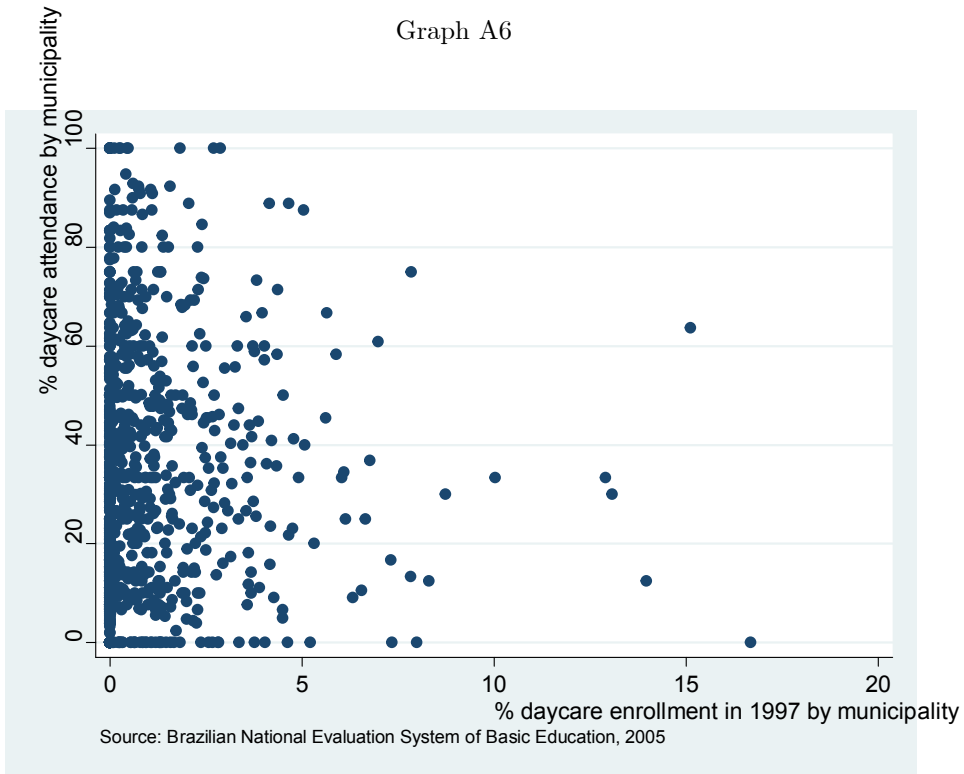
Graph A4



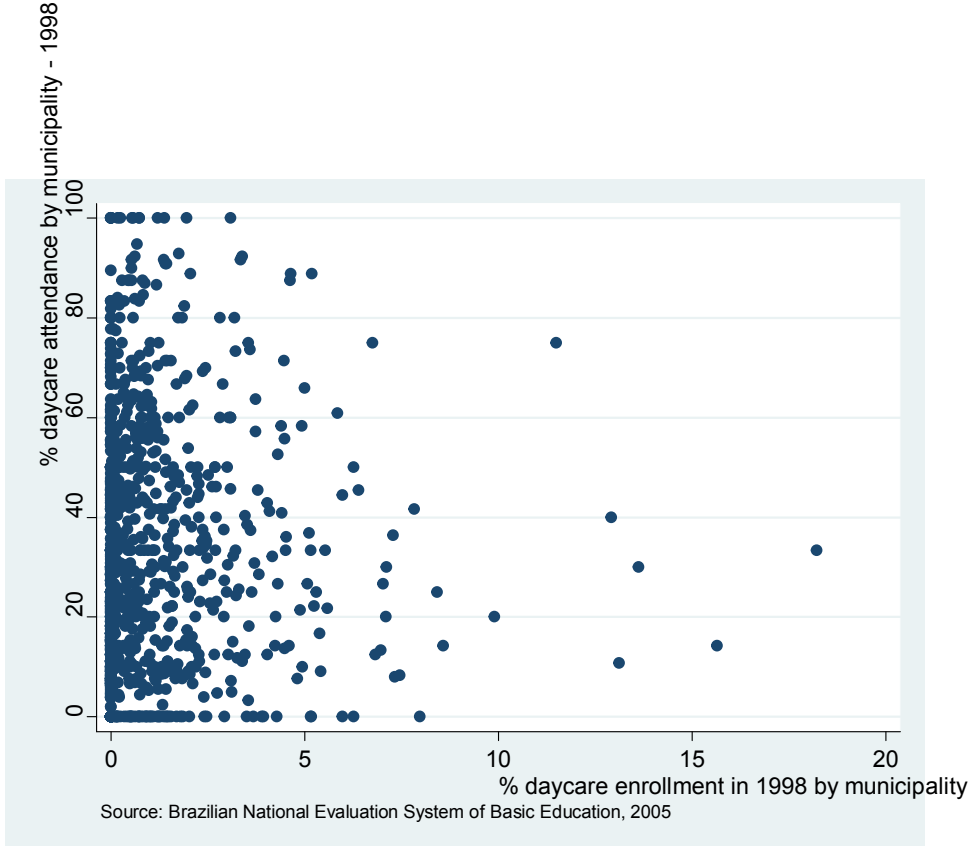
Graph A5



Graph A6



Graph A7



Graph A8

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