

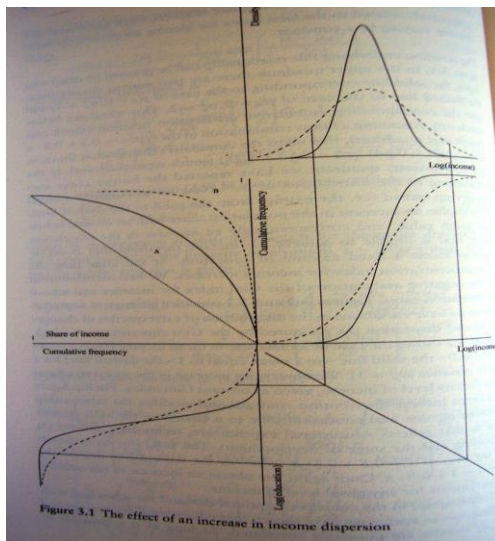
Economia da Educação

Apresentação 2 - março de 2015

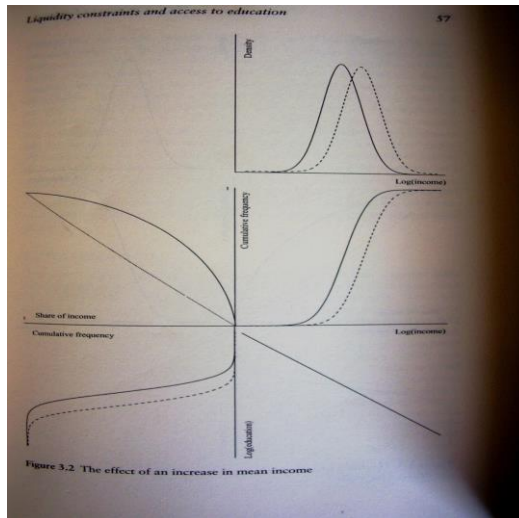


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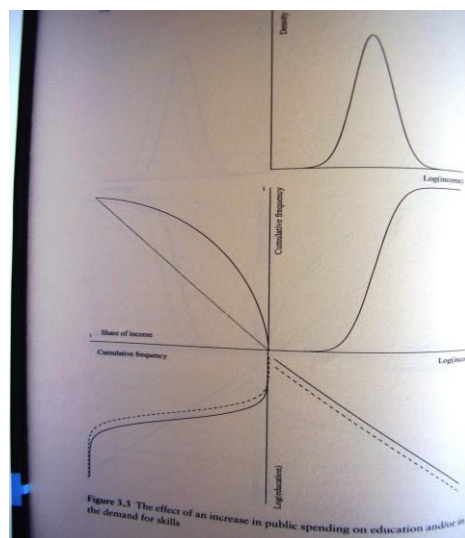
Restrições de liquidez e acesso à educação



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Table 3.1 Descriptive statistics for the entire data set, 1960–1995

	Mean entire sample	Standard deviation	Restricted sample	Standard deviation	Mean year = 1960	Mean year = 1970	Mean year = 1980	Mean year = 1990
Gross enrolment rate in primary education	0.839 (812)	0.251	0.899 (470)	0.189	0.731 (101)	0.790 (103)	0.879 (102)	0.885 (101)
Gross enrolment rate in secondary education	0.424 (801)	0.313	0.482 (470)	0.290	0.226 (98)	0.342 (103)	0.467 (100)	0.547 (96)
Gross enrolment rate in higher education	0.114 (797)	0.136	0.134 (470)	0.135	0.036 (99)	0.070 (101)	0.120 (101)	0.181 (89)
Gini index of income distribution	0.414 (526)	0.105	0.422 (470)	0.101	0.456 (55)	0.428 (75)	0.396 (70)	0.402 (83)
Total population (thousands)	36,040 (831)	117,146	46,629 (470)	128,627	24,970 (102)	30,879 (102)	37,399 (102)	44,075 (107)
Total GDP per capita (\$PPP, 1985 international prices)	3,916.4 (824)	4,003.0	4,524.9 (470)	4,061.0	2,453.8 (98)	3,336.7 (104)	4,417.1 (105)	5,115.2 (107)

NB: numbers in brackets report the number of non-missing observations in each sample (or sub-sample).

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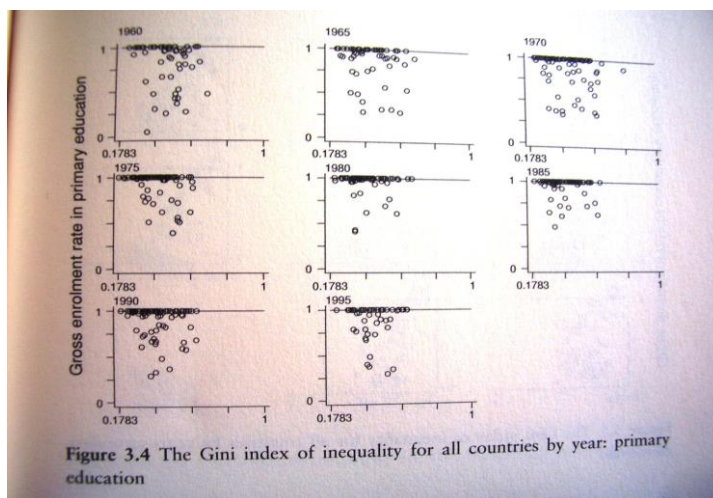
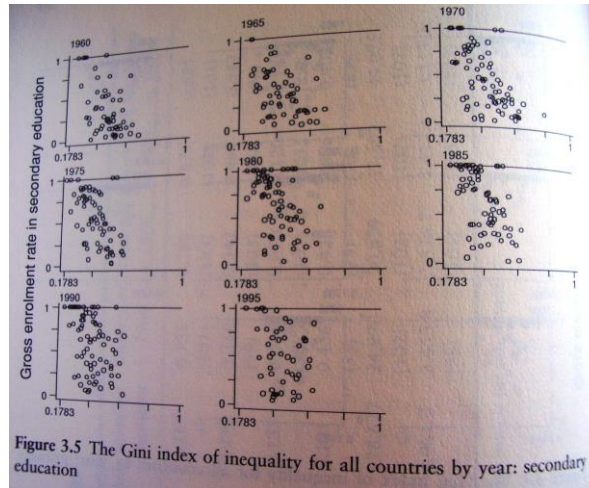
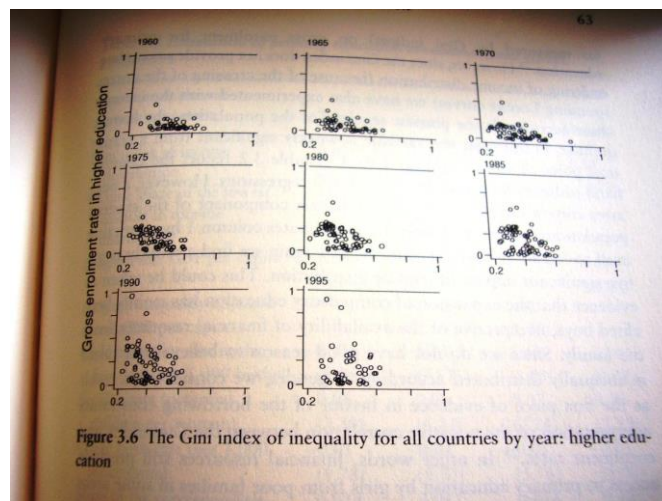


Figure 3.4 The Gini index of inequality for all countries by year: primary education

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Table 3.2 Estimation of primary education enrolment: fixed effects, 1960–1995

Gross enrolment rate in primary education	Total	Total	Total	Female
Gini index of income distribution	0.02 (0.33)	-0.20 (1.34)	—	-0.11 (1.35)
Income share of the lowest quintile in income distribution	—	-0.57 (1.06)	—	—
(Log of) real GDP per capita	0.04 (2.20)	0.05 (3.08)	—	0.04 (2.05)
(Log of) inequality-adjusted real GDP per capita	—	—	0.03 (1.86)	—
Child mortality rate in the first year (per 1,000 births)	-2.48 (8.05)	-2.13 (7.57)	-2.49 (8.09)	-3.14 (8.98)
Fertility rate (potential children per woman)	0.08 (7.30)	0.06 (6.21)	0.07 (7.24)	0.08 (7.29)
Crude birth rate (per 1,000 inhabitants)	-0.01 (5.78)	-0.01 (5.75)	-0.01 (5.76)	-0.01 (5.00)
Share of the corresponding population over 15 with some primary education	0.014 (0.29)	0.011 (0.24)	0.016 (0.32)	0.12 (2.14)
Student per teacher in primary education	0.002 (2.57)	0.003 (3.46)	0.002 (2.50)	0.001 (1.80)
Constant	0.59 (3.31)	0.60 (3.16)	0.71 (4.65)	0.55 (2.70)
Number of observations/number of countries	436/92	303/84	436/92	424/92
Correlation between random component and individual explanatory variables	0.09	0.03	0.10	0.15
R ² overall	0.54	0.50	0.52	0.62
R ² within	0.43	0.51	0.43	0.46
F-test	36.34 (0.00)	28.10 (0.00)	42.11 (0.00)	40.69 (0.00)

NB: T-statistics in brackets.

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Table 3.3 Estimation of secondary education enrolment: fixed effects, 1960–1995

Gross enrolment rate in secondary education	Total	Total	Total	Female
Gini index of income distribution	-0.24 (2.68)	0.01 (0.06)	—	-0.35 (3.73)
Income share of the lowest quintile in income distribution	—	0.69 (0.88)	—	—
(Log of) GDP per capita	0.14 (6.37)	0.15 (6.03)	—	0.15 (6.37)
(Log of) inequality-adjusted real GDP per capita	—	—	0.13 (7.17)	—
Fertility rate (potential children per woman)	-0.05 (5.33)	-0.06 (5.62)	-0.05 (5.34)	-0.06 (6.03)
Average years of completed primary education in the corresponding population over 15	0.06 (6.15)	0.04 (3.42)	0.06 (6.10)	0.06 (5.20)
Ratio of physical capital stock to GDP (1987 local prices)	0.04 (3.26)	0.05 (3.40)	0.04 (3.56)	0.05 (3.81)
Constant	-0.67 (3.31)	-0.82 (3.05)	-0.67 (3.93)	-0.65 (3.07)
Number of observations/number of countries	386/76	264/69	386/76	369/76
Correlation between random component and individual explanatory variables	-0.65	-0.58	-0.64	-0.73
R ² overall	0.79	0.76	0.79	0.82
R ² within	0.65	0.68	0.65	0.69
F-test	115.1 (0.00)	67.27 (0.00)	143.3 (0.00)	127.7 (0.00)

NB: T-statistics in brackets.

It is interesting...

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Table 3.4 Estimation of secondary education enrolment using different variables for educational resources: fixed effects, 1960–1995

	Total	Total	Total	Female	Female	Female
Gross enrolment rate in secondary education						
Gini index of income distribution	-0.38 (2.71)	-0.33 (2.18)	-2.11 (4.68)	-0.40 (2.66)	-0.35 (2.20)	-2.44 (5.17)
(Log of) GDP per capita	0.20 (5.44)	0.20 (5.00)	0.15 (4.13)	0.21 (5.13)	0.19 (4.44)	0.14 (3.37)
Fertility rate (potential children per woman)	-0.03 (2.27)	-0.03 (1.82)	-0.03 (1.87)	-0.03 (1.92)	-0.03 (1.65)	-0.03 (1.79)
Average years of completed primary education in the corresponding population over 15	0.07 (3.25)	0.07 (2.85)	0.10 (4.04)	0.09 (3.47)	0.09 (3.13)	0.13 (4.63)
Ratio of physical capital stock to GDP (1987 local prices)	0.04 (1.74)	0.04 (1.74)	0.04 (1.78)	0.04 (1.89)	0.04 (1.69)	0.03 (1.58)
Student per teacher in secondary education	-	0.001 (0.40)	0.002 (1.02)	-	0.0001 (0.03)	0.001 (0.73)
Repetition rate – secondary education	-	0.001 (0.68)	0.02 (1.42)	-	0.001 (0.75)	0.003 (1.59)
Per pupil government expenditure on secondary education/GDP per capita	-	-0.001 (1.19)	-0.001 (1.25)	-	-0.0007 (0.70)	-0.001 (0.77)
Government expenditure on education/GDP	-	-0.08 (0.09)	-10.70 (3.80)	-	0.28 (0.29)	-11.19 (3.80)
(Government expenditure on education/GDP) × Gini index	-	-	28.86 (4.00)	-	-	31.9 (4.22)
Capital expenditure/total government expenditure on education	-	-0.23 (1.64)	-1.11 (2.28)	-	-0.30 (2.02)	-1.79 (3.48)

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Table 3.4 (cont.)

(Capital expenditure/total government expenditure on education) × Gini index	-	-	2.33 (1.99)	-	-	3.89 (3.13)
Constant	Yes	Yes	Yes	Yes	Yes	Yes
Number of observations/number of countries	133/50	133/50	133/50	130/49	130/49	130/49
Correlation between random component and individual explanatory variables	-0.75	-0.71	-0.71	-0.82	-0.80	-0.80
R ² overall	0.77	0.77	0.78	0.83	0.82	0.82
R ² within	0.76	0.77	0.82	0.77	0.79	0.84
F-test	49.0 (0.00)	25.1 (0.00)	26.7 (0.00)	52.9 (0.00)	27.2 (0.00)	31.1 (0.00)

NB: T-statistics in brackets.

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Table 3.5 Elasticities of higher education enrolment: fixed effects, 1990-2005

Gross enrolment rate in higher education	Total	Total	Total	Female	Male
Gini index of income distribution	-0.07 (0.92)	0.14 (0.68)	-	-0.07 (1.05)	-0.13 (2.10)
Income share of the lowest quintile in income distribution	-	0.61 (0.83)	-	-	-
(Log of) real GDP per capita	0.08 (3.91)	0.14 (4.11)	-	0.04 (2.24)	0.08 (4.07)
(Log of) inequality-adjusted real GDP per capita	-	-	0.07 (3.97)	-	-
(Log of) government current expenditure in secondary education per pupil (PPP-adjusted 1985 international prices)	0.02 (2.13)	0.02 (1.51)	0.02 (2.52)	0.03 (2.87)	0.01 (0.77)
Average years of completed secondary education in the corresponding population over 15	0.07 (5.88)	0.04 (2.74)	0.07 (5.97)	0.08 (7.22)	0.05 (4.88)
Ratio of physical capital stock to GDP (1987 local prices)	0.01 (1.06)	0.02 (1.01)	0.01 (1.45)	0.01 (0.71)	0.02 (2.57)
Constant	-0.76 (5.08)	-1.39 (4.94)	-0.67 (5.83)	-0.51 (3.76)	-0.60 (4.51)
Number of observations/ number of countries	303/72	210/65	303/72	254/70	253/69
Correlation between random component and individual explanatory variables	-0.59	-0.68	-0.55	-0.59	-0.39
R ² overall	0.63	0.57	0.63	0.59	0.60
R ² within	0.57	0.57	0.57	0.60	0.61
F-test	60.22 (0.00)	31.47 (0.00)	74.9 (0.00)	54.63 (0.00)	55.51 (0.00)

Note: T-statistics in brackets.

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Table 3.6 Elasticities of enrolment at different educational levels

	Primary	Secondary	Higher
Gini index of income distribution (column 1 in tables 3.2, 3.3 and 3.5)	-0.011	-0.211 ^b	-0.185
(Log of) inequality-adjusted real GDP per capita (column 3 in tables 3.2, 3.3 and 3.5)	0.033 ^a	0.281 ^b	0.529 ^b
Average years of completed education at previous stage (column 1 in tables 3.2, 3.3 and 3.5)	0.006 ^b	0.520 ^b	0.622 ^b
Ratio of physical capital stock to GDP (column 1 in tables 3.2, 3.3 and 3.5)	-	0.215 ^b	0.194
Female only			
Gini index of income distribution (column 4 in tables 3.2, 3.3 and 3.5)	-0.054	-0.311 ^b	-0.260
Average years of completed education at previous stage (column 4 in tables 3.2, 3.3 and 3.5)	0.060 ^a	0.467 ^b	0.907 ^b

^a Statistically significant at 95 per cent.
^b Statistically significant at 99 per cent.