

Effekten af sommerskole

Dit Navn

Fiktivt datasæt

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Outline

1 Introduktion

2 Data og design

3 Results

Intro

- Denne præsentation viser resultater af opgaver baseret på Sievertsens data og øvelser ([link](#)).

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Den empiriske case

- Nogle elever blev tilfældigt udtrukket til at modtage en invitation til at deltage i sommerskole (indikeret med variablen Letter)
- Variablen Summer school indikerer de elever, som deltog på sommerskole

Balancetabel

Table: Balancetabel

Variable	(1) No letter	(2) Letter	(3) Difference (2)-(1)
female	0.514 (0.500)	0.521 (0.500)	0.007 (0.707)
parental_schooling	11.329 (1.145)	11.312 (0.972)	-0.017 (0.698)
parental_lincome	14.563 (0.703)	14.563 (0.663)	0.001 (0.980)
test_score	0.006 (1.000)	-0.020 (1.000)	-0.026 (0.507)
Observations	2,629	862	3,491

Kilde: Data fra Sievertsen øvelse

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Compare means

Table: Compare means, treatment

Variable	(1) No letter	(2) Letter	(3) Difference (2)-(1)
test_score	-0.051 (1.000)	0.155 (0.984)	0.206*** (0.000)
Observations	2,629	862	3,491

Kilde: Data fra Sievertsen øvelse

Regression med kontrolvariable

Table: Sammenhæng mellem test score og summer school

	(1) test_score	(2) test_score	(3) test_score
summercamp	0.918*** (0.0101)	0.547*** (0.00843)	
female		-0.00527 (0.00795)	
parental_schooling		-0.0517*** (0.00606)	
parental_income		0.894*** (0.00977)	
summercamp_res			0.547*** (0.0116)
_cons	-0.426*** (0.00685)	-12.68*** (0.0972)	-0.000170 (0.00546)
N	31408	31363	31363
adj. R ²	0.210	0.506	0.066

Standard errors in parentheses

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Kilde: Data fra Sievertsen øvelse

Regression af randomiseret treatment (letter)

Table: Effekt af letter på test score

	(1) test_score	(2) test_score
letter	0.136*** (0.0131)	0.135*** (0.00977)
female		0.000628 (0.00844)
parental_schooling		-0.0326*** (0.00643)
parental_lincome		0.997*** (0.0102)
_cons	-0.0335*** (0.00649)	-14.19*** (0.100)
<i>N</i>	31408	31363
adj. <i>R</i> ²	0.003	0.443

Standard errors in parentheses

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Kilde: Data fra Sievertsen øvelse

Instrumental Variable

Table: Reduced form og IV-model

	(1) Reduced form	(2) First stage (Summer school)	(3) IV
letter	0.135*** (0.0167)	0.444*** (0.0137)	
female	0.000628 (0.0169)	0.00976 (0.0110)	-0.00233 (0.0160)
parental_schooling	-0.0326 (0.0174)	0.0364** (0.0118)	-0.0437** (0.0151)
parental_lincome	0.997*** (0.0254)	0.187*** (0.0227)	0.941*** (0.0227)
summercamp			0.303*** (0.0356)
_cons	-14.19*** (0.231)	-2.784*** (0.237)	-13.34*** (0.221)
<i>N</i>	31363	31363	31363
adj. R^2	0.443	0.255	0.493

Standard errors in parentheses

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Kilde: Data fra Sievertsen øvelse