Replication materials

Vocational versus General Upper Secondary Education and Earnings

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Data availability

This study uses anonymized micro data from Statistics Denmark based on administrative registers. These data are available only at protected research servers at Statistics Denmark. It is not permitted to extract any micro data from Statistics Denmark. To gain access to micro data through Statistics Denmark, researchers must be affiliated with a Danish authorized research environment; authorization is undertaken by Statistics Denmark. For any research project, Statistics Denmark must approve a project description of the purpose of the project, the study population, the data needed, and the researchers involved. Statistics Denmark then makes the data available to the named researchers at a protected research server. Access is provided through the researcher's PC over the Internet. To replicate the analyses presented in this paper, then, a researcher must affiliate with an authorized Danish research environment and apply to Statistics Denmark for access to the relevant data. For more details, see https://www.dst.dk/en/TilSalg/Forskningsservice.

The authors are committed to providing guidance on obtaining access to the data.

Code for replication

The Stata code is provided in a number of separate Stata do files. The overall structure of these files, and the order in which they should be executed, is provided in the file A0_runall.do. The first files extract the relevant data from the administrative registers, and the last files contain code for estimation of models and construction of tables and figures.

The B0_estimation.do file creates descriptive tables and calculates some of the estimation results. For models with bootstrapped standard errors, and tables and figures based on these models, the

code is provided at a later stage in the B0_estimation.do file, or in the following do files (with names prefixed B1-B8).

Initial versions of the MTE models (without bootstrapped standard errors) are estimated in the B0_estimation.do file to determine the order of the polynomials in the propensity score. For the selected models, bootstrapped standard errors are then calculated either in the B0_estimation.do file, or in the following do files (prefixed B1, B2, etc.) if the outcome is predicted earnings at age 40 (or age 28), or if policy-relevant treatment effects are calculated.

The bootstrap estimation programs prefixed B1, B2, etc., must be executed separately for each gender and (when relevant) each policy-relevant treatment effect; see the global macros in the first lines of the programs. (Here, the number of repetitions and the seed may also be changed.) For instance, to construct the main MTE table (Table 6) in the B2_bootstrap_tables_6_A14_figure_1.do program, it is necessary first to run each of the programs B1_bootstrap_prte_p01.do and B2_bootstrap_earn28_prte_p01.do 10 times (by gender and the five PRTEs included in Table 6).

The table below shows, for each table and figure in the paper and the online appendix, the do file in which the table or figure is created and the do files which provide estimation result inputs. When a table or figure is created in the B0_estimation do file, all inputs are also created in the B0 file.

Overview of the program do files that are used to construct the tables and figures in the paper and the appendix

Table	Created in do file	Inputs created in do files
1	B0	
2	B0	
3	B0	
4	B4	B4
5	B0	
6	B2	B1, B2
A1	A15	
A2	B0	
A3	B0	
A4	B0	
A5	B0	
A6	B4	B4
A7	B0	
A8	B0	
A9	B0	
A10	B0	
A11	B0	
A12	B0	
A13	B0	
A14	B2	B0, B2
B1	B8	B8
C1	B3	B1, B2, B3
C2	B3	B1, B2, B3
C3	B2	B0, B2
C4	B5	B1, B5
C5	B5	B1, B5
C6	B6	B2, B6

Table	Created in do file	Inputs created in do files
C7	B0	
C8	B0	
C9	B0	
C10	B7	B7
C11	B0	
C12	B0	
C13	B0	
C14	B0	
C15	B0	

Figure		
1	B2	B1, B2
2	B0	
A1	B0	
C1	B7	B7