Assignmente Mojecto Lexiam Help Instrumental variables

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Introduction

This class will review:

Instrumental variables sect Exam Help Tests for endogeneity of regressors

Tests for weak instruments

Tests of overidentifying restrictions (instrument validity) tps://tutorcs.com

- We begin with a demonstration from Microeconometrics using STATA Chapter 6 looking at the effect of employer/union sponsored health insurance on drug expenditures 121. CSTUTOTCS
- We move on to a practical looking at the the returns to schooling

Demonstration (1)

Assignment Project Exam Help insurance

- The data is from the Medical Expenditure Panel Survey

 We explore the effect of employer/union sponsored health

 insurance (hi_empunion) on (log) drug expenditure

 (ldrugexp)
- We treat insurance as endogenous as it is a choice Variable Those who expect high future medical expenses are note likely to take out insurance.

Demonstration (2)

Assi We analyse data of Pealth, retirement and private Help

- We consider as instruments:
 - The proportion of total income that comes from social

security (ssiratio) As indicate the lew income status (by income) The size of the individual's firm's labour force (firmsz)

- Whether the firm operates in more than one location (multlc)
- As exegenous regressors we include number of chronic conditions (@dhr), @eStendle, Olack hispanic indicator (blhisp) and log income (linc)
 - The data are mus06data.dta and the do file is mus06p1iv.do

Practical (1)

We use data from Kling (2001): mus06klingdata.dta are

Assiwage data collected 1976 ect Exam Help (grade76) on wages (wage76)

- Other covariates in the wage equation could be black, south 75 Snsa7d ldd2reft Csns66, dger 6 agesq76. (Use desc)
- Years of schooling (grade76) is endogenous! Those with higher ability tend to have more schooling, and ability ought also to determine wages.
- Possible instruments could be proximity to a 4 year college (col4) or family education levels (e.g. daded momed)

Practical (2)

Load the data

Assigniment is another to be main mentel p

- Estimate the 2SLS model and optimal two-step GMM. Assume heteroskedastic errors. Interpret your results
- thtta sout the statement of the south of the
- Are your results sensitive to the choice of instrument(s)?
- Is there evidence of endogeneity of the regressors in your Are your instruments weak?
- Are your instruments valid?