Replication Data for:

"Market Design in Regulated Health Insurance Markets: Risk Adjustment vs. Subsidies"

Einav, Finkelstein, Tebaldi

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The ***/replication_files*** (28 MB unzipped) folder contains:

/input :

Files generated in Tebaldi, P. (2025). "Estimating equilibrium in health insurance exchanges: Price competition and subsidy design under the aca." *Review of Economic Studies*, *92*(1), 586-620., with data and code provided in https://zenodo.org/records/10456091

/output :

Empty folder to collect intermediate files

/exhibits with subfolder ***/exhibits/tex*** :

Empty folder(s) to collect exhibits for replication of the article.

/scripts **:**

Replication code.

This employs Matlab and Artelys-Knitro, and it is structured as follows.

/scripts/m00_main_run.m **: execute this file from within the folder for full replication**

This runs in order the following scripts:

SIMULATIONS:

/scripts/m/m01_simulations_monopoly.m :

Simulates subsidies and risk adjustment under monopoly (Section 4)

/scripts/m/m02_simulations_oligopoly_riskadjustment.m

Simulates risk adjustment under oligopoly (Section 5)

/scripts/m/m03_simulations_oligopoly_subsidy.m :

Simulates subsidies under oligopoly (Section 5)

/scripts/m/m04_simulations_ oligopoly_subsidy_het.m :

Simulates tiered subsidies under oligopoly (Section 5)

/scripts/m/m05_simulations_ oligopoly_noisy1riskadjustment.m :

Simulates noisy risk adjustment with R2=0.1 (Section 5)

/scripts/m/m06_simulations_ oligopoly_noisy3riskadjustment.m :

Simulates noisy risk adjustment with R2=0.3 (Section 5)

/scripts/m/m07_simulations_oligopoly_incsubsidy.m :

Simulates subsidies on income (Section 5)

/scripts/m/m08_simulations_monopoly_skim.m :

Simulations for cream-skimming monopolist (Appendix)

EXHIBITS:

/scripts/m/m11_Section_3.m :

Generates exhibits in Section 3

/scripts/m/m11_LA_2014_figures.m :

Generates figures on LA example (Section 4)

/scripts/m/m11_Section_5.m :

Generates exhibits in Section 5

/scripts/m/m11_Section_App.m :

Prepares input for appendix figure and generates Figure A.1(b)

/scripts/m/m11_Section_4.m :

Generates exhibits in Section 4 and Appendix Figure A.1(a)

The scripts invoke functions collected in */scripts/m/functions_routines* .

Instructions for the replicator:

1. Download the replication_files.zip folder
2. Extract the folder content
3. Open Matlab and select *replication_files/scripts* as working directory
4. Run m00_main_run.m

Note: this requires a valid Artelys-Knitro installation, and 24 or more CPU cores. Total runtime can be very long. It is recommended to run the scripts named m01_..., m_02_..., ..., m_08... on separate instances of Matlab or on separate tasks of a cluster. Then, the scripts m11_..., m12_..., ..., m15_... must be run in sequence, and lead to full replication within 24 hours of runtime.