README

Overview

The code in this replication package constructs the analysis file, tables, and figures for "Correcting for Transitory Effects in RCTs: Evidence from the RAND Health Insurance Experiment" by Balesh Abadi, Devereux and Omran from the RAND HIE data publicly available on ICPSR and Penn World Tables 9.0. Eleven STATA programs produce all results. The code should run in several hours, with the bulk of the time dedicated to the arc elasticity estimates with bootstrapped standard errors.

Data Availability and Provenance Statements

☐ This paper does not involve analysis of external data (i.e., no data are used or the only data are generated by the authors via simulation in their code).

Statement about Rights

☑ I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.

Summary of Availability

☑ All data **are** publicly available.
☐ Some data **cannot be made** publicly available.
☐ **No data can be made** publicly available.

Details on each Data Source

The data used to support the findings of this study come from the ICPSR repository. Price levels from the Penn World Tables 9.0. The data were downloaded by the authors. A copy of the data is provided as part of this archive. The data are in the public domain.

Code for data cleaning and analysis is provided as part of the replication package.

Dataset list

Data for HIE participant baseline information are contained in 06439-0160-Data.dta. Data for HIE participant spending are contained in 06439-0163-Data.dta. These are both contained as a part of the RAND HIE data files, which are publicly available here: https://www.icpsr.umich.edu/web/ICPSR/studies/6439.

Price level data are contained in pwt90.xslx. These are publicly available here: https://www.rug.nl/ggdc/productivity/pwt/.

Complete documentation and data dictionairies are publicly available for all files at their respective sources.

Data file	Source	Notes	Provided
`06439-0160-Data.dta`	ICPSR	As per terms of use	Yes
`06439-0163-Data.dta`	ICPSR	As per terms of use	Yes
`pwt90.xslx`	All listed	As per terms of use	Yes

Computational requirements

Software Requirements

- Stata (code was last run with version 16)
  - `estout` (as of 2019-05-31; included in archive)
  - `outtable` (as of 2014-08-03; included in archive)
  - the program "`0_BDOtransitory_MAIN.do`" will install all dependencies locally, and should be run once.

Controlled Randomness

- Random seed is set at line 9 of program `7_BDOtransitory_table5-arcdif.dta` and line 9 of `10_BDOtransitory_table8-coinsurance.dta`

Memory and Runtime Requirements

Summary Approximate time needed to reproduce the analyses on a standard 2022 desktop machine:

☐ <10 minutes
☐ 10-60 minutes
☑ 1-8 hours
☐ 8-24 hours
☐ 1-3 days
☐ 3-14 days
☐ > 14 days
☐ Not feasible to run on a desktop machine, as described below.

Details The code was last run on a **4-core Intel-based laptop with Windows version 10.0.18363**.

- `code/1_BDOtransitory_clean.do` will extract and reformat all datasets referenced above.
- Programs in `code/` generate all tables and figures in the main body of the article. The program `code/0_BDOtransitory_MAIN.do` will run them all. Each program called from `main.do` identifies the table or figure it creates. Output files are called appropriate names and should be easy to correlate with the manuscript.

List of tables and programs

The provided code reproduces:

☐ All numbers provided in text in the paper
☑ All tables and figures in the paper
☐ Selected tables and figures in the paper, as explained and justified below.

Figure/Table #	Program	Output file
Table 1 top panel	code/2_BDOtransitory_figure1ab-deadline.do	Figure_01a, Figure_01b
Table 1 bottom panel	code/3_BDOtransitory_figure1cd-deadlinesplit.do	Figure_01c, Figure_01d
Table 2	code/4_BDOtransitory_table2-regtotal.do	Table_02.txt
Table 3	code/5_BDOtransitory_table3-regcategories.do	Table_03.txt
Table 4	code/6_BDOtransitory_table4-leveldif.do	Table_04.txt
Table 5	code/7_BDOtransitory_table5-arcdif.do	Table_05.txt
Table 6	code/8_BDOtransitory_table6-logcategories.do	Table_06.txt
Table 7	code/9_BDOtransitory_table7-logleveldif.do	Table_07.txt
Table 8	code/10_BDOtransitory_table8-coinsurance.do	Table_08.txt

References

Balesh Abadi, M., Devereux, K., and Omran, F. 2022. "Correcting for Transitory Effects in RCTs: Evidence from the RAND Health Insurance Experiment." *Canadian Journal of Economics, forthcoming.*

Baum, C. F., and Azevedo, J. P., 2001. "OUTTABLE: Stata module to write matrix to LaTeX table," Statistical Software Components S419501, Boston College Department of Economics, revised 03 Aug 2014.

Feenstra, R. C., Inklaar, R., and Timmer, M. P., 2015. "The Next Generation of the Penn World Table." *American Economic Review*, 105 (10):3150–3182.

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Jann, B., 2004. "ESTOUT: Stata module to make regression tables," Statistical

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Newhouse, J. P., 2005-11-04. "RAND Health Insurance Experiment [in Metropolitan and Non-Metropolitan Areas of the United States], 1974-1982." *Inter-university Consortium for Political and Social Research [distributor]*. https://doi.org/10.3886/ICPSR06439.v1