

Maternal Depression Data and Code

This readme file explains how to replicate the analysis in

Baranov, Bhalotra, Biroli, Maselko (2019)

"Maternal Depression, Women's Empowerment, and Parental Investment: Evidence from a Randomized Control Trial"

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Data and Code can be downloaded here: <https://github.com/pietrobiroli/maternalDepression>

How to replicate the results

STEP 1:

- Download and unpack the zip file into a preferred location.

- Folder should contain the following elements

- folders:

- dataClean/
- figures/
- logfiles/
- tables/

- files:

- README.md
- README.pdf
- 00_runall.do
- THP_analysis.do
- THP_cleandata.do
- THP_mergedata.do
- THP_label_variables.do
- _gw_eightave.ado
- pstar.ado
- randcmd.ado
- randcmd.sthlp
- stepdownB.ado
- stepdownrandcmd.ado

STEP 2:

- Open 00_runall.do in Stata
- Change the "global maindir" location to the path on your computer where you downloaded the data
- run 00_runall.do: this will run the data analysis, probably over several days, and produce all of the output presented in the paper.
- To obtain only a subset of the output, open THP_analysis.do and set the switches to 1 or 0 accordingly
- To make the code run faster, open THP_analysis.do and change "global iterations" to a lower number (e.g. 10)
- NB: Files THP_merge.do and THP_cleandata.do merge and clean raw data that is not publicly available due to confidential information on respondents and health workers.

Description of the code

NOT FOR REPLICATION:

0. THP_merge.do --

This file merges the raw data and ensures that the publicly available data contains no confidential information. The raw datasets are not included as they all contain identifying information on respondents and health workers.

1. THP_cleandata.do -- This file starts from the merged data and cleans it for the analysis

- This file will use the following inputs
 - /dataRaw/THP_merge.dta

*This file will produce the following outputs

* /dataClean/THP_clean.dta

* /dataClean/THP_clean.csv

- commands needed:
 - _gw_eightave (From Haushofer 2013)
 - mat2txt
 - xtgraph
 - zanthro (from https://www.stata-journal.com/article.html?article=dm0004_1)

FOR REPLICATION:

2. THP_analysis.do -- This file takes the clean data (from THP_cleandata.do) and runs the analysis for the paper.

NB: The code can take several days to run to reproduce all the tables in the paper because of the randomization inference and stepdown procedures.

- o This file will use the following inputs
 - /dataClean/THP_clean.dta
- o This file will produce the following outputs
 - all Tables and Figures in the manuscript and online appendix.
- o commands needed:
 - pstar (from <https://github.com/PrincetonBPL/ado-gallery>)
 - leebounds (from <https://github.com/PrincetonBPL/ado-gallery>)
 - randcmd (from A Young's website <http://personal.lse.ac.uk/YoungA/>)
 - stepdownB (adapted from <https://github.com/PrincetonBPL/ado-gallery>)
 - stepdownrandcmd (adapted from <https://github.com/PrincetonBPL/ado-gallery>)
 - mat2txt
 - estout
 - moremata
 - xtgraph
 - kdens
 - coefplot
 - blindschemes
 - grc1leg (from <http://www.stata.com/users/vwiggins/grc1leg/grc1leg.ado>)
 - leebounds (from <https://www.stata-journal.com/article.html?article=st0364>)

Correspondence between code output and paper tables and figures

Here below a crosswalk between the tables and figures in the final version of the paper and the section of the code that create them.

	Code section	Output name
Figure 2	`itt_figure'	figures/coefplot_all.pdf
Figure 3	`dep_trends'	figures/dep_trends.pdf
Table 1	`balance_tables'	tables/baseline_balance.tex
Table 2	`depression_trajectory'	tables/depression_mainvars.tex
Table 3	`depression_trajectory'	tables/depression_mainvars.tex
Table 4	`main_tables'	tables/c_main_motherdecisions.tex
Table 5	`dep_nondep'	tables/c_dep_nondep_mothergap.tex
Table 6	`main_tables'	tables/c_main_childoutcomes.tex
Table 7	`dep_nondep'	tables/c_dep_nondep_childoutcomes.tex
Table 8	`main_attrition_ipw'	tables/c_ipw_main_allindices.tex
Table 9	`main_tables'	tables/c_main_mediators.tex
Appendix Table A1	`balance_tables'	tables/attrition_balance.tex
Appendix Table A2	`balance_tables'	tables/baseline_balance_bygender.tex.tex

Note: Table 2 and 3 are created from the same file, and then manually separated