Reproducible Research Repository

"The Fertility Impacts of Development Programs"

Third Submission: RR_SSA_2024_128
María Reyes Retana, Mahin Tariq
reproducibility@worldbank.org
June 12th, 2024

This review verifies the reproducibility of the exhibits included in the paper *"The Fertility Impacts of Development Programs"*.

Contents in this review:

1. Main findings

2. List of exhibits and reproducibility status

3. Reproduction Environment

Main findings

- This verification was conducted through a virtual reproducibility verification session on May 28th, 2024. The authors executed the code during this session, starting from a clean slate with no package dependency. After the code finished running the authors shared with the reproducibility team the exhibits generated and we validated them against their paper exhibits.

- The code in the author's computer was successfully executed after:

  1. Changing the file path.
  2. Setting the ado folder.
  3. Running the line: sysdir set PLUS "path"

- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.

- The code takes approximately 5 minutes to run.

- We conducted our reproducibility analysis based on the paper shared by the authors on June 12th, 2024.

- Every exhibit has been reproduced accurately.

- **Reproducibility Summary**:

  - **Data**: All data is confidential and not included in the package (details provided in README).
  - **Code**: All code files are included in the package.
  - **Outputs**: All outputs are generated by code included in the reproducibility package.
  - **Reproducibility verification**: Reviewers verified the package via virtual verification and did not have access to the data.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Table 1** Reproduced

- **Table 2** Reproduced

- **Table 3** Does not show analysis results.

- **Table 4** Reproduced Values for "Controls", "Clustered SE", "Strata fixed effects" and "Time lag b/w intervention(s)" were manually added and are missing from the code output.

- **Table 5** Reproduced Values for "Controls", "Clustered SE", "Strata fixed effects" and "Time lag b/w intervention(s)" were manually added and are missing from the code output.

- **Table 6** Reproduced

- **Figure 1** Reproduced

- **Table 7** Reproduced

- **Table 8** Reproduced

- **Table 9** Reproduced

- **Table 10** Reproduced

- **Table 11** Reproduced

- **Table 12** Reproduced

- **Table 13** Reproduced

  Results in the Annex

- **Table A.1** Does not show analysis results

- **Table A.2** Does not show analysis results.

- **Table A.3** Does not show analysis results.

- **Table A.4** Reproduced

- **Table A.5** Reproduced The value for 'Unemployed' for TC in Rwanda is -0 in the code output, whereas it is 0 in the paper. However, this does not jeopardize reproducibility.

- **Table A.6** Reproduced

- **Table A.7** Reproduced

- **Table A.8** Reproduced

- **Table A.9** Reproduced

- **Table A.10** Reproduced

- **Table A.11** Reproduced

- **Table A.12** Reproduced

- **Table A.13** Reproduced

Reproduction Environment

- Author's computer has the following specifications:

  - OS: macOS version 10.15.7

  - Processor: : Intel Core i7 processor running at 2.8 GHz

  - Software version: Stata version 17