



Texting Parents about Early Child Development: Behavioral Changes and Unintended Social Effects

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This review verifies the reproducibility of the exhibits included in the paper “*Texting Parents about Early Child Development: Behavioral Changes and Unintended Social Effects*”.

Contents in this review:

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Main findings

- **All exhibits in the paper have been successfully reproduced, with the exception of Table 1 which shows minor discrepancies in the column ‘P-values’. This does not affect the key findings or take-aways of the paper.**
- The code was successfully executed on a new computer after:
 1. Opening the script "master" do file, changing the directory on line 55, and running it.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 5 minutes
- We conducted our reproducibility analysis based on the paper shared by the authors
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 1 type of data: Forthcoming data
 - Reviewers used forthcoming data which will be archived in the World Bank Microdata Library.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the forthcoming/accessible/limited-access/restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**
 - **Data:** All data is not yet publicly available but is expected to be made available through the World Bank Microdata Library in the future.

- **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
- **Outputs:** All outputs are generated by code included in the reproducibility package.
- **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1** Reproduced.
- **Table 1** Results partially reproduced. The 'P-values' column has some discrepancies. However, this does not affect the paper's conclusions.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.
- **Table 6** Reproduced.
- **Table 7** Reproduced.
- **Table 8** Reproduced.

Results in the Annex

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining datasets to assess the appendix. Our review was based on those 10 exhibits. Since they were chosen randomly, we are operating under the assumption that if all randomly selected exhibits are reproducible, then the rest should be as well. The seed used to generate the random selection was 766563, the Stata version used was 19.5, and the exhibits selected were: Figure A4, Table A2, Table A12, Table A15, Table A17, Table A19, Table A21, Table A22, Table A23, Table A26

- **Figure A4** Reproduced.
- **Table A2** Reproduced.
- **Table A12** Reproduced.
- **Table A15** Reproduced.
- **Table A17** Reproduced.
- **Table A19** Reproduced
- **Table A21** Reproduced
- **Table A22** Reproduced
- **Table A23** Reproduced
- **Table A26** Reproduced

Reproduction Environment

Paper exhibits were reproduced on a computer with the following specifications:

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz (2.30 GHz) (2 processors)
- Memory available: 16 GB
- Software version: Stata 19.5 MP