



Motivating Improved Healthcare Using Holistic Patient Contracts

Fourth Submission: RR_EST_2024_101

Mahin Tariq, Luis Eduardo San Martin

reproducibility@worldbank.org

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This review verifies the reproducibility of the exhibits included in the paper “*Motivating Improved Healthcare Using Holistic Patient Contracts*”.

Contents in this review:

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Main findings

- The code was successfully executed on a new computer without adding any changes to the code. The reviewers executed the code script by script following the order in the script prefixes.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 12 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors via email on August 30, 2024.
- Every exhibit has been reproduced accurately.
- **Reproducibility Summary:**
 - **Data:** All data is restricted and has not been included in the reproducibility package. For more details, please refer to the README file.
 - **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.
 - **Reproducibility verification:** Reviewers used data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package.
 - **Dependencies environment:** The reviewers created a new environment for dependencies using the latest versions available for each dependency at the moment of the review.

*List of exhibits and reproducibility status***Results in the Main Section of the Paper**

- **Figure 1** Does not show analysis results
- **Table 1** Reproduced
- **Table 2** Reproduced
- **Table 3** Reproduced
- **Table 4** Reproduced
- **Figure 2a** Reproduced
- **Figure 2b** Reproduced
- **Figure 3a** Reproduced
- **Figure 3b** Reproduced

Results in the Annex

- **Table A1** Does not show analysis results
- **Table A2** Reproduced
- **Figure A1** Does not show analysis results
- **Figure A2a** Reproduced.
- **Figure A2b** Reproduced
- **Table A3** Does not show analysis results
- **Table A4** Reproduced
- **Table A5** Reproduced
- **Table A6** Reproduced
- **Table A7** Reproduced
- **Table A8** Reproduced Values for "N" are missing from the code output. We manually verified them from table 7's ECM section.
- **Figure A3** Reproduced

Reproduction Environment

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

- OS: Windows 10 Enterprise, version 22H2
- Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz 2.90 GHz (2 processors)
- Memory available: 128 GB
- Software version: R 4.2.1 (Funny-Looking Kid)