



Luck of the Draw: The Causal Effect of Physicians on Birth Outcomes

First Submission: PP_COL_2024_183

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December 09, 2024

This review verifies the reproducibility of the exhibits included in the paper “*Luck of the Draw: The Causal Effect of Physicians on Birth Outcomes*”.

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2. List of exhibits and reproducibility status
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Main findings

- The code used restricted data that could not be shared with the reviewers. The review took place virtually and the reviewers verified that the code ran on the computer of one of the authors. The logs and outputs produced were then sent to reviewers for verification.
- The code takes approximately 30 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors via Dropbox by email on December 06.
- 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 verified the package via virtual verification and did not have access to the data.
 - **Dependencies environment:** The reviewers gave instructions to the authors to create 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** Reproduced.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Figure 2** Reproduced.
- **Table 4** Reproduced.
- **Figure 3** Reproduced.
- **Table 5** Reproduced.
- **Table 6** Reproduced.
- **Table 7** Reproduced.
- **Table 8** Reproduced.
- **Table 9** 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 508152, the Stata version used was 16, and the exhibits selected were: Figure A.1, A.2, A.7, and Table A.4, A.9, A.10, A.12, A.13, A.14, A.15.

- **Figure A.1** Reproduced.
- **Figure A.2** Reproduced.
- **Figure A.3** Reproduced.
- **Table A.9** Reproduced.
- **Figure A.7** Reproduced.
- **Table A.10** Reproduced.
- **Table A.12** Reproduced.
- **Table A.13** Reproduced.
- **Table A.14** Reproduced.
- **Table A.15** Reproduced.

Reproduction Environment

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

- OS: Windows 10 Enterprise
- Processor: Intel(R) Xeon(R) Silver 4208 CPU @ 2.10GHz
- Memory available: 128 GB
- Software version: Stata 17 MP-Parallel edition