



# Reproducible Research Repository

## *“Stylized Facts about the Global Health Workforce”*

*First Submission: FR\_WLD\_2024\_140*

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This review verifies the reproducibility of the exhibits included in the report *“Stylized Facts about the Global Health Workforce”*.

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### *Main findings*

- The code was successfully executed on a new computer after:
  1. Changing the file paths in the main do file.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 3 minutes to run.
- We conducted our reproducibility analysis based on the report in the author’s reproducibility package.
- Every exhibit has been reproduced accurately.
- The figures in the final document were created using Excel and a Data Wrapper; however, the authors have also developed code that generates figures with the same numerical values, albeit with some aesthetic differences. These differences will be noted in the output list, exhibit by exhibit. Since the numbers match, we consider this to be reproducible.
- **Reproducibility Summary:**
  - **Data:** Some data is confidential and has not been included in the package. For more details, please refer to the README file.
  - **Code:** All code files (from cleaning to analysis) are included in the package.
  - **Outputs:** All outputs are generated by code included in the reproducibility package.
  - **Reproducibility verification:** Not all of the data used to conduct this verification is included in the public package.

## *List of exhibits and reproducibility status*

### **Results in the Main Section of the Paper**

- **Figure 1 Reproduced.** The order and color of the columns, as well as the rounding of their values, differ from the report. However, since the numerical data match exactly, we consider this figure reproducible.
- **Figure 2 Reproduced.** The aesthetics differ. However, since the numerical data match exactly, we consider this figure reproducible
- **Figure 3 Reproduced.** The aesthetics differ, and the figure produced by the code is missing the labels. However, since the numerical data match exactly, we consider this figure reproducible
- **Figure 4 Reproduced.** The aesthetics differ. The code produced by the code is a bar chart, while the final figure shown in the report is a lollipop chart. However, since the numerical data match exactly, we consider this figure reproducible
- **Figure 5 Reproduced.** The aesthetics differ. The code produced by the code is a bar chart, while the final figure shown in the report is a stacked bar. However, since the numerical data match exactly, we consider this figure reproducible
- **Figure 6 Reproduced.** The order and color of the columns, as well as the rounding of their values, differ from the report. However, since the numerical data match exactly, we consider this figure reproducible.
- **Figure 7 Reproduced.** The figures generated by the code are presented as individual bars, whereas the figure in the report combines these into a single figure with 10 bars. Additionally, there are differences in color and rounding. However, since the numerical data match exactly, we consider this figure to be reproducible.
- **Figure 8 Reproduced.** The figures generated by the code are presented as individual bars, whereas the figure in the report combines these into a single figure with 2 bars. Additionally, there are differences in color and rounding. However, since the numerical data match exactly, we consider this figure to be reproducible.
- **Figure 9 Reproduced.** The aesthetics differ. However, since the numerical data match exactly, we consider this figure reproducible
- **Figure 10 Reproduced.** The aesthetics differ, the figure produced by the code is a bar chart while the figure in the report is a point chart. However, since the numerical data match exactly, we consider this figure reproducible
- **Figure 11 Reproduced.** The aesthetics differ. However, since the numerical data match exactly, we consider this figure reproducible
- **Figure 12 Reproduced.** The figures generated by the code are presented as individual bars, whereas the figure in the report combines these into a single figure with 2 bars. Additionally, there are differences in color and rounding. However, since the numerical data match exactly, we consider this figure to be reproducible.

- **Figure 13** **Reproduced**. The order and color of the columns, as well as the rounding of their values, differ from the report. However, since the numerical data match exactly, we consider this figure reproducible.

### *Reproduction Environment*

- Paper exhibits were reproduced in a computer with the following specifications:
  - OS: Windows 10 Enterprise
  - Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz, 2900 Mhz, 4 Core(s), 4 Logical Processor(s)
  - Memory available: 16.2 GB
  - Software version: Stata version 18