



Using Survey Data To Understand The Health Needs Of Difficult To Reach Populations: Evidence From A Community Survey Regarding The Individual And Contextual Correlates Of Sex Life Happiness Amongst European MSM

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This review verifies the reproducibility of the exhibits included in the paper “Using Survey Data To Understand The Health Needs Of Difficult To Reach Populations: Evidence From A Community Survey Regarding The Individual And Contextual Correlates Of Sex Life Happiness Amongst European MSM”.

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Main findings

- **Every exhibit in the main section of the paper has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Updating the file path in Rep2.do do-file and running the code.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 4 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors in the reproducibility package.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on two types of data: open, and limited-access.
 - Open data is included in the public reproducibility package.
 - Reviewers used limited-access data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. Instructions to access the data are included in the README.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the limited-access data can use this file to verify that the data has not been altered.

- **Reproducibility Summary:**

- **Data:** Some data is limited-access 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.
- **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

- **Table 1 Reproduced.** Verified against MyTable1.docx. The table generated by the code reports column percentages, whereas the corresponding table in the manuscript presents row percentages. After manually recalculating the percentages using the appropriate denominator, the values match those reported in the manuscript.
- **Table 2 Reproduced.** Verified against tab2.rtf. Minor differences in the ordering of categories were observed, but these do not affect the results. The intraclass correlation, likelihood ratio test, AIC, and BIC were compared with the values reported in the Stata results window.
- **Table 3 Reproduced.** Verified against tab3.rtf. The intraclass correlation, likelihood ratio test, AIC, and BIC were compared with the values reported in the Stata results window.
- **Table 4 Reproduced.** Verified against the results displayed in the Stata output window.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz
- Memory available: 32.0 GB
- Software version: Stata 19.5 MP