This form documents the artifacts associated with the article (i.e., the data and code supporting the computational findings) and describes how to reproduce the findings.

т			-		$\mathbf{T}$		
ப	ar	+		•	D	<b>~1</b>	· •
	71		•		. ,	7	

This paper	does	onumber	involve	analysis	of	external	${\rm data}$	(i.e.,	no	${\rm data}$	are	used	or	the	only	data	are
generated b	by the	auth	ors via	simulatio	n i	in their co	ode).										

☑ I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.

# Abstract

We provide data and R code.

# Availability

☐ Data **are** publicly available.

 $\square$  Data **cannot be made** publicly available.

If the data are publicly available, see the *Publicly available data* section. Otherwise, see the *Non-publicly available data* section, below.

# Publicly available data

Ш	Data	are	avaı.	lable	e on	line	at:

 $\square$  Data are available as part of the paper's supplementary material.

 $\square$  Data are publicly available by request, following the process described here:

□ Data are or will be made available through some other mechanism, described here:

# Non-publicly available data

# Description

# File format(s)

 $\square$  CSV or other plain text.

□ Software-specific binary format (.Rda, Python pickle, etc.): pkcle

□ Standardized binary format (e.g., netCDF, HDF5, etc.):

 $\boxtimes$  Other (please specify): A .zip file contains all the files.

# Data dictionary

☑ Provided by authors in the following file(s): A .zip file contains all the files.

☐ Data file(s) is(are) self-describing (e.g., netCDF files)

 $\square$  Available at the following URL:

# Additional Information (optional)

# Part 2: Code

### Abstract

We provide R code for simulation and data analysis.

Description
$\operatorname{Code} \operatorname{format}(\operatorname{s})$
⊠ Script files         □ R         □ Python         □ ATLAB         □ Python         □ MATLAB toolbox         □ Other:         □ Reproducible report         □ R Markdown         □ Jupyter notebook         □ Other:         □ Shell script         □ Other (please specify):
Supporting software requirements
Version of primary software used R version 4.1.3
<b>Libraries and dependencies used by the code</b> tictoc (Version 1.0.1), mice (Version 3.14.0), dplyr (Version 1.0.8), parallel (Version 4.1.3), xlsx (Version 0.6.5), ggplot2 (Version 3.3.5), readstata13 (Version 0.10.0), boot (Version 1.3-28), MASS(Version 7.3-55), scales (Version 1.2.1).
Supporting system/hardware requirements (optional)
MacOS monterey Version 12.1 Apple M1 Memory 8 GB
$x86\_64$ -apple-darwin17.0 (64-bit)
Parallelization used
<ul> <li>□ No parallel code used</li> <li>⋈ Multi-core parallelization on a single machine/node         <ul> <li>Number of cores used: 8</li> </ul> </li> <li>□ Multi-machine/multi-node parallelization         <ul> <li>Number of nodes and cores used:</li> </ul> </li> </ul>
License
<ul> <li>MIT License (default)</li> <li>□ BSD</li> <li>□ GPL v3.0</li> <li>□ Creative Commons</li> <li>□ Other: (please specify)</li> </ul>

# Additional information (optional)

# Part 3: Reproducibility workflow

Scope
The provided workflow reproduces:
<ul> <li>☒ Any numbers provided in text in the paper</li> <li>☒ The computational method(s) presented in the paper (i.e., code is provided that implements the method(s))</li> <li>☒ All tables and figures in the paper</li> <li>☒ Selected tables and figures in the paper, as explained and justified below:</li> </ul>
Workflow
Location
The workflow is available:
<ul> <li> ☒ As part of the paper's supplementary material.</li> <li> ☐ In this Git repository:</li> <li> ☐ Other (please specify):</li> </ul>
$\mathbf{Format}(\mathbf{s})$
<ul> <li>⊠ Single master code file</li> <li>□ Wrapper (shell) script(s)</li> <li>□ Self-contained R Markdown file, Jupyter notebook, or other literate programming approach</li> <li>□ Text file (e.g., a readme-style file) that documents workflow</li> <li>□ Makefile</li> <li>□ Other (more detail in <i>Instructions</i> below)</li> </ul>
Instructions
Please simply run the R code we provide.
Expected run-time
Approximate time needed to reproduce the analyses on a standard desktop machine:
<ul> <li>□ &lt; 1 minute</li> <li>□ 1-10 minutes</li> <li>□ 10-60 minutes</li> <li>⊠ 1-8 hours</li> <li>⊠ &gt; 8 hours</li> <li>□ Not feasible to run on a desktop machine, as described here:</li> </ul>
Additional information (optional)
Notes (optional)