

README and Guidance to Replicate "Worth your Weight"

Executive Summary

This README explains how to replicate the results of “Worth your weight: experimental evidence on the benefits of obesity in low-income countries” using Stata. One master file runs all of the code to generate the data for the figures and tables in the paper. The replicator should expect the code to run for about 140 minutes.

To reproduce all tables and figures, follow the instructions under “Instructions to Replicators”.

Data Availability and Provenance Statements

Statement about Rights

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

Summary of data availability

- Some data cannot be made publicly available: All de-identified data are available to the public, with the exception of the DHS data which are used to build Figure 1. To access the DHS data, you will need to submit a request through the DHS program website, following the instructions provided below.

Dataset List and Details on Data Sources

Data.name	Data.Files	Location	Provided	Citation
Manipulated Portraits characteristics	info_pics.dta	rawdata	Yes	[1] Macchi (2023)
Beliefs experiment data	wyw_beliefs_clean.dta	rawdata	Yes	[1] Macchi (2023)
Beliefs experiment and credit experiment respondents demographics	wyw_beliefs_demographics_clean.dta	rawdata	Yes	[1] Macchi (2023)

Replication of credit experiment with laypeople	Wyw_beliefs_guessapratings_clean.dta	rawdata	Yes	[1] Macchi (2023)
Credit experiment data	wyw_laypeople_sample2_clean.dta	rawdata	Yes	[1] Macchi (2023)
Malawi pilot data	wyw_malawi_clean.dta	rawdata	Yes	[1] Macchi (2023)
Mturk pilot data	wyw_mturk_clean.dta	rawdata	Yes	[1] Macchi (2023)

The experimental data used to support the findings of this study has been uploaded on the “Data and Code for Worth Your Weight” repository (number 181481) with the AEA Data Repository at ICPSR ([1] Macchi 2023 <http://doi.org/10.3886/E181481V1>). The data was collected by the author. The experiments were preregistered on the AEA Registry ([2] Macchi, 2019a and [3] Macchi, 2019b). The datasets are provided in Stata (.dta) format.

Data.name	Data.Files	Location	Provided	Citation
Uganda National Panel Survey 2019/20	gsec1.dta	rawdata/UGA_2019_UNPS_v03_M_STA TA14/HH	Yes	[4] UNPS
Uganda National Panel Survey 2019/20	gsec6_5.dta	rawdata/UGA_2019_UNPS_v03_M_STA TA14/HH	Yes	[4] UNPS
Uganda National Panel Survey 2019/20	gsec7_1.dta	rawdata/UGA_2019_UNPS_v03_M_STA TA14/HH	Yes	[4] UNPS
Uganda National Panel Survey 2019/20	gsec7_2.dta	rawdata/UGA_2019_UNPS_v03_M_STA TA14/HH	Yes	[4] UNPS
Uganda National Panel Survey 2019/20	gsec7_4.dta	rawdata/UGA_2019_UNPS_v03_M_STA TA14/HH	Yes	[4] UNPS

Uganda National Panel Survey 2019/20	gsec12_2.dta	rawdata/UGA_2019_UNPS_v03_M_STA14/HH	Yes	[4] UNPS
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The data on credit use and BMI from the Uganda National Panel Survey (UNPS) were obtained from the Uganda Bureau of Statistics, and can be accessed through the DOI link: <https://doi.org/10.48529/nqzx-f196> [2]. The relevant data files can be found in the "rawdata/UGA_2019_UNPS_v03_M_STA14/HH" folder of the "Data and Code for Worth Your Weight" repository, available on the AEA Data Repository at ICPSR with the identifier number 181481 [1]. The datasets are provided in Stata (.dta) format.

Data.name	Data.Files	Location	Provided	Citation
European Health Interview Survey (EHIS)	eu_obesity_13.xlsx	rawdata	Yes	[5] EHIS
BRFSS	usa_obesity_13.xlsx	rawdata	Yes	[6] BRFSS
GDP per capita	GdpPcPPP.xlsx	rawdata	Yes	[7] World Bank
IPUMS Demographic and Health Survey (DHS)	Not available	rawdata	No	[8] DHS

For EU countries, I downloaded aggregate BMI data from Eurostat on https://ec.europa.eu/eurostat/databrowser/view/hlth_ehis_bmi/default/table?lang=en, accessed in October 2017. For the USA, I downloaded aggregate BMI data from the Center for Diseases Control and Prevention (CDC) downloaded on November 6, 2017 from https://nccd.cdc.gov/dnpao_dtm/rdPage.aspx?rdReport=DNPAO_DTM.ExploreByTopic&isClass=OWS&isTopic=&go=GO.

For low- and middle-income countries, I downloaded DHS data from the DHS program website in March 2019. To access this data, a replicator needs to follow a process that was

developed by Benjamin Daniels, Jishnu Das, Quy-Toan Do, and Samikshya Siwakoti. The process is outlined below. More information can be found in this link: <https://userforum.dhsprogram.com/index.php?t=msg&th=5246&start=0&S=4a22c1574b54935d933d662d79e0eaf2>.

Instructions to download DHS data from DHS program for WYW

<p>Go to the DHS program website at thedhsprogram.com and register as a new user for data access</p>	<div><p>Login or Register for Datasets</p><div><p>New Users Register</p><p>Before you can download datasets, you must register as a DHS data user. Dataset access is only granted for legitimate research purposes. Learn more about data restrictions, why we require registration, how to request access or view a list of available datasets.</p><p>Please be aware that re-distribution of any DHS micro-level data, either directly or within any tool/dashboard, is not permitted.</p><p>Register for Dataset Access</p></div><div><p>Model Datasets Available</p><p>If you would like to try out some data files we have provided some example model datasets for which you do not need to register.</p><p>Click here to download model dataset files.</p></div></div>
<p>You have to justify the usage for requesting the data access. Here is a sample text to use:</p> <p><i>This access is requested for the data replication process for the accepted paper "Worth Your Weight" by Elisa Macchi. The analysis for the paper was carried out with DHS datasets under project title: Experiment obesity developing countries (submitted: 03/30/2019)</i></p> <p><i>As the paper has been completed and accepted for publication by the AER, we are requesting access to check the data analysis process using replication codes submitted by the authors of the paper before publishing the paper. The access shall be used only for academic research purposes.</i></p>	

Go to the DHS program website at thedhsprogram.com and register as a new user for data access

Login or Register for Datasets

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Before you can download datasets, you must register as a DHS data user. Dataset access is only granted for legitimate research purposes. Learn more about data restrictions, [why we require registration](#), [how to request access](#) or view a [list of available datasets](#).

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Model Datasets Available

If you would like to try out some data files we have provided some example model datasets for which you do not need to register.

[Click here to download model dataset files.](#)

Once you are registered for data access, use the following selections in the DHS data downloading process to download the relevant data pertaining to this specific project.

Check:

- All countries
- Individual recode
- Stata system file

Logged in: ss910@columbia.edu

Download Datasets Using a Download Manager

Project: Health Insurance in Low-Income Countries

Select countries, file data types and file format then click "Build URL File List" button.

Country	File Data Type *	File Format *
<input checked="" type="checkbox"/> Check/Uncheck All	<input type="checkbox"/> Check/Uncheck All (DHS)	<input type="checkbox"/> Hierarchical
<input checked="" type="checkbox"/> Afghanistan	DHS	<input type="checkbox"/> Flat file
<input checked="" type="checkbox"/> Albania	<input type="checkbox"/> Births Recode	<input checked="" type="checkbox"/> Stata System file
<input checked="" type="checkbox"/> Angola	<input type="checkbox"/> Children's Recode	<input type="checkbox"/> SAS System file
<input checked="" type="checkbox"/> Armenia	<input type="checkbox"/> Couples' Recode	<input type="checkbox"/> SPSS System file
<input checked="" type="checkbox"/> Azerbaijan	<input type="checkbox"/> Height and Weight Scores - WHO Child Growth Standards	Surveys
<input checked="" type="checkbox"/> Bangladesh	<input type="checkbox"/> Household Member Recode	<input type="radio"/> All
<input checked="" type="checkbox"/> Benin	<input type="checkbox"/> Household Raw	<input checked="" type="radio"/> All DHS
<input checked="" type="checkbox"/> Bolivia	<input type="checkbox"/> Household Recode	<input type="radio"/> All SPA
<input checked="" type="checkbox"/> Brazil	<input type="checkbox"/> Individual Raw	<input type="radio"/> All AIS
<input checked="" type="checkbox"/> Burkina Faso	<input checked="" type="checkbox"/> Individual Recode	<input type="radio"/> All MIS
<input checked="" type="checkbox"/> Burundi	<input type="checkbox"/> Men's Raw	<input type="radio"/> Most Recent
<input checked="" type="checkbox"/> Cambodia	<input type="checkbox"/> Men's Recode	<input type="radio"/> Most Recent DHS
<input checked="" type="checkbox"/> Cameroon	<input type="checkbox"/> Other Data	<input type="radio"/> Most Recent SPA
<input checked="" type="checkbox"/> Central African Republic	<input type="checkbox"/> Service Availability Raw	<input type="radio"/> Most Recent AIS
<input checked="" type="checkbox"/> Chad	<input type="checkbox"/> Verbal Autopsy	<input type="radio"/> Most Recent MIS
<input checked="" type="checkbox"/> Colombia	<input type="checkbox"/> Village Recode	
<input checked="" type="checkbox"/> Comoros	<input type="checkbox"/> Wealth Index	
<input checked="" type="checkbox"/> Congo		

[Build URL File List](#) [Cancel](#)

Click on the 'Build URL File List' button and wait a few minutes. The link to download the data will show up at the top like the example here to the right:

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Download Datasets Using a Download Manager

Project: Health Insurance in Low-Income Countries

Click link below to view list of URLs or right click to download. Copy and paste or import the list into your download manager. There are various download managers available for all the major browsers. See [DHS Userforum](#) for more information.

- [Text file with URLs \(323 files\)](#)

Select countries, file data types and file format then click "Build URL File List" button.

Go to the DHS program website at thedhsprogram.com and register as a new user for data access

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New Users Register

Before you can download datasets, you must register as a DHS data user. Dataset access is only granted for legitimate research purposes. Learn more about data restrictions, [why we require registration](#), [how to request access](#) or view a [list of available datasets](#).

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Model Datasets Available

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[Click here to download model dataset files.](#)

Click on the 'Text file with URLs' then you will see a list of URLs:

```
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AFIR71DT.zip&Tp=1&Ctrlr_Code=AFASurv_id=4716dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AMIR51DT.zip&Tp=1&Ctrlr_Code=AMASurv_id=3276dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AMIR71DT.zip&Tp=1&Ctrlr_Code=AMASurv_id=3296dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AMIR71DT.zip&Tp=1&Ctrlr_Code=AMASurv_id=4776dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AMIR42DT.zip&Tp=1&Ctrlr_Code=AMASurv_id=2036dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AMIR54DT.zip&Tp=1&Ctrlr_Code=AMASurv_id=2626dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AMIR54DT.zip&Tp=1&Ctrlr_Code=AMASurv_id=3546dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AMIR72DT.zip&Tp=1&Ctrlr_Code=AMASurv_id=4926dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=AMIR52DT.zip&Tp=1&Ctrlr_Code=AMASurv_id=2796dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BDIR31DT.zip&Tp=1&Ctrlr_Code=BDASurv_id=596dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BDIR3ADT.zip&Tp=1&Ctrlr_Code=BDASurv_id=896dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BDIR41DT.zip&Tp=1&Ctrlr_Code=BDASurv_id=1356dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BDIR43DT.zip&Tp=1&Ctrlr_Code=BDASurv_id=2366dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BDIR51DT.zip&Tp=1&Ctrlr_Code=BDASurv_id=2876dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BDIR61DT.zip&Tp=1&Ctrlr_Code=BDASurv_id=3496dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BDIR72DT.zip&Tp=1&Ctrlr_Code=BDASurv_id=4616dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BDIR78DT.zip&Tp=1&Ctrlr_Code=BDASurv_id=5366dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BJIR31DT.zip&Tp=1&Ctrlr_Code=BJASurv_id=876dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BJIR41DT.zip&Tp=1&Ctrlr_Code=BJASurv_id=2116dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BJIR51DT.zip&Tp=1&Ctrlr_Code=BJASurv_id=2896dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BJIR61DT.zip&Tp=1&Ctrlr_Code=BJASurv_id=4206dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BJIR71DT.zip&Tp=1&Ctrlr_Code=BJASurv_id=4916dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BOIR01DT.zip&Tp=1&Ctrlr_Code=BOASurv_id=286dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BOIR31DT.zip&Tp=1&Ctrlr_Code=BOASurv_id=656dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BOIR3BDT.zip&Tp=1&Ctrlr_Code=BOASurv_id=986dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BOIR61DT.zip&Tp=1&Ctrlr_Code=BOASurv_id=2386dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BOIR51DT.zip&Tp=1&Ctrlr_Code=BOASurv_id=3196dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BRIR01DT.zip&Tp=1&Ctrlr_Code=BRASurv_id=26dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BRIR21DT.zip&Tp=1&Ctrlr_Code=BRASurv_id=406dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BRIR31DT.zip&Tp=1&Ctrlr_Code=BRASurv_id=856dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BRIR31DT.zip&Tp=1&Ctrlr_Code=BRASurv_id=1166dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BRIR31DT.zip&Tp=1&Ctrlr_Code=BRASurv_id=1166dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BRIR43DT.zip&Tp=1&Ctrlr_Code=BRASurv_id=2306dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BRIR62DT.zip&Tp=1&Ctrlr_Code=BRASurv_id=3296dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BUIR02DT.zip&Tp=1&Ctrlr_Code=BUASurv_id=166dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BUIR61DT.zip&Tp=1&Ctrlr_Code=BUASurv_id=2456dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=BUIR71DT.zip&Tp=1&Ctrlr_Code=BUASurv_id=4636dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=KHIR42DT.zip&Tp=1&Ctrlr_Code=KHASurv_id=1406dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=KHIR51DT.zip&Tp=1&Ctrlr_Code=KHASurv_id=2576dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=KHIR61DT.zip&Tp=1&Ctrlr_Code=KHASurv_id=3106dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=KHIR72DT.zip&Tp=1&Ctrlr_Code=KHASurv_id=4646dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=CHIR22DT.zip&Tp=1&Ctrlr_Code=CHASurv_id=386dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=CHIR31DT.zip&Tp=1&Ctrlr_Code=CHASurv_id=1016dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=CHIR44DT.zip&Tp=1&Ctrlr_Code=CHASurv_id=2326dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=CHIR61DT.zip&Tp=1&Ctrlr_Code=CHASurv_id=3376dm=1&dmode=nm
https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=CHIR71DT.zip&Tp=1&Ctrlr_Code=CHASurv_id=5116dm=1&dmode=nm
```

Copy and paste or import the list into your download manager. The Research Analyst for this project used 'Simple Mass Downloader'. Below are the instructions on how this setup works.

The DHS Program datasets download system allows for bulk downloading to assist those users who are approved for a large number of countries/datasets. To use the bulk downloading system, data users must first install a download manager, which, due to authentication requirements, MUST be an extension or a plugin to a browser. There are a number of download managers available for each of the major browsers. We had been recommending an extension called "Chrono Download Manager" for the Google Chrome browser but this extension is no longer available from the Chrome library of extensions. There is a new extension called "Simple Mass Downloader" that is now available and works in a similar manner. Follow these steps to install the "Simple Mass Downloader" for Chrome:

- Open Chrome browser and go to this link: <https://chrome.google.com/webstore/detail/simple-mass-downloader/abdkkegmcbiomijcobaodafighehffed?hl=en-US>
- Click on the "Add to Chrome" button.
- It will ask "Add Simple mass downloader?". click the "Add extension" button.
- The extension should automatically install and a page will display with general instructions and other information.
- Make sure to take note of the advice/warning in the "red box" about making sure the "ask where to save.." check box is not checked.
- There should now be a small blue down arrow button near the top right of the Chrome browser.
- Click on that and the Simple Mass Downloader interface should appear. If it appears then the extension was installed correctly.
- Click it again to close it.

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Login or Register for Datasets

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Model Datasets Available

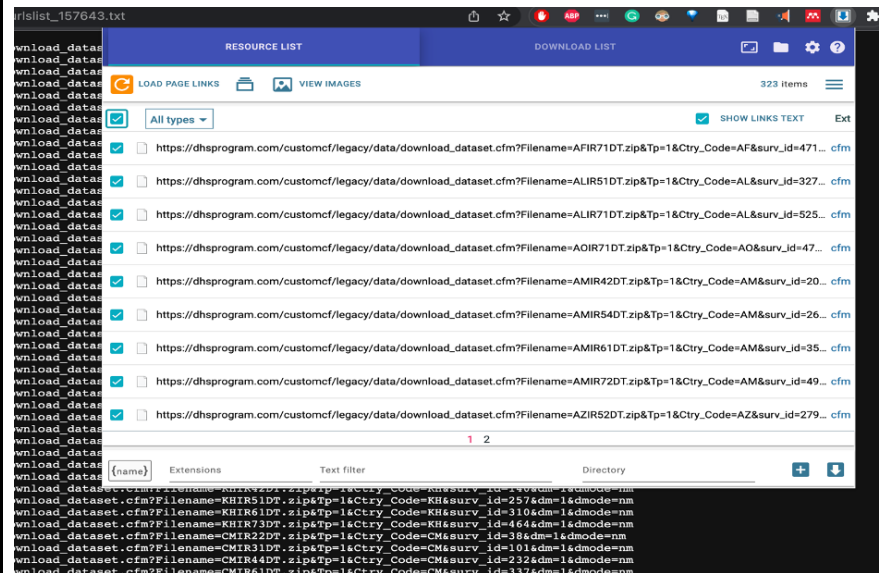
If you would like to try out some data files we have provided some example model datasets for which you do not need to register.

[Click here to download model dataset files.](#)

Now you need to login to your datasets account on the DHS Program website and follow these steps (these steps are for users of the "Simple Mass Downloader" extension):

- After login, select a project.
- Click on the "Download Manager" button.
- Select countries, file data type, and file format type.
- Click the "Build URL File list" button.
- Just above your selections, there will be a link that says "Text file with URLs".
- Click that link and a new tab should open with the list of URLs for the datasets from your selection.
- Click again on the blue down arrow button at the top right to bring up the Simple Mass Downloader interface.
- Click on the "Load Page Links" icon near the top left of the interface.
- That should load all the URL links on the page into the Simple Mass Downloader interface. (NOTE: you must have the browser tab open with the list of URLs for this to work)
- Click on the check box to the left of the "File Name" header. This will select all the files in the list.
- Click on white down arrow near the bottom right of the interface.
- The download process should start automatically.

Here is a sample image on how the chrome extension will look like and how to operate the mass downloader:



<p>Go to the DHS program website at thedhsprogram.com and register as a new user for data access</p>	<p>Login or Register for Datasets</p> <div> <p>New Users Register</p> <p>Before you can download datasets, you must register as a DHS data user. Dataset access is only granted for legitimate research purposes. Learn more about data restrictions, why we require registration, how to request access or view a list of available datasets.</p> <p>Please be aware that re-distribution of any DHS micro-level data, either directly or within any tool/dashboard, is not permitted.</p> <p>Register for Dataset Access</p> </div> <div> <p>Model Datasets Available</p> <p>If you would like to try out some data files we have provided some example model datasets for which you do not need to register.</p> <p>Click here to download model dataset files.</p> </div>
<p>After clicking the download button, each country level zipfile will start downloading. These need to be added to the raw dataset folder path here: [YOUR REPLICATION FOLDER]</p>	
<p>After downloading the zipfiles, proceed as follows:</p> <ul style="list-style-type: none"> ● Iteratively, select IR country data files ● Iteratively, clean relevant variables using the code provided to the left and in the do file "code/create_wyw_dhs" ● Iteratively, save ● Append all the data 	<p>STATA CODE TO CLEAN INDIVIDUAL DHS IR RECODE</p> <pre>// Keep selected variables: country code, year of // interview, age, wealth index, currently pregnant keep v000 v007 v012 v190 v213 v445 // Keep adults only drop if v012 < 18 // Drop pregnant women drop if v213 == 1 // Generate obesity variable gen BMI30 = v445 >= 30 & !missing(v445) // Extract first two digits from v000 as country code gen str2 countrycode2 = substr(v000, 1, 2)</pre>

Experimental scripts

SurveyCTO files used to generate the surveys are in folder “Instruments”. These work as data dictionaries for the Beliefs Experiment, Credit Experiment, Laypeople Survey, and MTurk Survey.

Computational requirements

Software Requirements

All code was run using Stata 17. The exact versions of the Stata packages are automatically installed by “install_packages.do”. These packages are:

- estout
- binscatter
- estout
- cibar
- reghdfe
- moremata
- dataout
- outreg
- outreg2
- tabout
- blindschemes
- fsum
- ritest
- ftools
- gtools
- coefplot

Memory and Runtime Requirements

Using a Macbook Pro 2021 with an Apple M1 Pro and processor and 16GB of RAM, the analysis was completed in less than 2.5 hours.

The vast majority of the time was devoted to running the analysis in script appendix_figures.do (specifically, the randomization inference exercise) and appendix_tables.do, specifically the randomization inference P-Values for Table A4. Thus, a mechanical way to reduce the running time is to edit the "reps" option at line 77 in file ./code/wyw_appendix_tables.do, and set it to a number smaller than 5,000. For example, with reps set to 1,000 the running time was 27 minutes.

Description of programs/code

Code for data cleaning and analysis is provided as part of the replication package.

Programs in code will extract and reformat all datasets referenced above, as well as generate all tables and figures in the main body, appendix, and online appendix of the article. The file `"/code/_main_replication_wyw.do"` will run them all.

Specifically, `"/code/_main_replication_wyw.do"` will

1. Set the project directories
2. Install the necessary packages from `"/code/install_packages.do"`
3. Extract and reformat all datasets referenced above, and save them in folder "input"
4. Replicate all figures and save them in folder "output/figures"
5. Replicate all tables and save them in folder "output/tables"

Output files are called appropriate names (`_table5_XX.tex`, `fig1_XX.pdf`) and should be easy to correlate with the manuscript.

The provided code replicates all the figures and tables in the paper.

List of Figures and Tables

Figures				
Name	Output Filename in output/figures	Code Filename	Line number	Source Dataset
Figure 1A	n.a.	code/wyw_figures.do	17	Not available
Figure 1B	n.a.	code/wyw_figures.do	81	Not available
Figure 2A	fig2A_bar_bm_info_wealth.pdf	code/wyw_figures.do	98	./input/wyw_beliefs_main.dta
Figure 2B	fig2B_belief1_all.pdf	code/wyw_figures.do	111	./input/wyw_beliefs_main.dta
Figure 3A	fig3_gr_barmargins_credit.pdf	code/wyw_figures.do	158	./input/wyw_credit.dta
Figure 3B	fig3_gr_barmargins_meet.pdf	code/wyw_figures.do	158	./input/wyw_credit.dta
Figure 3C	fig3_gr_barmargins_prod.pdf	code/wyw_figures.do	158	./input/wyw_credit.dta
Figure 3D	fig3_gr_barmargins_qualify.pdf	code/wyw_figures.do	158	./input/wyw_credit.dta

Figure 4	fig4_gr_bar_loanofficersexplicit.pdf	code/wyw_figures.do	216	./input/wyw_credit.dta
Figure 5	fig5_gr_coefplot_laypredictions_main.pdf	code/wyw_figures.do	242	./input/wyw_beliefs_guessappratings.dta; ./input/wyw_credit.dta
Figure 6	fig6_gr_hist_genpopbeliefsdistribution.pdf	code/wyw_figures.do	414	./input/wyw_laypeople_sample2.dta
Figure A1	figA1_portraitsbmidistribution.pdf	code/wyw_appendix_figures.do	18	./input/wyw_credit.dta
Figure A2	figA2_hist_whygain.pdf	code/wyw_appendix_figures.do	32	./input/wyw_laypeople_sample2.dta
Figure G5A	figG5_hist_ri_z_credit.pdf	code/wyw_appendix_figures.do	43	./input/wyw_credit.dta
Figure G5B	figG5_hist_ri_z_meet.pdf	code/wyw_appendix_figures.do	43	./input/wyw_credit.dta
Figure G5C	figG5_hist_ri_z_prod.pdf	code/wyw_appendix_figures.do	43	./input/wyw_credit.dta
Figure G5D	figG5_hist_ri_z_qualify.pdf	code/wyw_appendix_figures.do	43	./input/wyw_credit.dta
Figure G6	figG6_beliefs_malawi.pdf	code/wyw_appendix_figures.do	111	./input/wyw_malawi.dta
Figure G7	figG7_belief_mturk.pdf	code/wyw_appendix_figures.do	156	./rawdata/wyw_mturk_clean.dta
Figure G8A	figG8a_laypredictions_otherchrs_referral.pdf	code/wyw_appendix_figures.do	204	./input/wyw_beliefs_guessappratings.dta; ./input/wyw_credit.dta
Figure G8B	figG8b_laypredictions_otherchrs_approval.pdf	code/wyw_appendix_figures.do	204	./input/wyw_beliefs_guessappratings.dta; ./input/wyw_credit.dta
Tables				
Name	Output Filename in output/tables/	Code Filename		Source Dataset
Table 1	_table1_summary_stats.tex	code/wyw_tables.do	14	./input/wyw_summarystats.dta
Table 2	_table2_mainbeliefs.tex	code/wyw_tables.do	118	./input/wyw_beliefs_main.dta
Table 3	_table3_obesitypremium.tex	code/wyw_tables.do	158	./input/wyw_credit.dta

Table 4	_table4_obesitypremiumbytype.tex	code/wyw_tables.do	197	./input/wyw_credit.dta
Table A1	_tableA1_balance_appchr.tex	code/wyw_appendix_table s.do	23	./input/wyw_credit.dta
Table A2	_tableA2_robustnessattention.tex	code/wyw_appendix_table s.do	116	./input/wyw_credit.dta
Table A3	_tableA3_unpscorrelation.tex	code/wyw_appendix_table s.do	146	./input/wyw_unps_credit_bmi.dta
Table G2	_tableG2_heterogeneitywealthsignal .tex	code/wyw_appendix_table s.do	167	./input/wyw_beliefs_main.dta
Table G4	_tableG4_robustnessorder.tex	code/wyw_appendix_table s.do	185	./input/wyw_credit.dta
Table G5	_tableG5_earningspremium.tex	code/wyw_appendix_table s.do	203	./input/wyw_credit.dta
Table G6	_tableG6_robustnessarm.tex	code/wyw_appendix_table s.do	225	./input/wyw_credit.dta
Table G7	_tableG7_likelihoodratio.tex	code/wyw_appendix_table s.do	246	./input/wyw_credit.dta
Table G8	_tableG8_robustnessmenvsmen.tex	code/wyw_appendix_table s.do	293	./input/wyw_credit.dta
Table G9	_tableG9_heteroloanoffchrs.tex	code/wyw_appendix_table s.do	316	./input/wyw_credit.dta
Table G10	_tableG10_loanoffbeliefs_r2analysis.tex	code/wyw_appendix_table s.do	355	./input/wyw_laypeople_sample2
Table G11	_tableG11_sumstatlaypeople sample2.tex	code/wyw_appendix_table s.do	469	./input/wyw_laypeople_sample2
Table G12	_tableG12_dataout_gain_lose.tex	code/wyw_appendix_table s.do	487	./input/wyw_laypeople_sample2

Instructions to Replicators

To replicate the figures and tables based on the publicly available data (namely all figures and tables, except Figure 1).

1. Move file "randomization_inference.ado" in your personal Stata ado folder.
2. Edit `./code/_main_replication_wyw.do` at line 25 to adjust the path to that where the project is located in your computer.
3. Edit `./code/_main_replication_wyw.do` at line 33 to set your ado path.
4. Run `./code/_main_replication_wyw.do` to run all the Stata code in sequence.

To replicate all the figures and tables, including Figure 1:

1. Download and build DHS data following the instructions above
2. Open `./code/wyw_figures.do` and uncomment lines 15 to 94
3. Edit `./code/_main_replication_wyw.do` at line 25 to adjust the path to that where the project is located in your computer.
4. Edit `./code/_main_replication_wyw.do` at line 33 to set your ado path.
5. Edit `./code/_main_replication_wyw.do` to uncomment line 76 and 77 to let the program reformat the DHS database.
6. Run `./code/_main_replication_wyw.do` to run all the Stata code in sequence.

The code outputs all tables and figures in the paper, including the appendix and the online appendix, into the folders `./output/tables` and `./output/figures` respectively.

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