Methods for Health Disparities Workshop: Some Preliminaries

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Navigating the Day

- Structure for Today

- Project 1: Counterfactual Disparity Measures in a Simple Setting

- Project 2: Counterfactual Disparity Measure in the NHEFS

- Project 3: Counterfactual Disparity Measure in the NUMOM2b Study

Structure for Today

- Starting at 8:30AM, wrapping up at 5:30PM

  - Several breaks throughout

- We'll start with a quick review

- We will carry out three projects

  - Each project will start with a brief "lecture style" overview with slides
  - Next, we will split up into groups and start setting up project folders and code writing

Project Outline

- Project 1

  - Simple setting with binary exposure, mediator, confounders, continuous outcome
  - Will enable us to become familiar with overall scope of tasks

- Project 2

  - Counterfactual Disparity Measure in the NHEFS
  - Binary exposure, binary outcome, three category mediator
  - Confounders: binary, categorical, continuous

- Project 3:

  - Counterfactual Disparity Measure in the NUMOM2B Study
  - More complex exposure and mediator

Tools Covered

- We will cover several concepts throughout the day:

  - Data Import, and Wrangling
  - Exploratory Analyses
  - Regression Modeling
  - Counterfactual Disparity Measures
  - Bootstrapping
  - Robust Variance Estimation

- All of these will be covered through R code

- This will be a heavily applied session

Goals

- The end goal of each project will be to write two R programs:

  - A data management file that yields an analytic dataset
  - A main analysis file that yields a table of result

- These R programs should serve as your references and starting points in future work

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