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Introduction to Health Data Science

Proposal

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1. *Identify and briefly describe the health care problem you want to highlight, and the target audience.*

- Research question: In Scotland, how do rates of depression symptoms in adults vary by sex and by deprivation status?
- Target audience: policymakers.

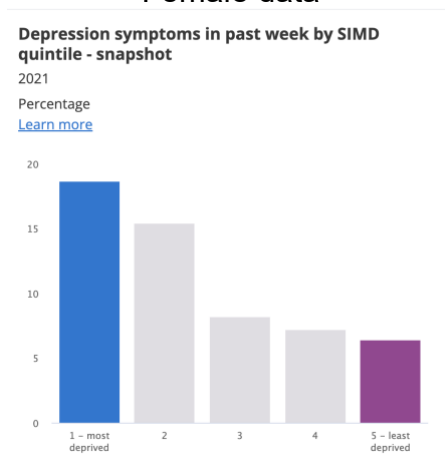
2. *Identify and briefly describe the data you need.*

- Data source: the [Scottish Public Health Observatory](#)
- Dataset: inequalities dataset
 - Area: Scotland
 - Indicator: depression symptoms in past week
 - Time: latest year = 2021
 - Subgroups: by SIMD quintile
 - In males
 - In females

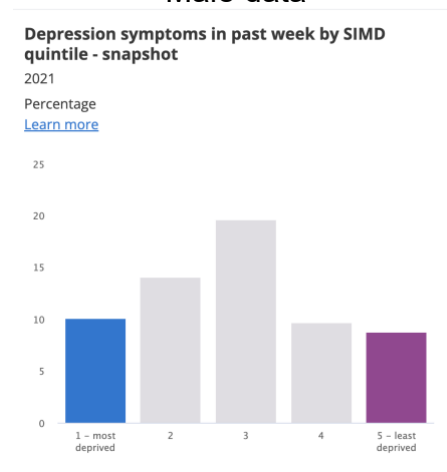
3. *Decide on the appropriate data visualisation to tell your story, and briefly describe it. You can describe it with words, or make a sketch.*

Below, I have included bar charts of the data from the [Scottish Public Health Observatory](#) website.

Female data

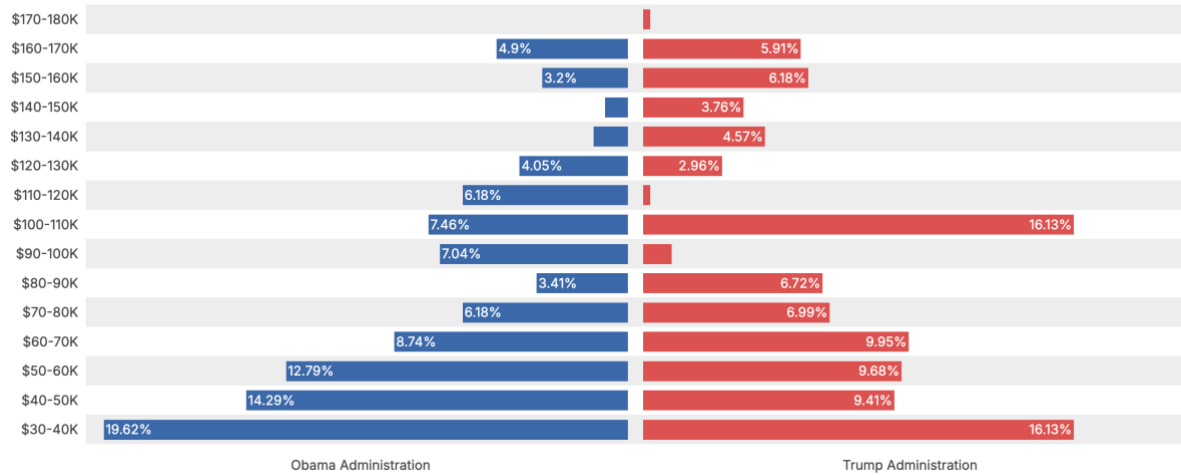


Male data



I propose to present the data in a single, diverging bar chart. I think this will emphasise the differences across SIMD quintiles and between sexes. The y-axis will be the SIMD quintiles (1 to 5), and the x-axis will be the % of people with depression symptoms in the past week, with female data presented on the left and male data presented on the right. I have included an illustrative example from the [Graphica website](#) below.

White House staff salaries



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