

How did local health infrastructure and socio-political factors within different states and counties in the United States affect the disparities in COVID-19 outcomes, and what lessons can be learned for more targeted public health preparedness and response strategies in future pandemics?*

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First sentence. Second sentence. Third sentence. Fourth sentence.

Table of contents

1	Introduction	2
2	Data	2
2.1	Source	2
2.2	Methodology	2
2.3	Data Measurement	2
2.4	Data cleaning	2
3	Results	2
4	Discussion	3
4.1	Influence of political polarization on adherence to health guidelines.	3

*Code and data are available at: <https://github.com/hannahyu07/US-Covid-Analysis.git>

4.2	Impact of government transparency and consistent communication on public trust.	3
4.3	Role of social vulnerabilities and healthcare access disparities in pandemic impact.	3
4.4	Strategies for improving real-time data collection and sharing for public health decisions.	3
4.5	Weaknesses and next steps	3
References		4

1 Introduction

This reproduction was performed after a replication on the Social Science Reproduction platform: [link here](#)

2 Data

2.1 Source

The datasets utilized throughout this paper was obtained from the **original paper** (Nuzzo and Ledesma 2023).

2.2 Methodology

R (R Core Team 2022) was the language and enviroment used for the bulk of this analysis, alongside `tidyverse` (Wickham et al. 2019), `sf` (Pebesma 2018), `readxl` (Wickham and Bryan 2023), `knitr` (Xie 2014), `janitor` (Firke 2023), `lubridate` (Grolemund and Wickham 2011), `dplyr` (Wickham et al. 2023), `data.table` (Barrett et al. 2024), `RColorBrewer` (Neuwirth 2022), `ggpubr` (Kassambara 2023), `ggplot2` (Wickham 2016), `here` (Müller 2020), and `scales` (Wickham, Pedersen, and Seidel 2023).

2.3 Data Measurement

2.4 Data cleaning

3 Results

Our results are summarized in Figure [1](#).

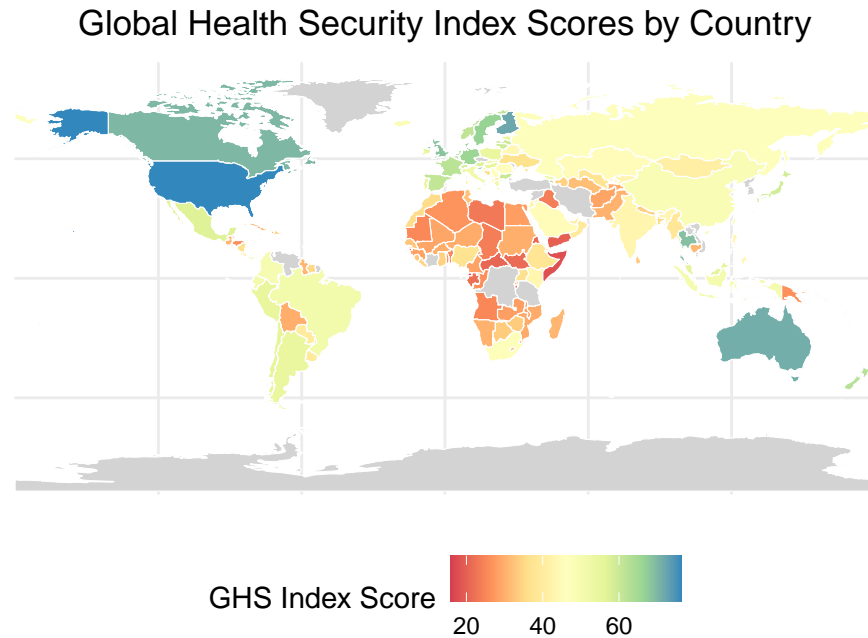


Figure 1: Global Health Security Index Scores by Country

4 Discussion

- 4.1 Influence of political polarization on adherence to health guidelines.
- 4.2 Impact of government transparency and consistent communication on public trust.
- 4.3 Role of social vulnerabilities and healthcare access disparities in pandemic impact.
- 4.4 Strategies for improving real-time data collection and sharing for public health decisions.
- 4.5 Weaknesses and next steps

Weaknesses and next steps should also be included.

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