Analyzing the database "National Plan and Provider Enumeration System (NPPES)"

TECHNICAL REPORT

1. Overview

We mined and performed analytics on a large publicly available database. The National Plan and Provider Enumeration System (NPPES) database report the status of the US healthcare providers.
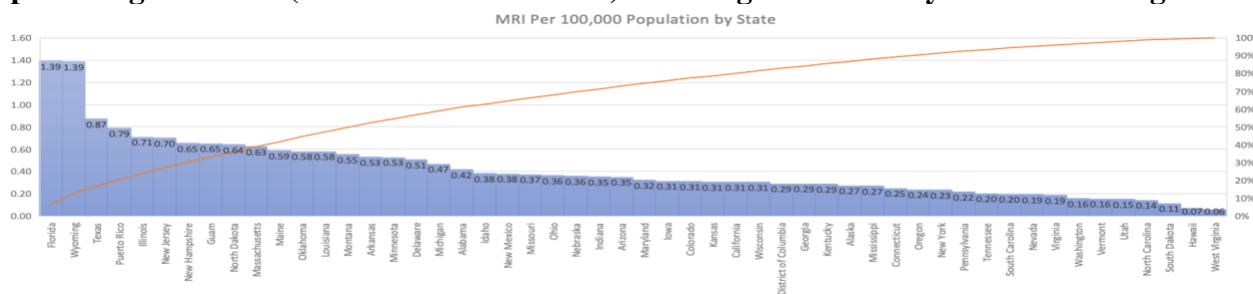
2. Methodology

Data was downloaded from The National Plan and Provider Enumeration System (NPPES) database reports on the 23rd of January 2022.
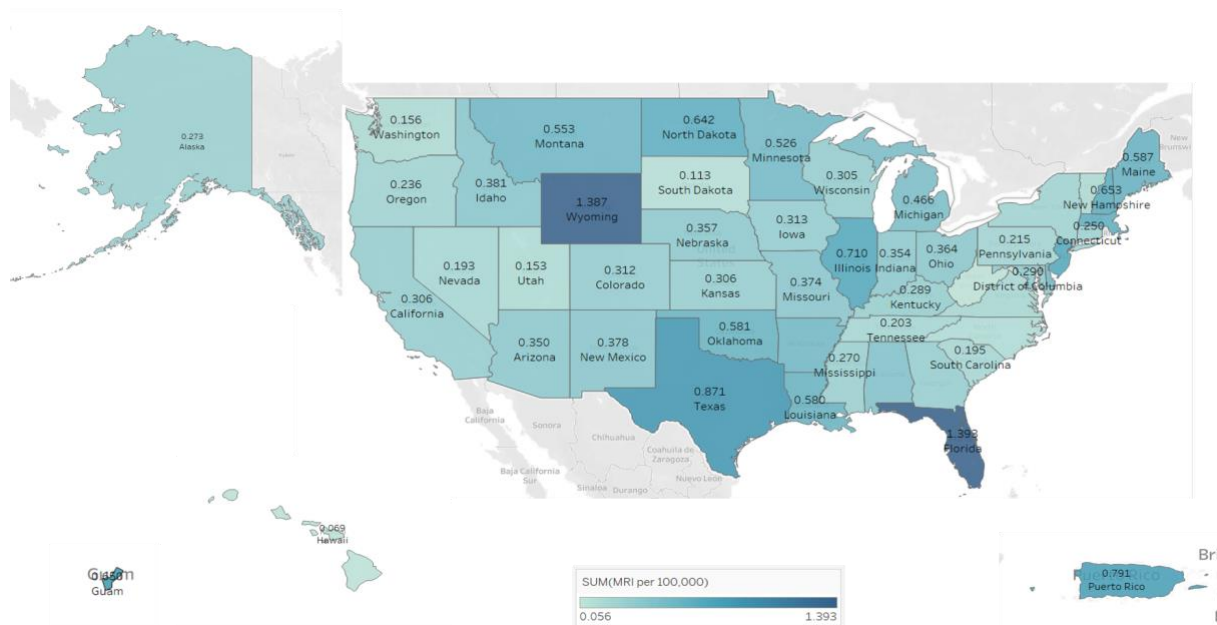STATA SE Version 17 was the statistical package used for analyzing the data.
Excel and Tableau were used for creating the visuals.

3. Data Analysis

Figure 1. Pareto Chart showing the significant few states contributing to the high-frequency percentage of MRIs (On the left of the chart) and insignificant many states on the right of the chart.

Figure 5. Heat map showing the contribution of Florida and Wyoming. Title: MRI per 100,000 population by state in the U.S.

Florida and Wyoming are the highest states and in exploring census data for geriatric populations in the USA it was found that Florida has the second-highest geriatric population in the USA while Wyoming has the second-lowest geriatric population in the USA, attributing the MRIs is to geriatric populations is not feasible and requires further research.

4.   References

Shanosky, N., McDermott, D., Kurani, N. "How do U.S. healthcare sources compare to other countries?". *Peterson-KFF Health System Tracker,* Aug 12, 2020.

Stewart, C. "Number of magnetic resonance imaging (MRI) units in selected countries as of 2019 (per million population)". *Statista*, Jul 5, 2021.