

Patient Readmission Analysis

PRESENTED BY KEVIN RUPE

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Kevin Rupe

- Bachelor of Science in Mathematics
- Employed at Windstream Communications for 24 years working on multiple projects dedicated to data analysis and network optimization
- Seeking Master of Science in Data Analytics



Overview

- 10,000 observations
- All 50 states, DC, and Puerto Rico
- Male, Female, Nonbinary genders
- Initial Hospital Admission
- Patient Medical Conditions
- Ages of patients
- Area where patient lives
- Patient's medical complication risk
- Patient's marital status
- Medical services received during initial admin
- Total charges from hospital
- Patient satisfaction survey results



CDC is the nation's leading science-based, data-driven, service organization that protects the public's health.



National Health and Nutrition Examination Survey

Survey is conducted every 2 years. This dataset is from 2013-2014.

Demographic data
age, gender, marital status, race, etc.

Dietary data
foods, nutrients, ingredients, and supplements

Examination data
blood pressure, body measurements, x-ray measures, etc.

Laboratory data
specific measurements obtained from bodily fluids

Questionnaire data
patient answers to personal medical questions



Top 10 states mostly
comprised of NE
United States



Over half of all
patients were initially
admitted via the ER.

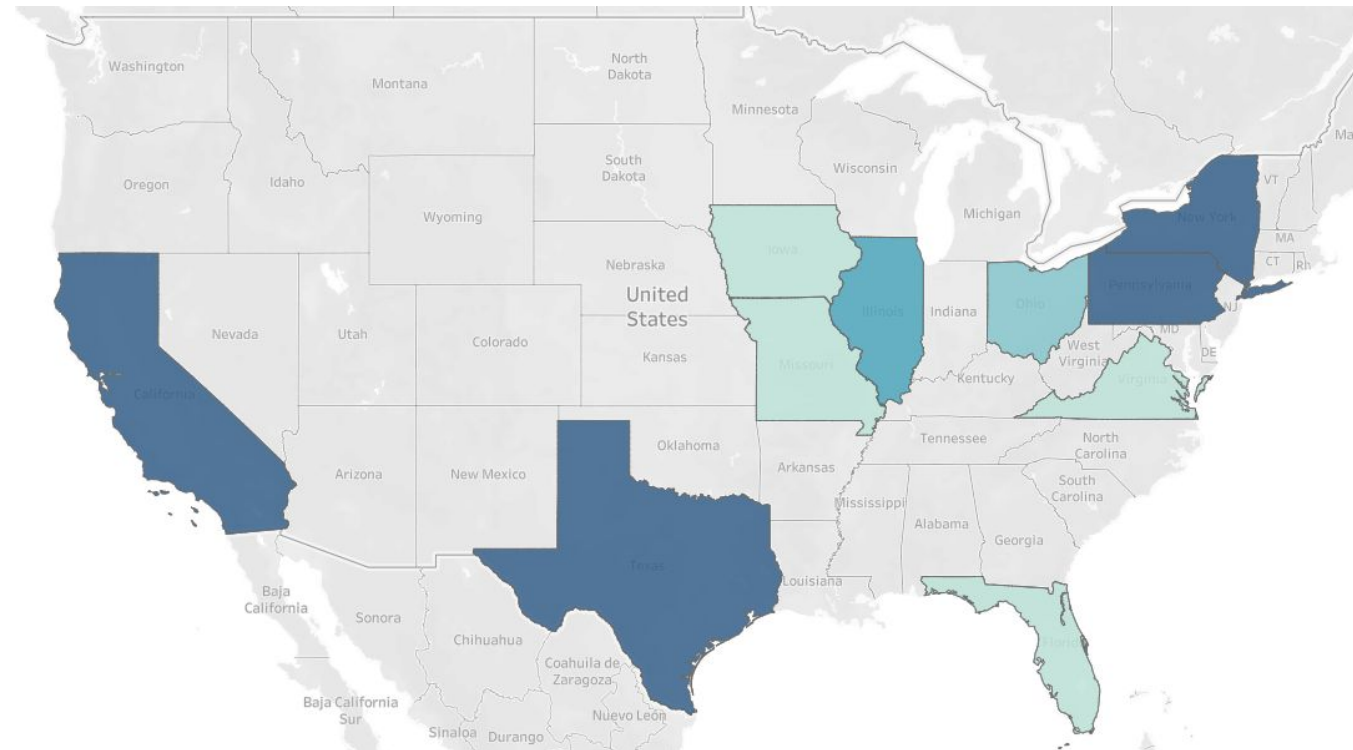
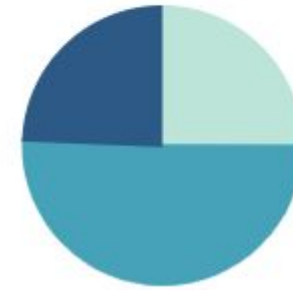


4 out of 10 patients
are 60+ years old.

WGU Key Results

WGU Visualizations

Elective Admission
Emergency Admission
Observation Admission



National Survey Key Results



Half of all patients surveyed are obese or overweight.

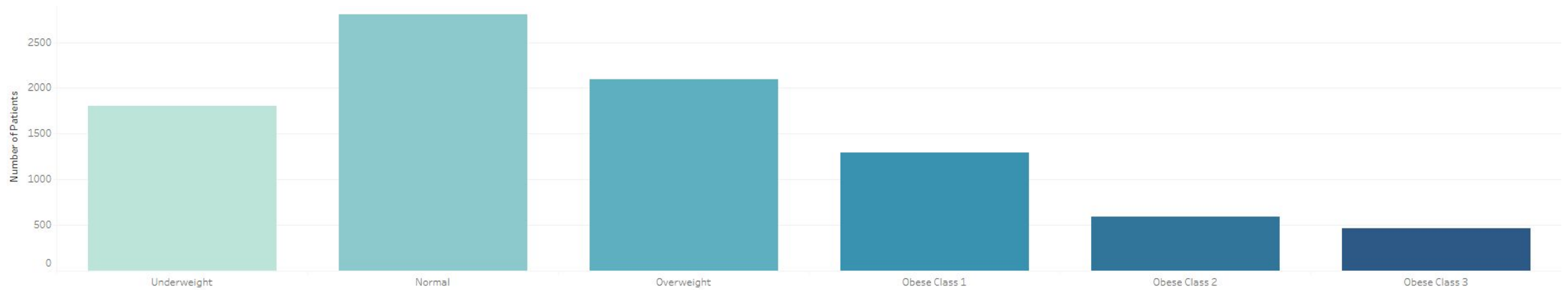
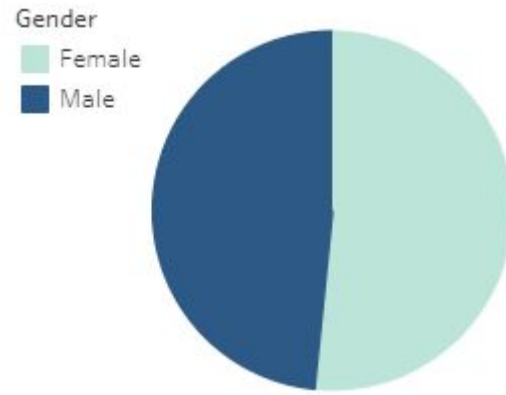


In adults, 50-year-olds are in the best physical shape.



There are 4% more females that are overweight than males.

National Survey Key Results





What does this tell us?

What actionable insights can we derive from this analysis?

What recommendations do we have for institutions involved?



Call to Action

- Patients in the northeastern United States are possibly overweight due to poor weather conditions, therefore, access to indoor exercise facilities and programs could improve their overall health.
- Since over half of readmissions were initially admitted via the Emergency Room, a task force should be created to look for ways to provide extra care for these patients to reduce the readmission rate.
- Learn from the 50-year-olds what has worked for them to be more physically fit. Incorporate initiatives to teach others from their success.