

Visualization of Quality Metrics: An Interactive Dashboard



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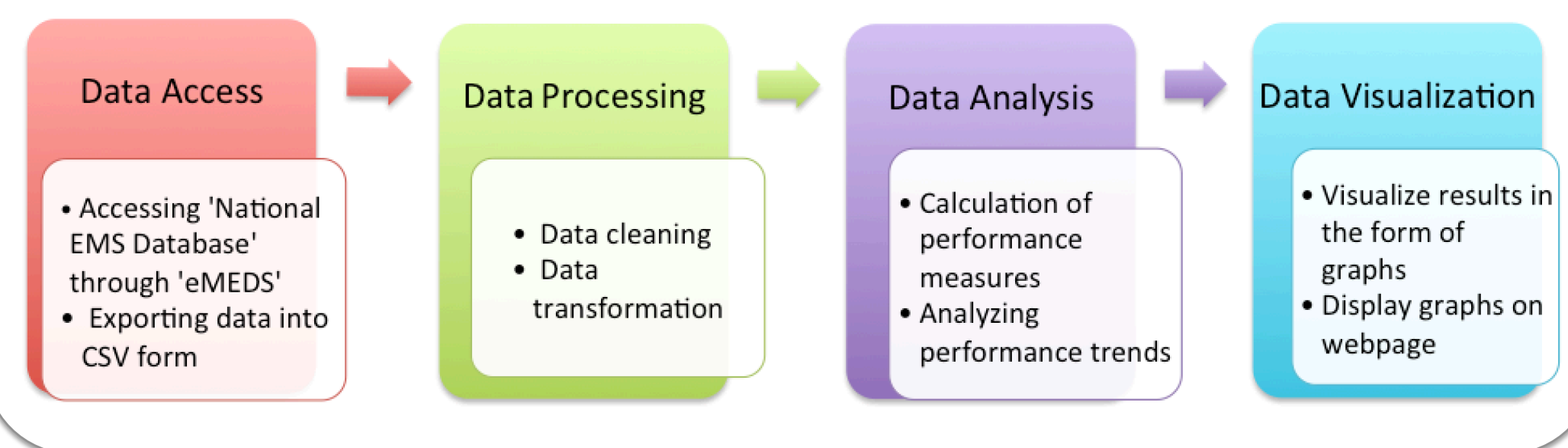
Abstract

- The Emergency Medical Services (EMS) Division at the Anne Arundel County Fire Department provides emergency and non emergency medical services for more than 500,000 county residents
- EMS agencies aim to match their performance to national standardized core measures to streamline their processes efficiently

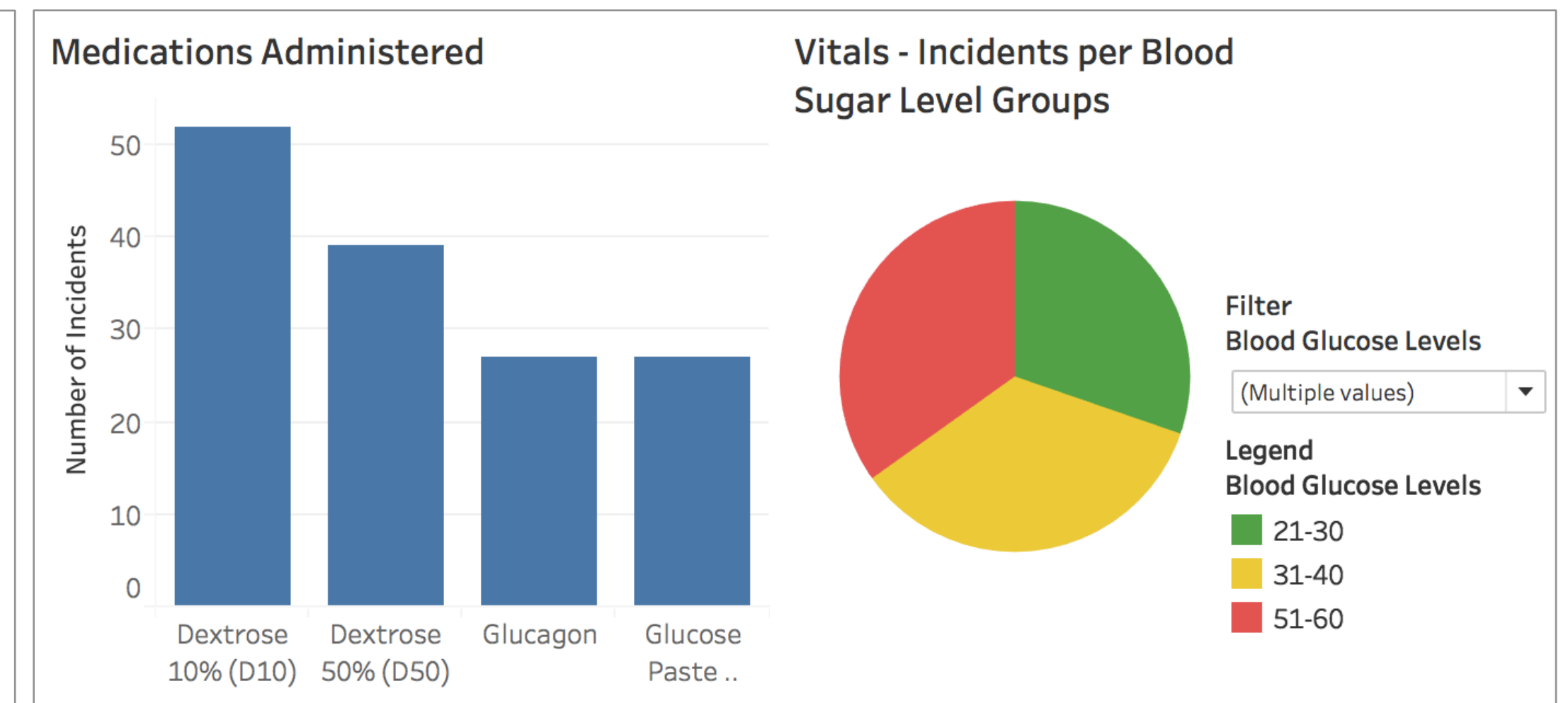
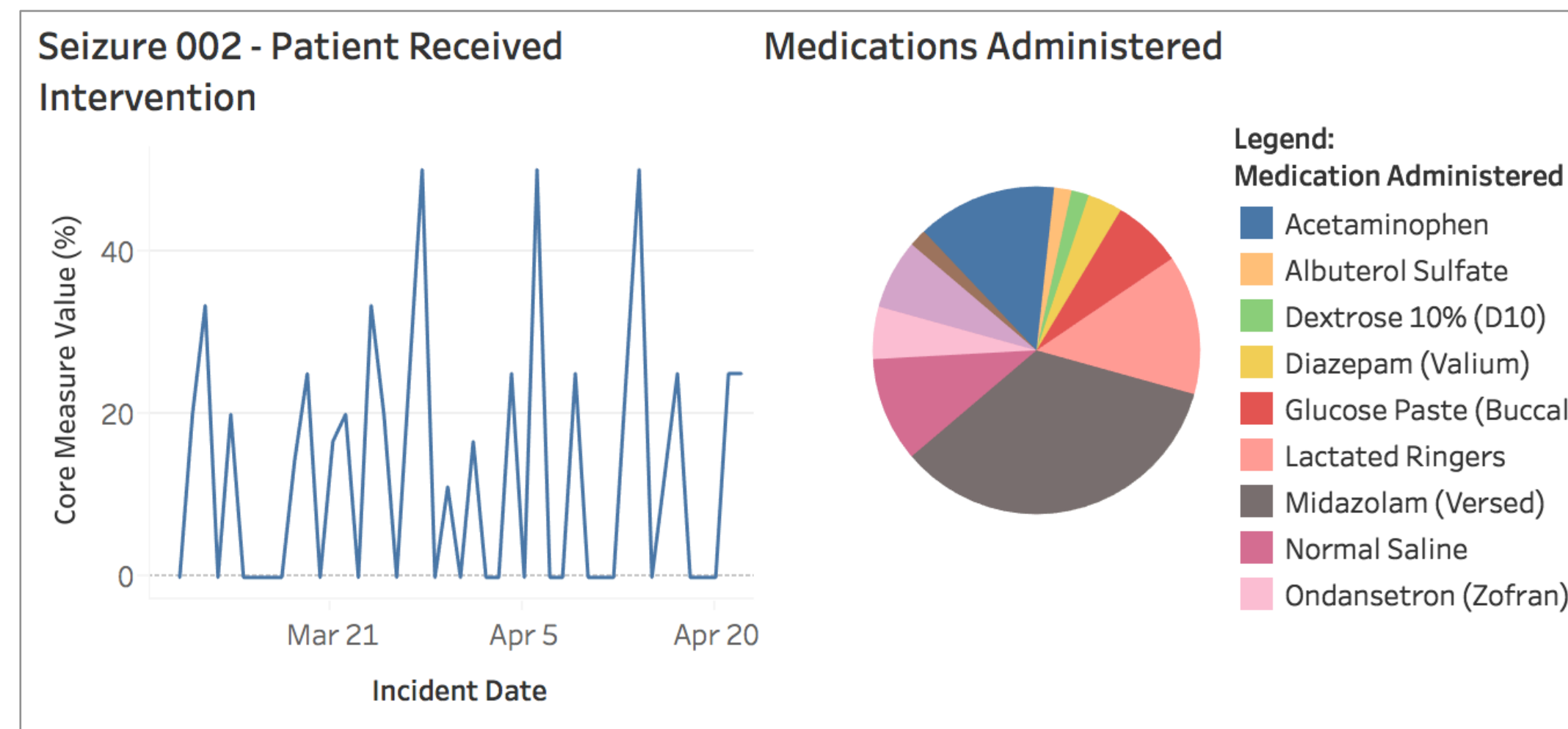
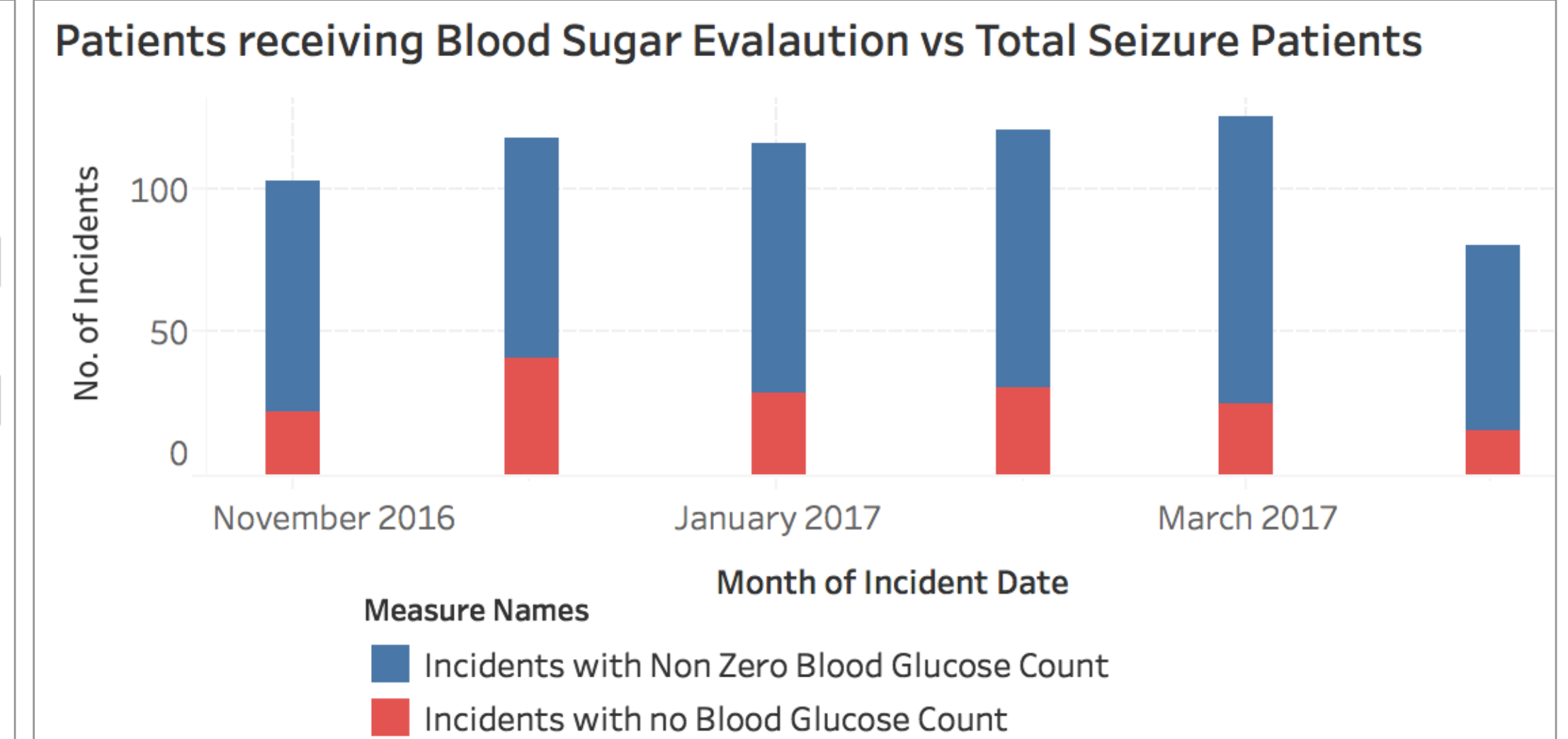
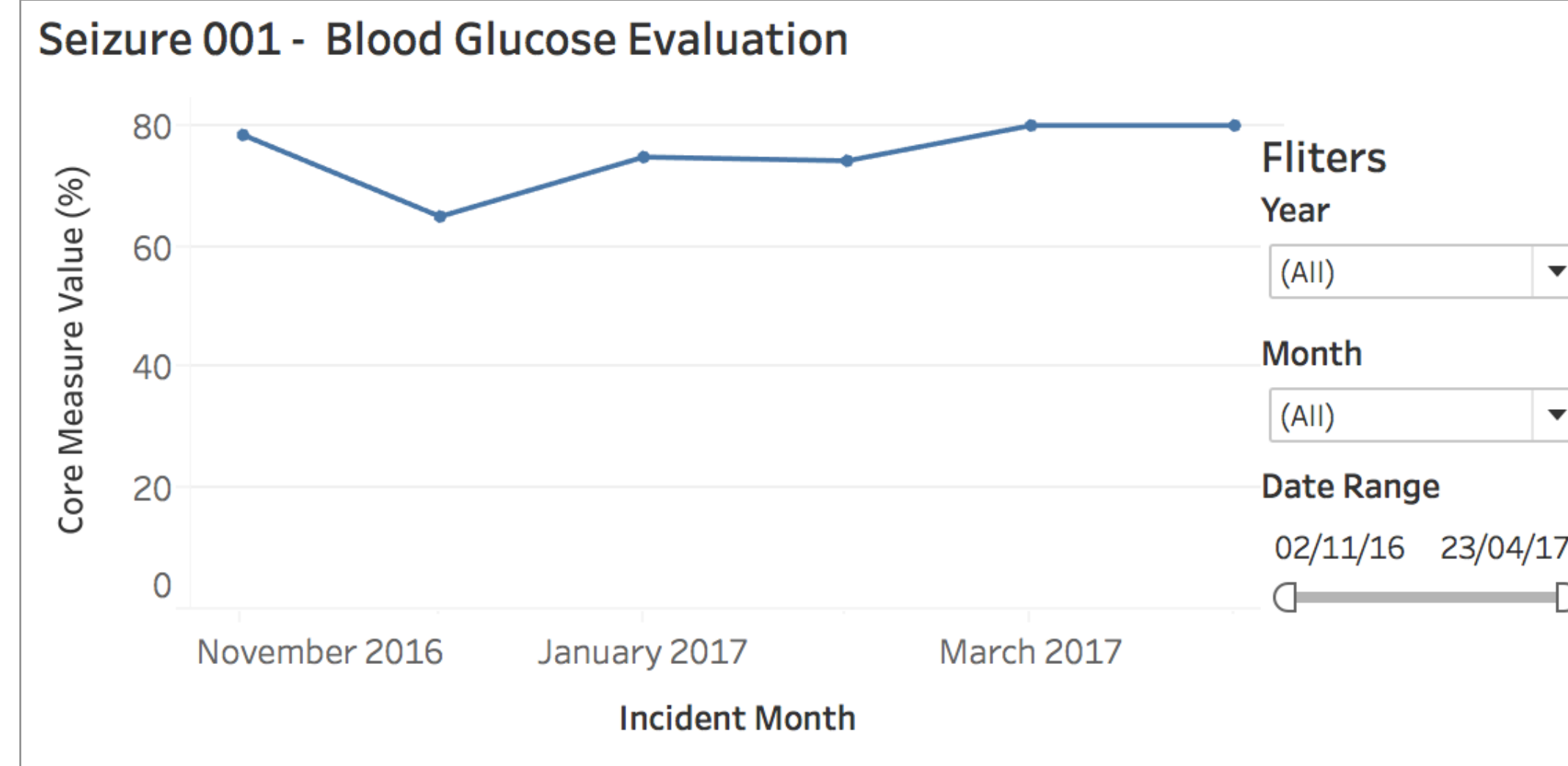
Project Scope

- Developing an online tool for analysis and visualization of the EMS data.
- Building a dynamic interactive dashboard for visualizations of the core measures to help the department analyze and monitor their performance

Methodology



Technologies Used



Successes

- Successfully implemented visualizations of core measures in the form an interactive dashboard
- Effectively learned D3.js and its application in data visualization
- Gained experience in various data manipulation and analysis techniques

Challenges

- Acquiring eMEDS data in a timely manner from the county as they had to scrub confidential data
- Interpreting the scrubbed medical data
- Trying to learn the different web development technologies while keeping with suggested timeline