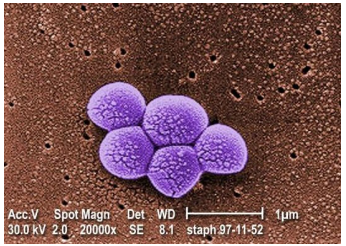
Visualising Hospital Associated Infections

Introduction

Hospital associated infection typically result in thousands of deaths each year and billions of dollars in added costs to the U.S. healthcare system[1]. The most common categories of these infections are:

- Central line-associated bloodstream infections (CLABSIs)
- Catheter-associated Urinary Tract Infections (CAUTI)
- Surgical Site Infection (SSI)
- Methicillin-resistant Staphylococcus aureus (MRSA)



[1] http://www.cdc.gov/HAI/infectionTypes.html

Dataset

The Healthcare-Associated Infection (HAI) dataset is provided by the Centers for Disease Control and Prevention (CDC) and contains information on infections that occur while the patient is in the hospital. The goal of this data is to help hospitals prevent such infections by implementing recommended infection control steps.

It consist of about 222,000 rows of data for hospital throughout the US and its territories gathered between 2014 and 2015. Up to 48 different infection measurements were done per hospital.

Features of HospiView

1. Streamlines the dataset so that only hospitals who reported data for the reporting period is presented.
2. Consolidate the various infection measurements into 6 categories to make it easy for users to understand.
3. Allow both a State and hospital level view of infection ratings.
4. Allow for rapid visual comparisons of hospitals in different States to be easily done.

Next Steps

- Improve visuals by implementing a more interactive map and better plots
- Add data for previous years
- Add support the ability to use offline