

Final Presentation

- Data Creatives

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Agenda

- ❑ About the Dataset
- ❑ Research Questions
- ❑ Why is it important ?!
- ❑ Limitations of the Data
- ❑ Data Manipulation
- ❑ Data Interpretation
- ❑ Results
- ❑ Conclusion

About the Dataset

- We are using the Dataset showing the Medicare Spending per beneficiary in the year 2015.

[https://github.com/vnikesh/ISQA-8086-Assignment/blob/master/Assignment-1/2%20-%20Medicare Hospital Spending by Claim.csv](https://github.com/vnikesh/ISQA-8086-Assignment/blob/master/Assignment-1/2%20-%20Medicare%20Hospital%20Spending%20by%20Claim.csv)

Research Questions that are addressed:

We addressed the following research questions:

- On which claim type did all the hospitals across the US have spent more and also for which period type?
- What is the amount spent in each state and who are the highest and lowest claim states?
- Which is the leading hospital in terms of spending based on the US zones and what are the differences in spending by hospital on zone level?

Why is it important?!

- Pattern of hospital spending across the country affect the medicaid policy.
- Information of hospital spending across the country is related to health insurance.

Limitations of the Dataset

- The data is secondary data from averaging hospital spending
- The data limited to the average of hospital spending for the year of 2015
- The supplementary data for supporting our finding, for example population density.

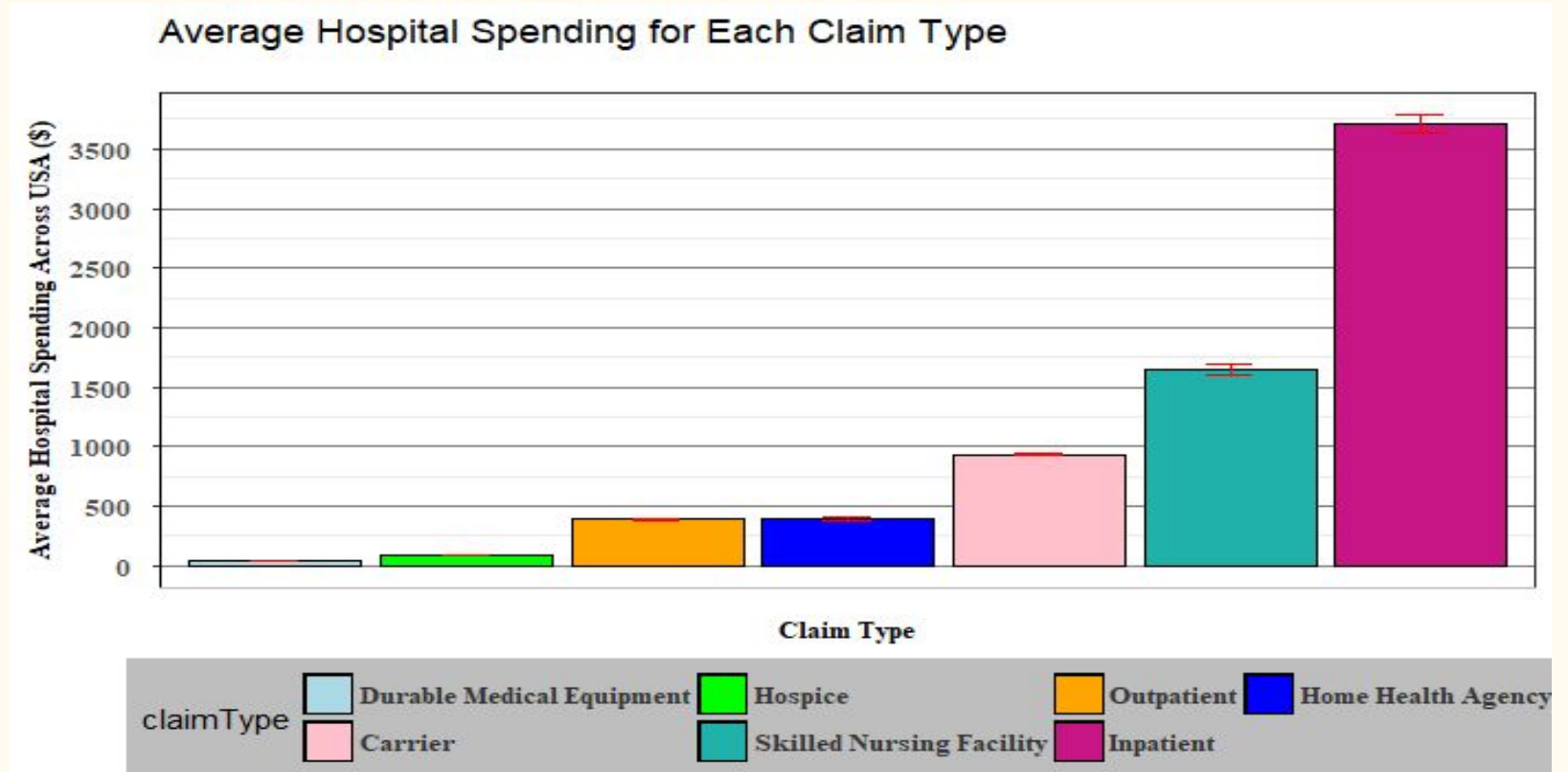
Data Manipulation

- Start date and end date were removed because they are same across all the rows.
- Symbols like \$ and % were changed to changed to numbers.
- Abbreviated column names like period data, claim type and hospital for better representation on the graph.
- Removed unnecessary rows with the value 0.
- R packages and Rstudio was used to analyses and generate plot

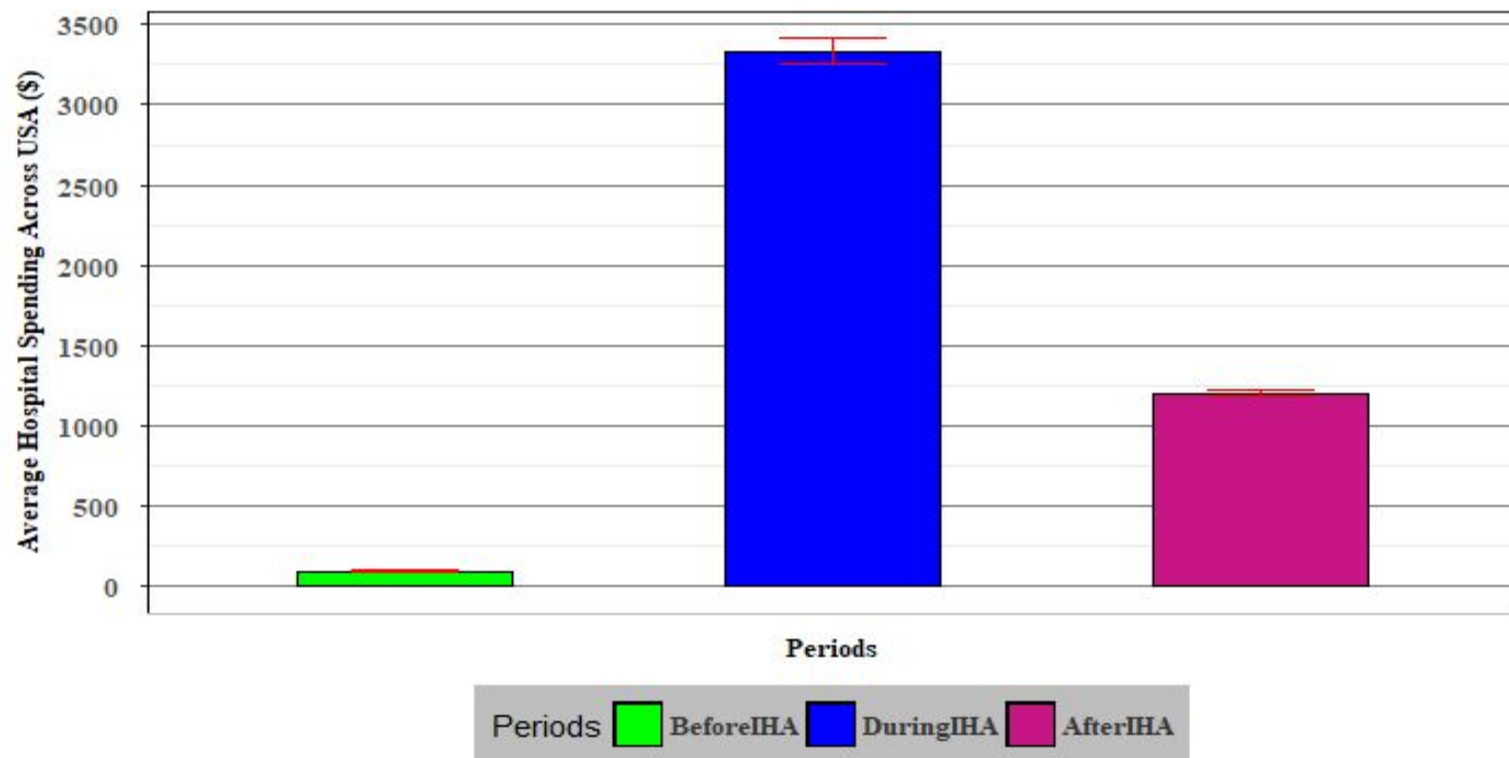
Data Interpretation

- The data from the dataset represented average spending of each hospital and the breakdown is done by claim type.
- The data was listed for the year 2015.
- We are displaying the state and hospital with high spending over the different claim type.

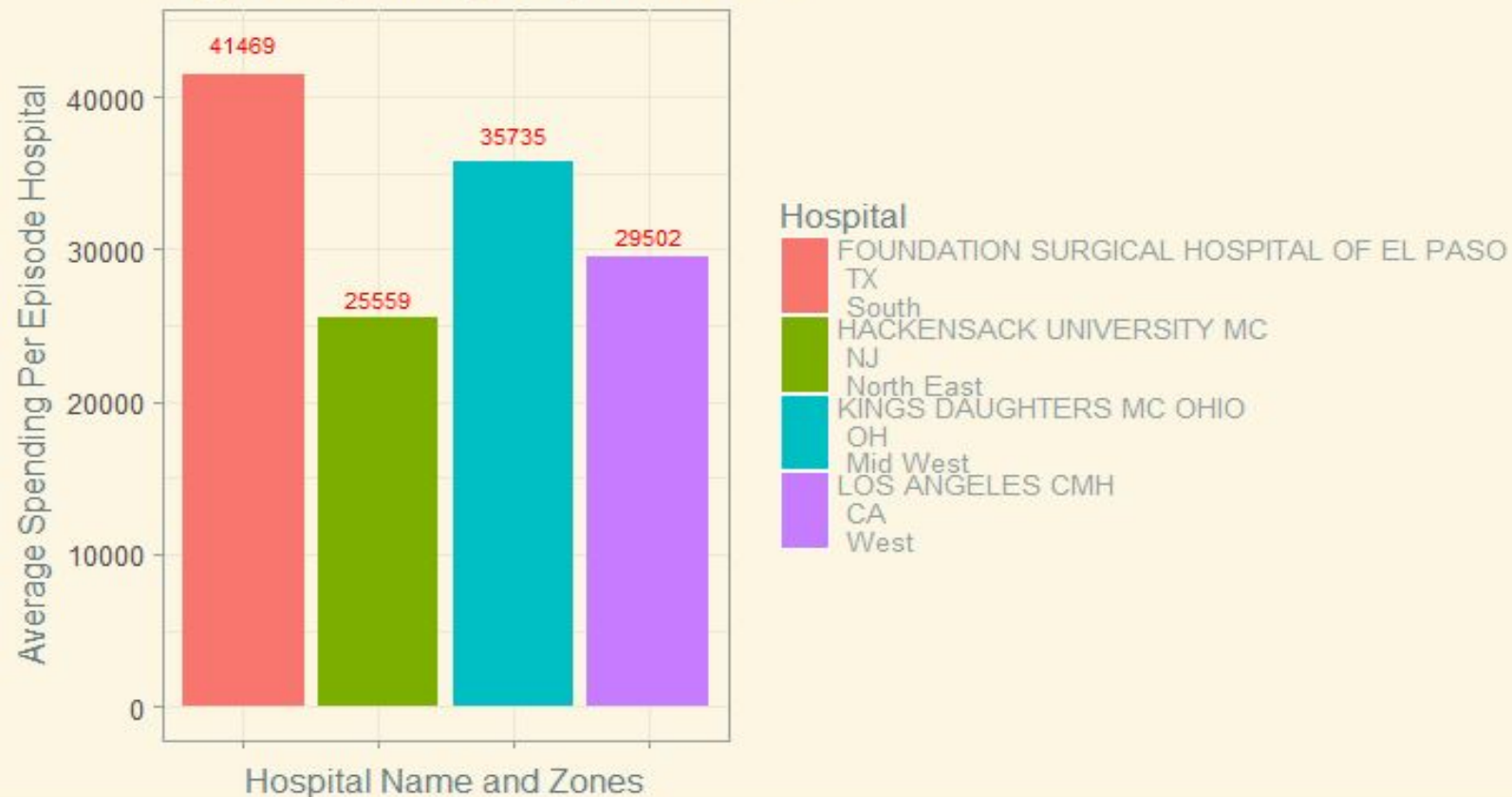
Results

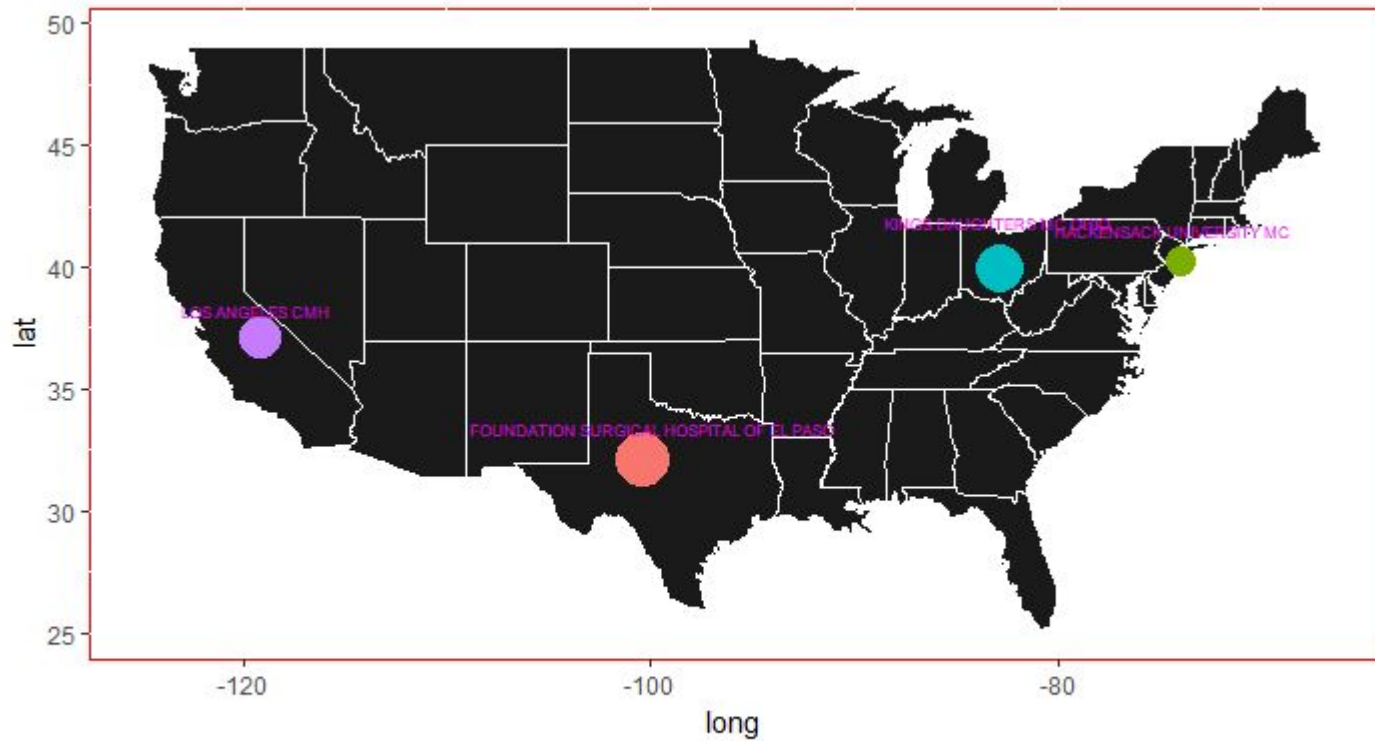


Average Hospital Spending for each period



Highest spending hospital in USA





Hospital



FOUNDATION SURGICAL HOSPITAL OF EL PASO



HACKENSACK UNIVERSITY MC



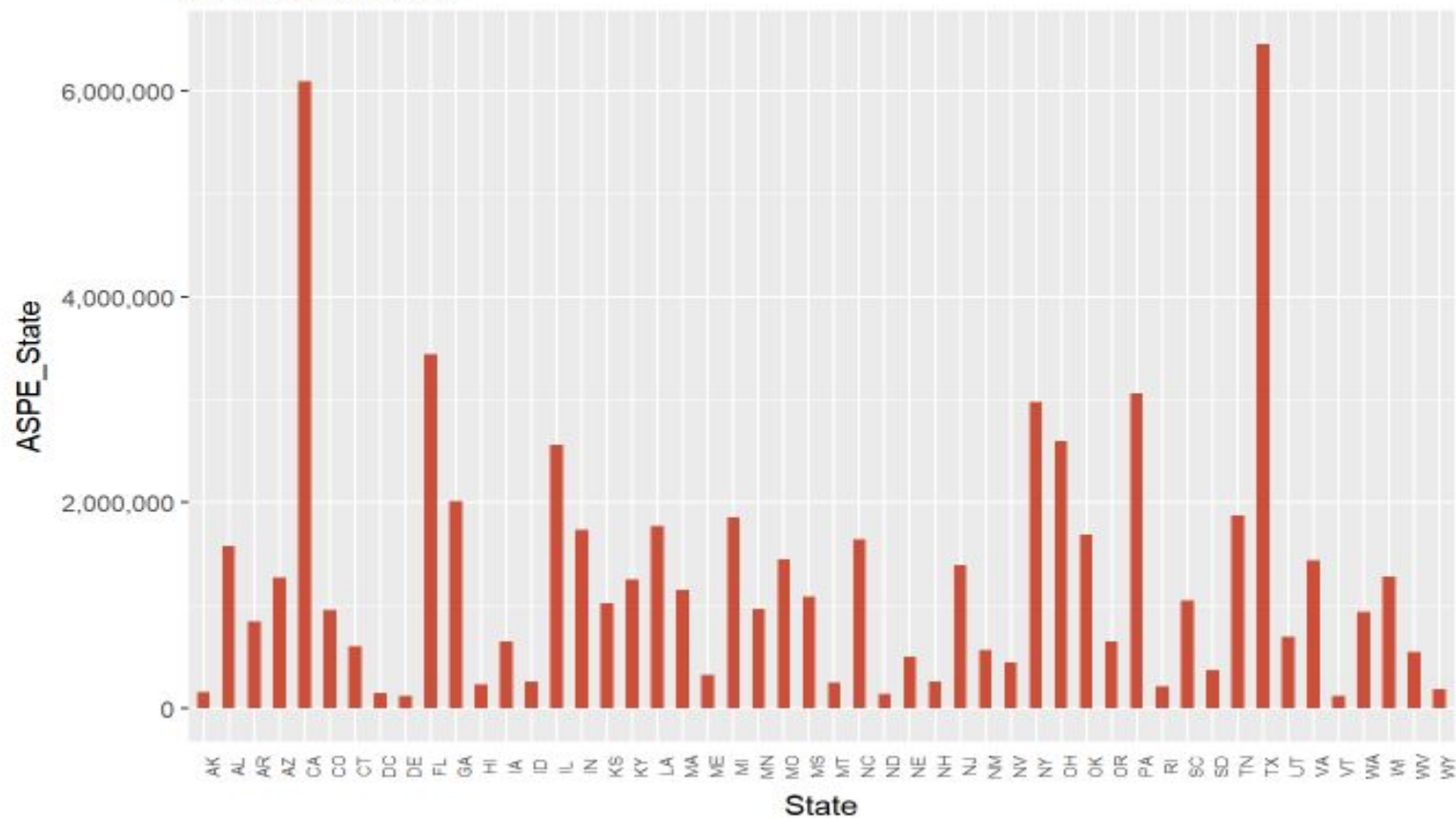
KINGS DAUGHTERS MC OHIO



LOS ANGELES CMH

Ordered Statewise Spending

State Vs ASPE_State



Conclusion

- ❑ Hospital has spent more on inpatient claim type
- ❑ The spending is more for period “during indexed hospital admission”
- ❑ All over US, hospitals from Texas have spent more on their patients.
- ❑ Texas, Ohio, California and New Jersey tops the chart.
- ❑ Texas is the highest spending state throughout the US.

THANKS

Questions?

Thank you Dr. Wiggins for your valuable feedback throughout the course.