

# **In-Patient Hip Replacement Analysis**

## **A Case Study Of New York, 2016**

**In-Patient Cost Analysis**

**In-patient LOS Analyis**

**Tooltip**

**Project Description**



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health\_service\_area

All

151

Total Hospitals

638

Total Surgeons

3

Average LOS Days

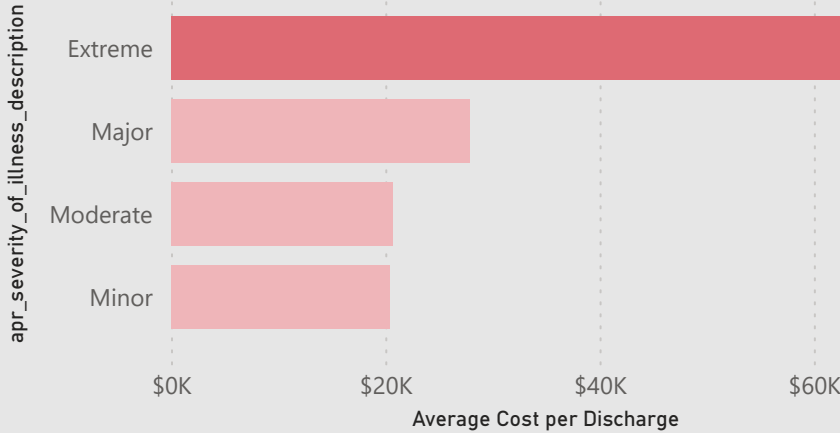
\$20,99K

Average Cost per Discharge

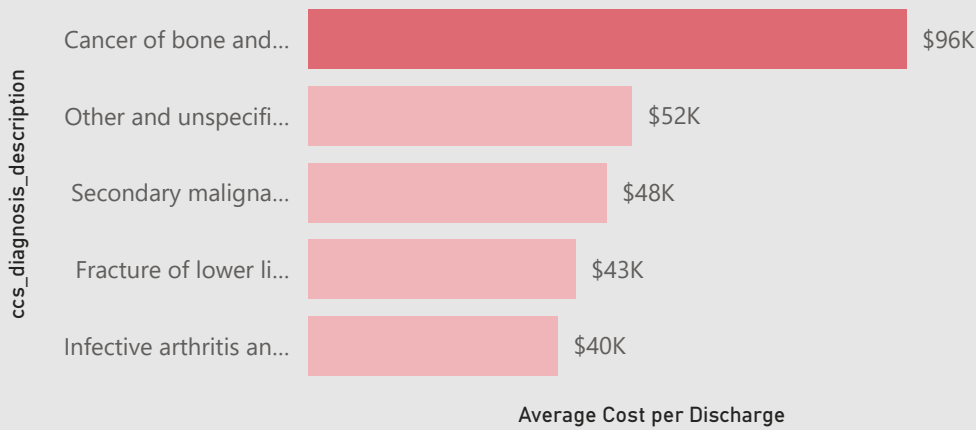
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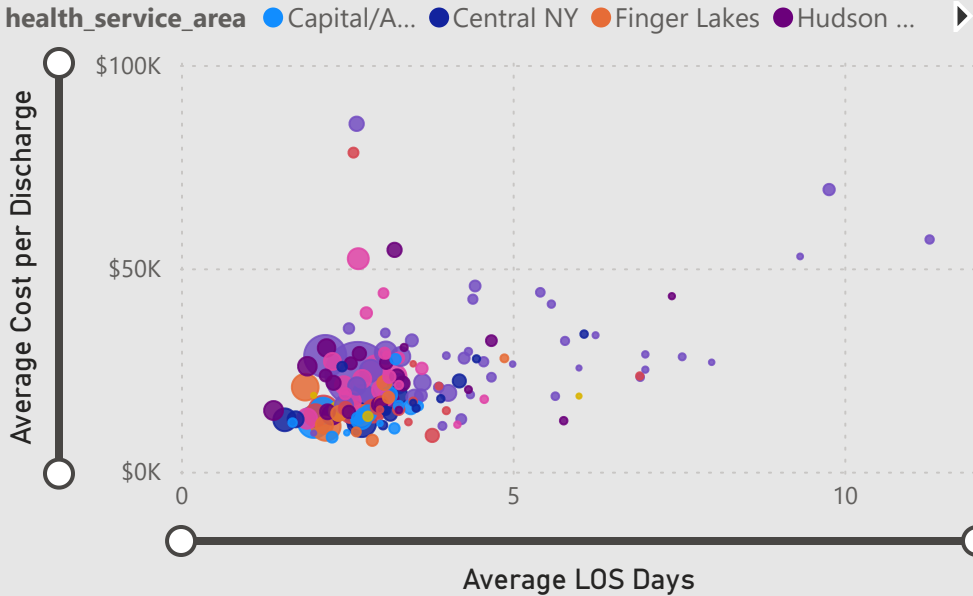
Average Cost per Discharge by Severity\_of\_illness



Average Cost per Discharge by ccs\_diagnosis\_description

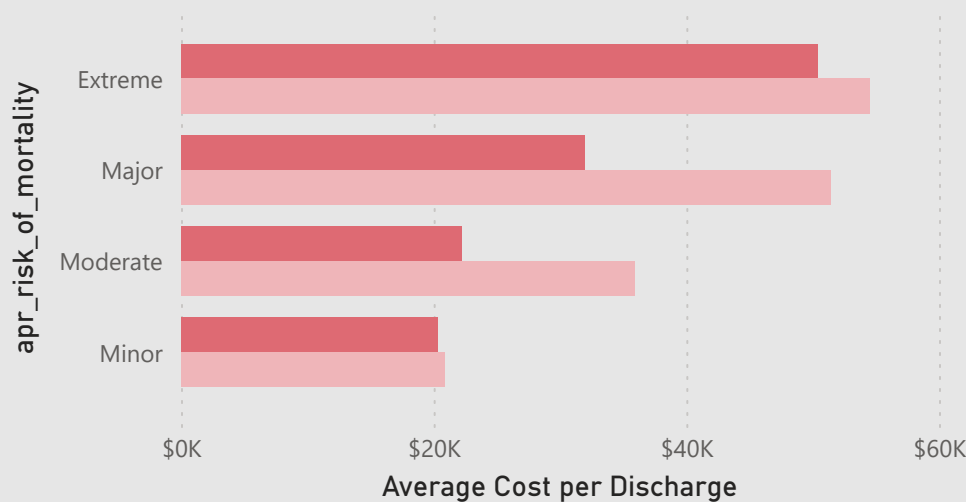


Average LOS Days Vs Average Cost per Discharge by Hospital



Average Cost per Discharge by apr\_risk\_of\_mortality and Age Bins

Age Bins





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## Key influencers

## Top segments

What influences length\_of\_stay to Increase ?

When... ..the average of length\_of\_stay increases by

apr\_risk\_of\_mortality is Major 2,99

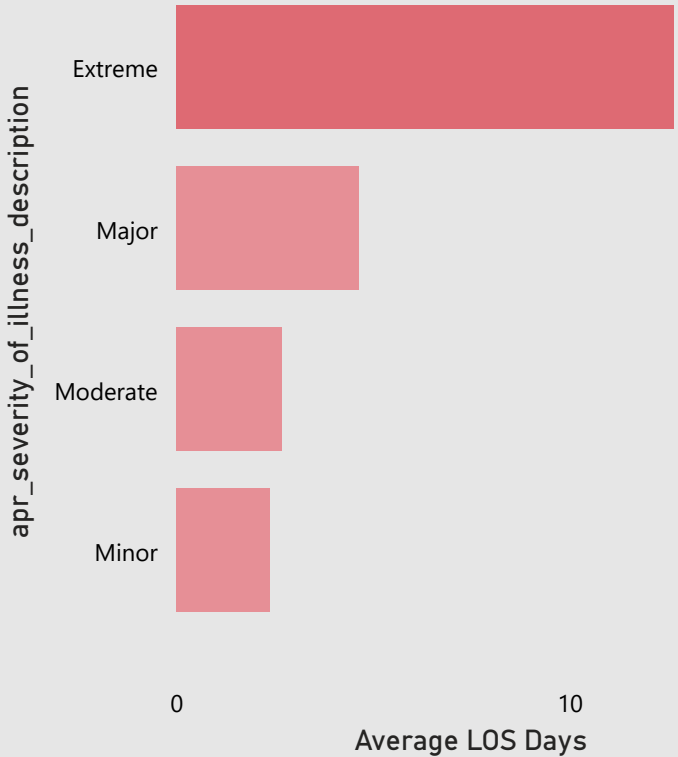
apr\_severity\_of\_illness\_des... is Major 2,01

patient\_disposition is Inpatient Rehabilitation Facility 1,3

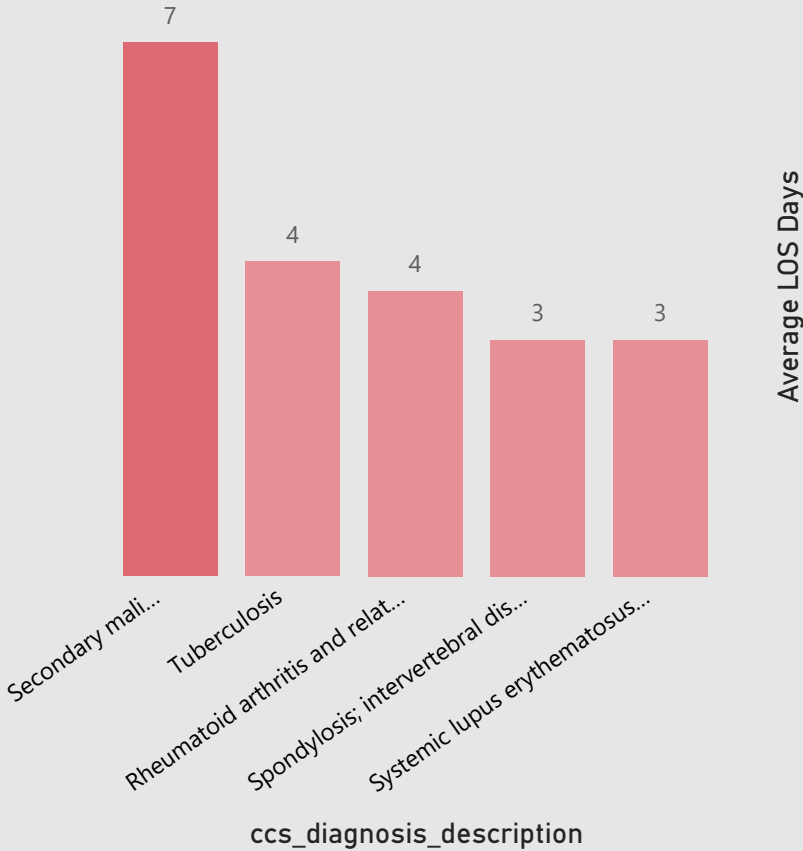
patient\_disposition is Skilled Nursing Home 1,18

apr\_risk\_of\_mortality is Sort by: Impact Count 0,79

## Average LOS Days by apr\_severity\_of\_illness\_description



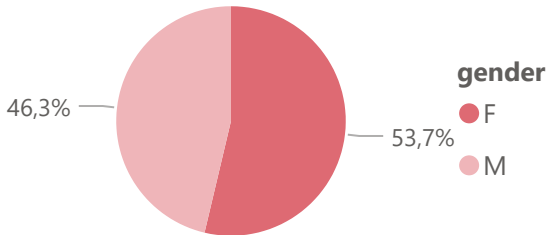
## Average LOS Days by ccs\_diagnosis\_description





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### Gender





## BACKGROUD OF ANALYSIS

This analysis was carried out on a Hip replacement procedure in New York. The dataset was extracted from Data-camp which is the surgical Analytics dataset.

### Data Analysis Process

Before dataset was analyze, data processing was performed in other to ensure that informed decisions are derived from the analysis.

### Data Overview

Dataset used for the analysis has total of 26594 columns.

### Insight

- From the analysis, there are 151 Hospital and 638 surgeons New York
- From the analysis it was observed that In-patient cost was affected by the severity of the illness, age and risk of mortality and the description of the illness.
- It was also deduced that the Length of Stay by a patient is affected by patient disposition, diagnosis description and age of a patient.

### Conclusion

The cost having medical treatment is expensive, Government should promote good by subsidizing medical fees and the elderly should be taken into consideration.