

OBJECTIVE

AIM:- Our goal is to understand how COVID-19 affects people's hospitalization in different sets and type of people corresponding to Bronx county, New York state in the United States

we will have concluded how covid affected the

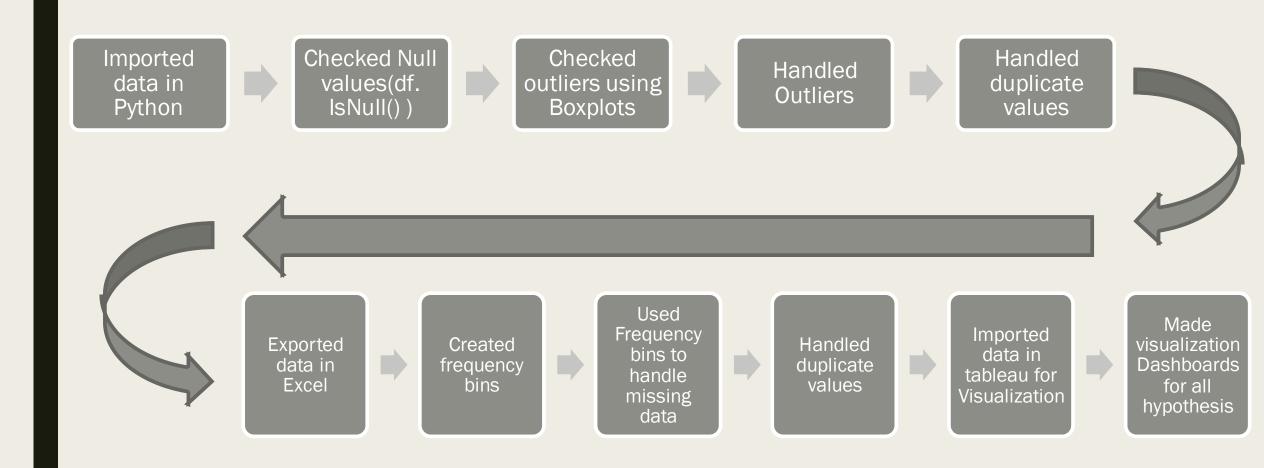
- 1. Hospitalized
- 2. Admitted
- 3. Discharged
- 4. Bed Availability per hospital facility

Data Description

This dataset includes information at the reporting facility level on patients hospitalized, admitted, discharged and fatalities. It also includes information on staffed beds. Patient information collected as part of the HERDS Hospital Survey are lab-confirmed COVID-19 positive. Hospitalized means patients admitted as inpatients in either inpatient or observation beds and does not include patients that were treated and released from an Emergency Department.

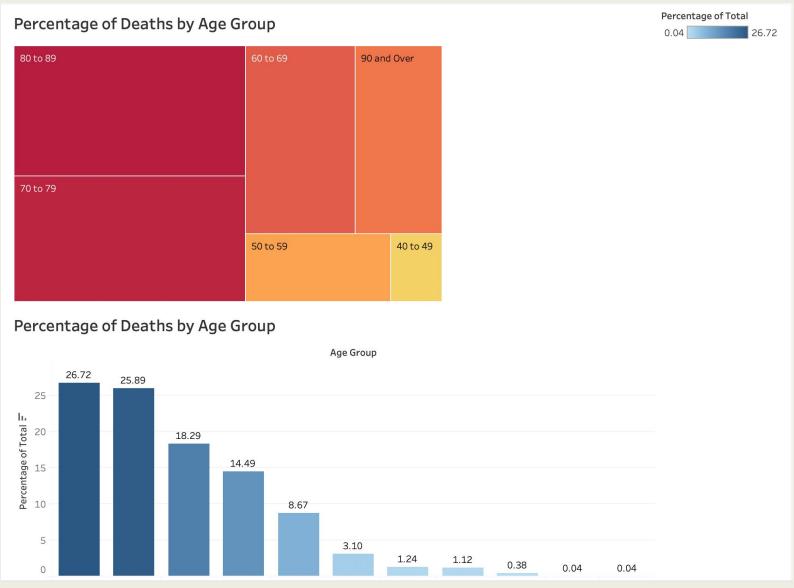
Dataset Size	Data source	Number of Rows	Number of Columns
76 KB	Phttps://health.data.ny.gov/Health/New- York-State-Statewide-COVID-19- Hospitalizations/jw46-jpb7/data	7767	26

Data Cleaning

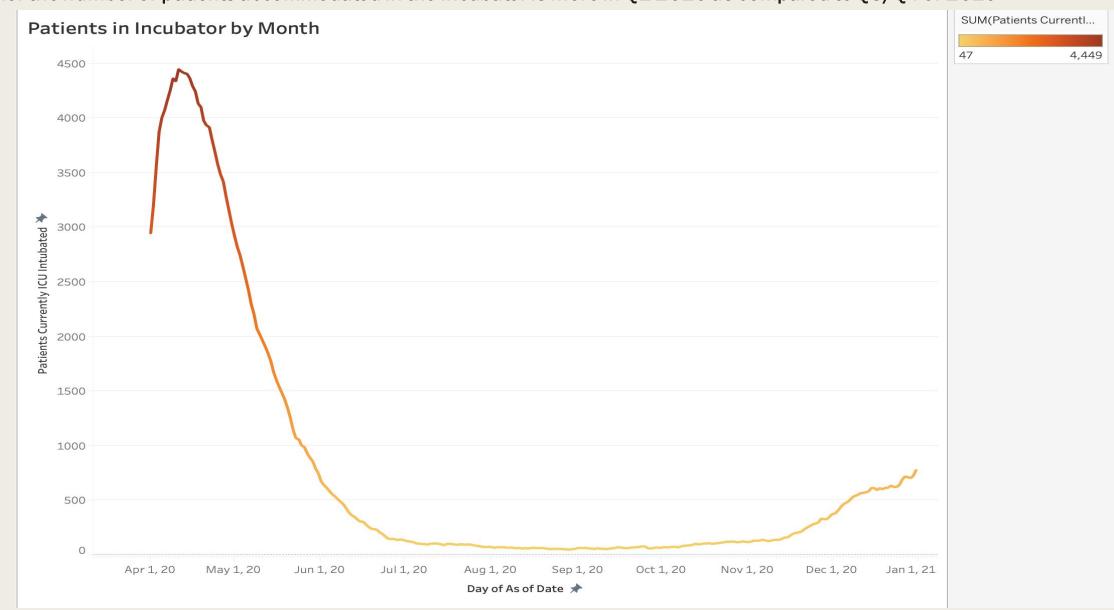


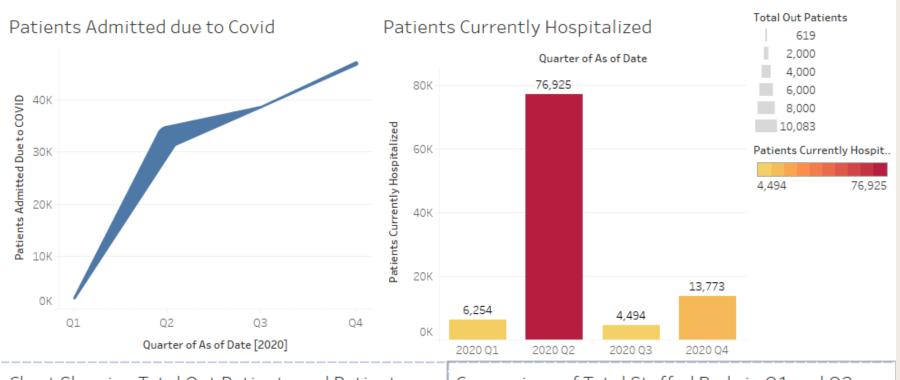
Whether the number of deaths in the age group 70-79 is higher than deaths in the age group more than 80 in Bronx county.

In general, older people were more susceptible to COVID-19 infection, caused by a defective immune response to infectious challenges. In addition, comorbid illnesses, malnutrition, drugs, and stress predispose the elderly to an increased risk of coronavirus by declining immune function.

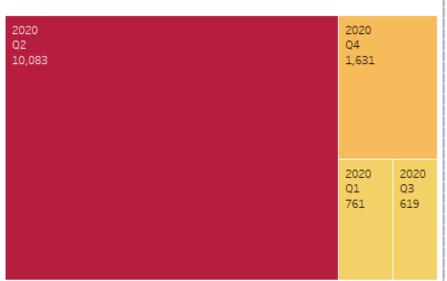


Whether the number of patients accommodated in the incubator is more in Q2 2020 as compared to Q3/Q4 of 2020

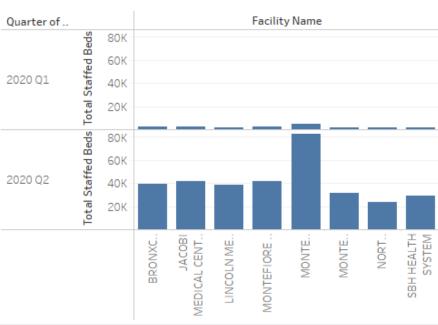




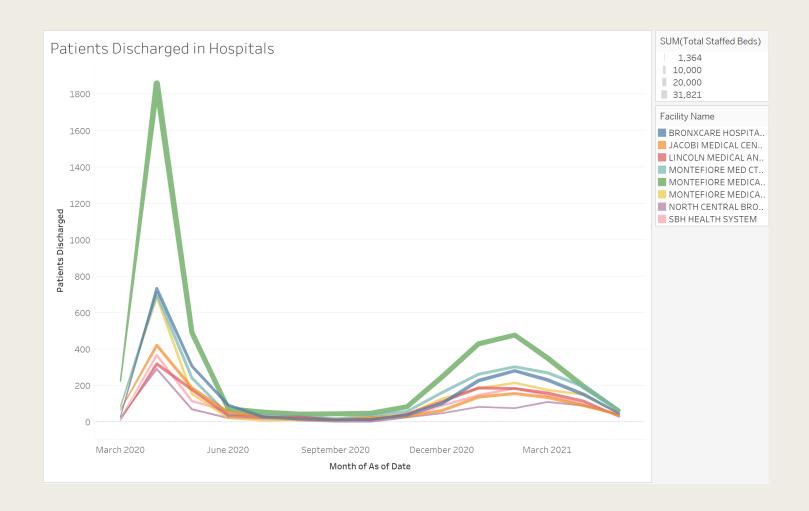




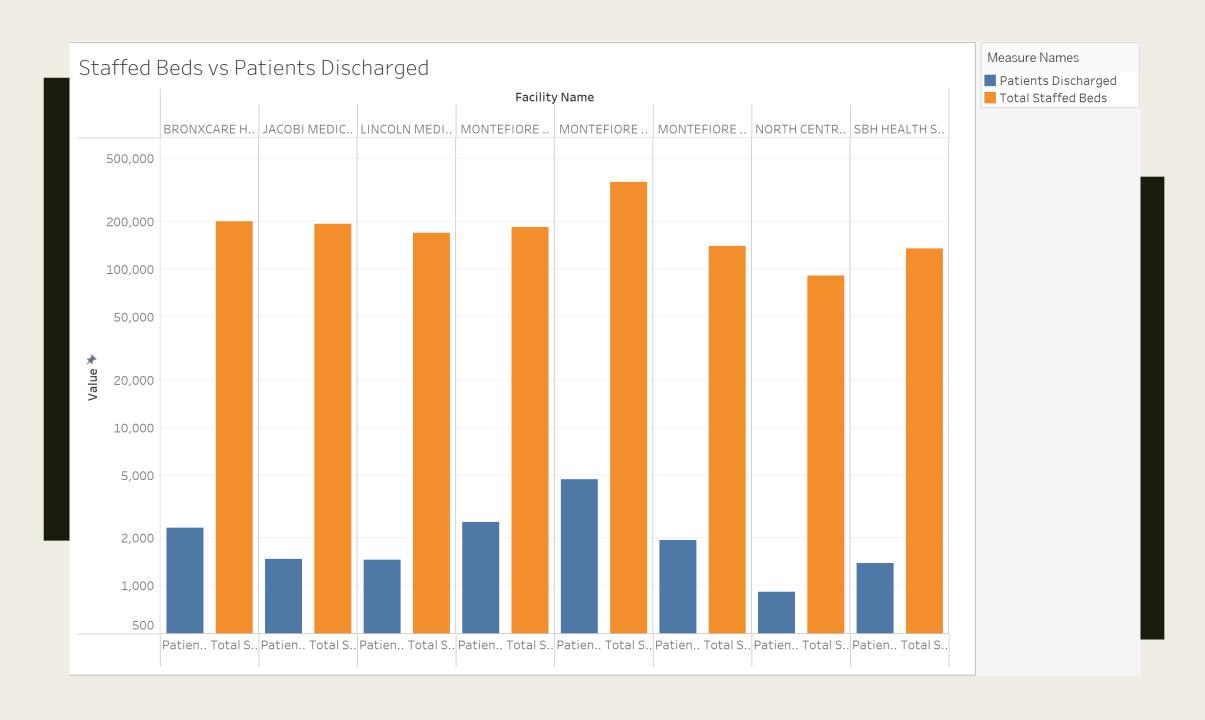


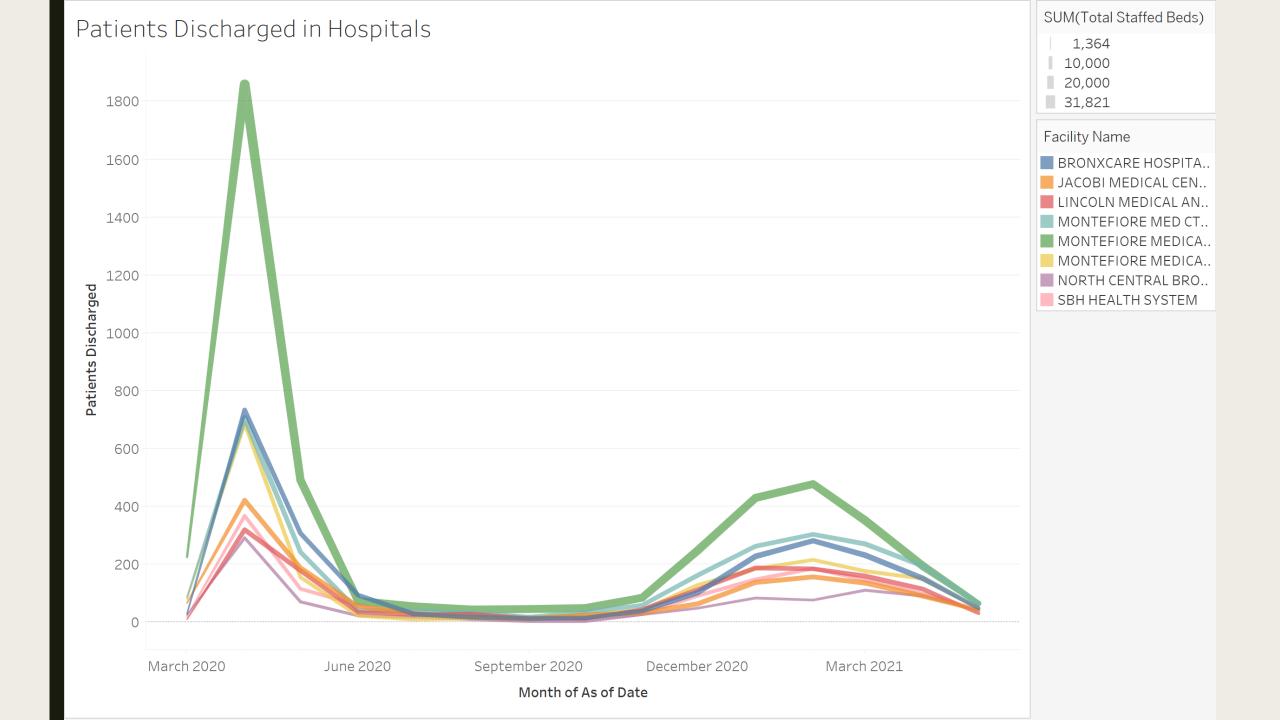


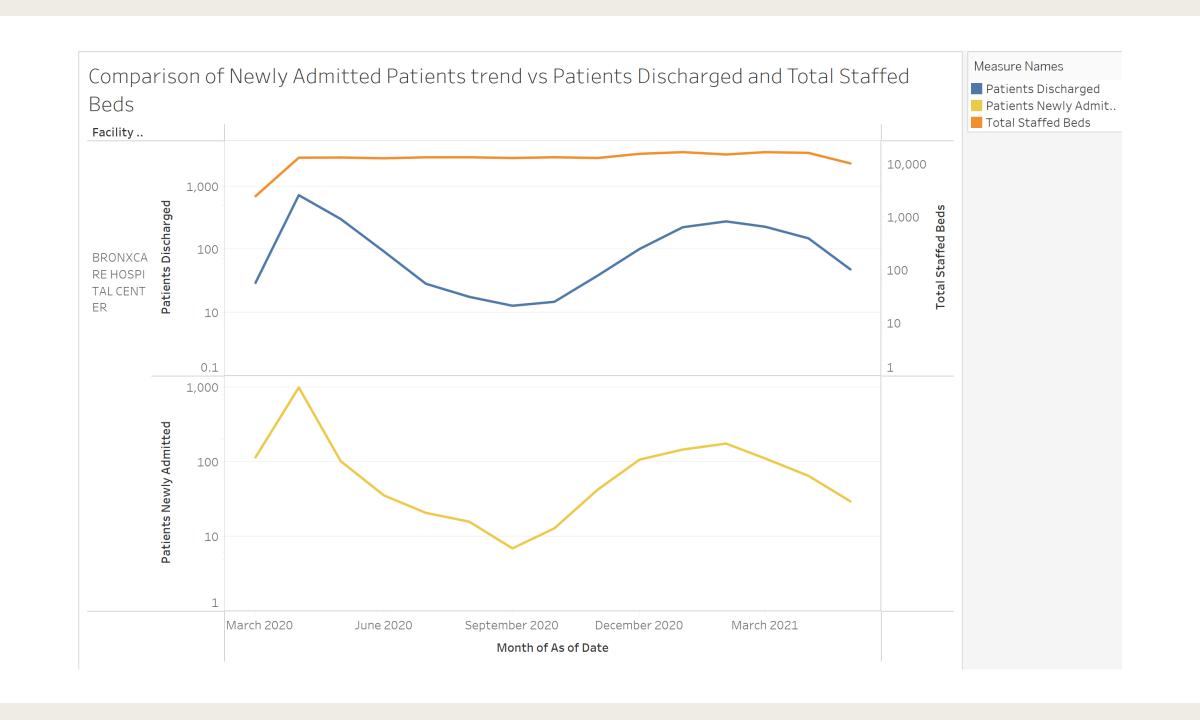
Whether hospital facilities were unable to provide beds to all incoming patients because of a higher spread of covid cases in Q2 of 2020 as compared to Q3/Q4 2020

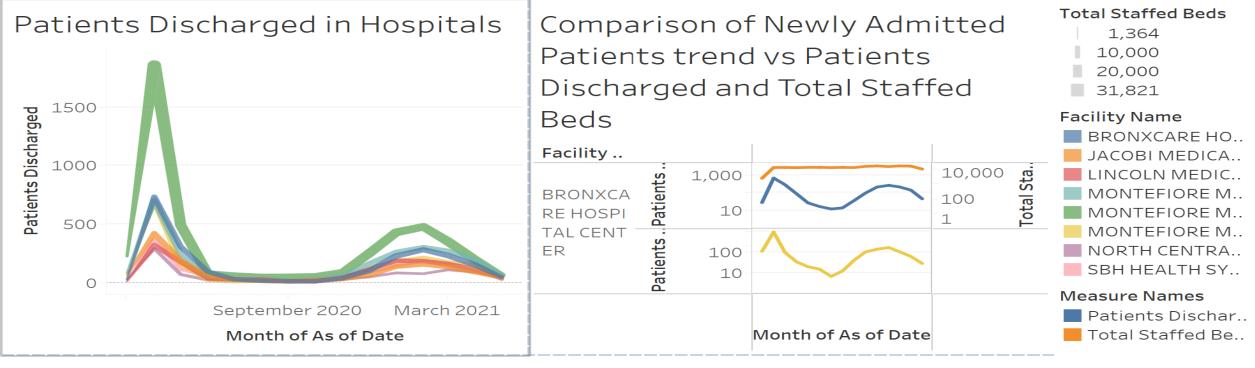


Whether the number of patients discharged in Facilities with greater number of hospital beds is more because they have a higher number of staffed beds available as compared to facilities with a smaller number of staffed beds.









Staffed Beds vs Patients Discharged

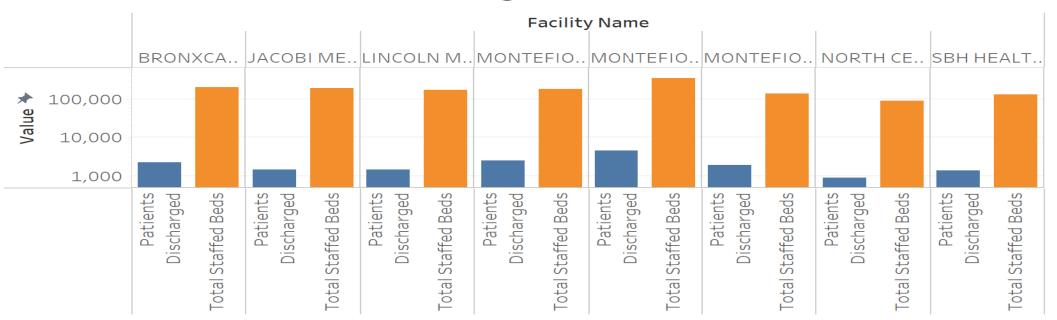
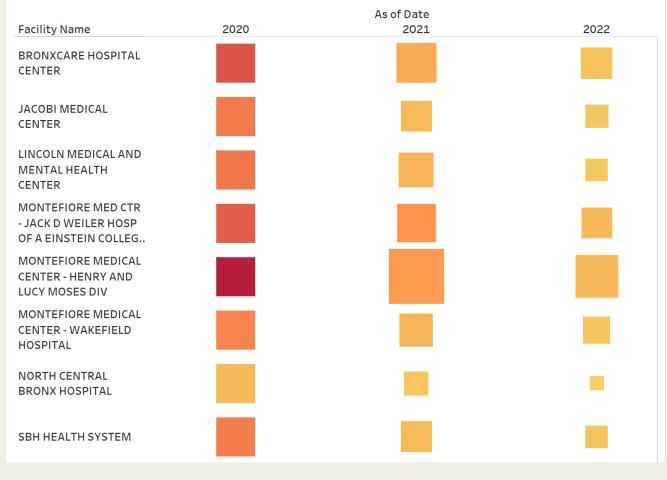
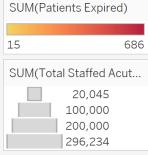


Chart depicting Total staffed acute care beds with the number of Patient Deaths

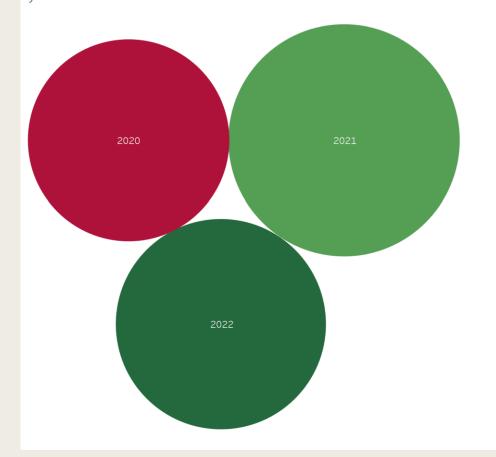




HYPOTHESIS

Whether the number of patients expired in facilities with many staffed acute care beds is less because they have a greater number of beds as compared to facilities with a smaller number of total staffed acute care beds.

Chart Showing Patients Newly Admitted and Patients Expired over the years







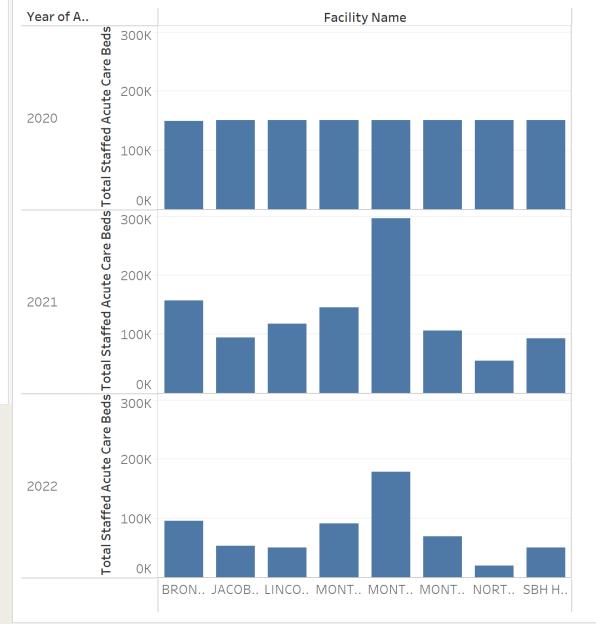
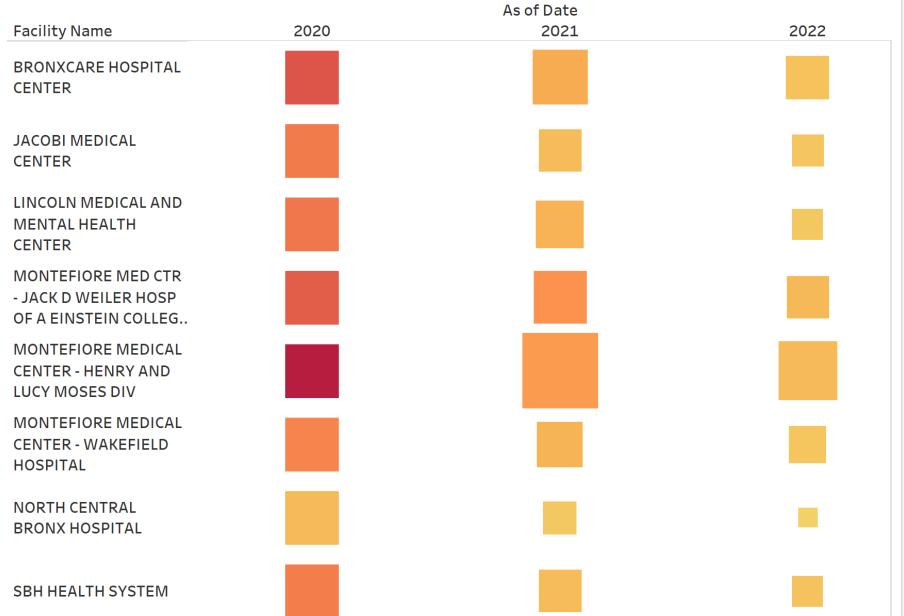


Chart depicting Total staffed acute care beds with the number of Patient Deaths



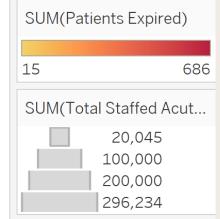
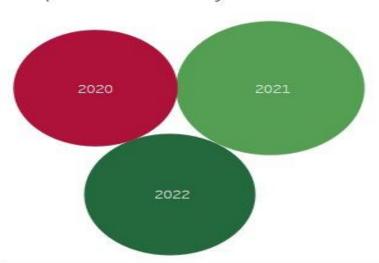


Chart Showing Patients
Newly Admitted and Patients
Expired over the years



Comparison of Total Staffed Acute Care Beds over the years

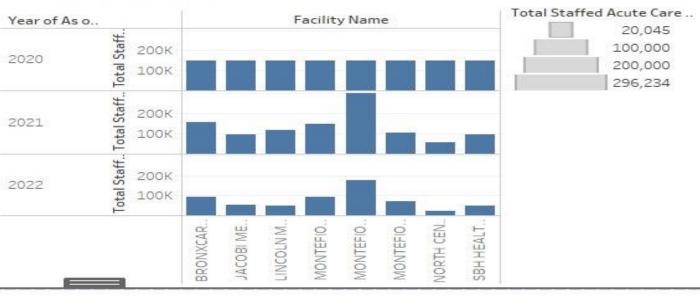


Chart depicting Total staffed acute care beds with the number of Patient Deaths As of Date 2020 2021

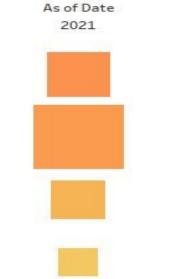
Facility Name

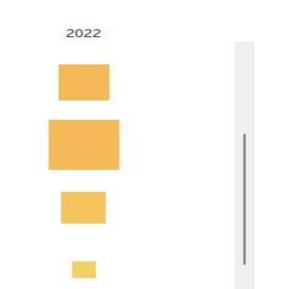
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D WEILER HOSP OF A
EINSTEIN COLLEGE DIV

MONTEFIORE MEDICAL
CENTER - HENRY AND LUCY
MOSES DIV

MONTEFIORE MEDICAL
CENTER - WAKEFIELD
HOSPITAL

NORTH CENTRAL BRONX
HOSPITAL





Patients Expired

2,939

× Z

506

CONCLUSION

COVID-19 has been adversely affecting the lives of billions of people, resulting in millions of deaths. The pandemic had serious consequences in almost every sector of the economy and society in the past two years. With the dataset, we have taken the hospital occupancy metrics and COVID metrics for all counties in New York. We studied the patterns and trends in hospitalization during COVID period. To sum up our insights, we conclude that the pandemic has had serious consequences in almost every sector of the economy including hospitals as they had to try to accommodate patients as much as they can but weren't able to because of the dynamic changes in the number of people being infected with COVID.

Any Questions?

Thank You