

MGH HOSPITAL INSIGHTS:

OVERVIEW:

- Total Patients: 974
- Readmitted Patients: 728
- Admitted Patients: 793
- Total Procedures: 47,701
- Procedures, Encounters and Total Patients are high in the Year 2014 followed by 2021.
- Procedures, Encounters and Total Patients are least in the Year 2022. So, the total revenue was dropped down.
- Insured Procedures: 24,791
- Uninsured Procedures: 22,910
- Total Encounters: 27,000
- Ambulatory Encounter class has recorded with high number of encounters (12.5k) followed by outpatient and urgent care.
- Lower Number of encounters are recorded for emergency, wellness, inpatient.
- Average Cost per visit: \$3.64k
- Average length of Stay in Hrs: 7.25
- Average Procedure cost per visit: \$2.21k
- Total Revenue: \$101.51M (Male: \$52.97M, Female: \$ 48.54M)
- Coverage Amount: \$31.10M
- Out of Total Revenue, 30.63% (31.10M) is covered by Insurance.
- Out of all Payers, Medicare covered more Procedures.
- Amount paid by patients: \$70.42M
- The top 5 Procedures by density are: Normal Pregnancy, Atrial Fibrillation, Malignant Neoplasm of disorder, non-small cell carcinoma of lung TNM Stage I, Hypoxemia.

INSURANCE ANALYSIS:

- Medicare has the highest coverage amount: \$19M with total claim cost: 25M, followed by Medicaid with coverage amount \$8M for claim cost: \$9M. Medicare covered mostly for elderly age patients.
- Out of top 15 patients, Eugene Abernathy (Elderly age) was the 1st top patient who received highest coverage amount: \$845K (Also, with highest claim amount: \$1M and with highest patient amount: \$215K)
- Total Claim cost and Coverage Amount peaks in the year 2014, 2020 and shows some fluctuations over the years, with a drastic drop in year 2022. This indicates that there might be severe health crisis in year 2014, 2020.

- Insurance Companies mostly covered Normal Pregnancy. It could be because of many pregnancy cases.

PATIENT ANALYSIS:

- Out of 974 patients, 480 are female, 494 are Male.
- Though Females are slightly less than males, they encountered more procedures, encounters than males.
- Encounters- Female: 53.51% (14924)
 - Male: 46.49% (12967)
- Procedures- Female: 53.74% (25633)
 - Male: 46.26% (22068)
- This indicates that females have more health issues.
- Half the patients are from Boston city (541)
- Admitted, Readmitted patients count is more in months of February, March.
- Middle aged People, Elder people have more health issues and admitted in hospital when compared to young, senior aged people.
- Kimberly Collier was the patient with the highest number of encounters and procedures.
- Patients have been admitted more due to Chronic congestive heart failure followed by Hyperlipidemia.
- Nick Tillman was the person who stayed for 4893 hrs in hospital (avg stay) due to Sinusitis, Anemia

AVERAGE STAY ANALYSIS:

- December has highest average stay in hrs(22) followed by March(18 hrs)
- Patients suffering from Sepsis (203 hrs), Covid (183 hrs) stay for a greater number of hours.
- Middle aged Patients stay for more hours compared to Senior, Elderly, Young aged patients.
- Average Stay Length peaks in the year 2014