

HEALTHCARE ANALYSIS



DISEASE ANALYSIS



PATIENTS ANALYSIS

Team Members:

- Amardeep Sherawat (025WI1DA0006)
- Shruti Rathore (025WI1DA0001)
- Preet Kalra (025WI1DA0004)
- Amit Prasad (025WI1DA0009)
- Niharika Rawat (025WI1DA0010)



DISEASE ANALYSIS



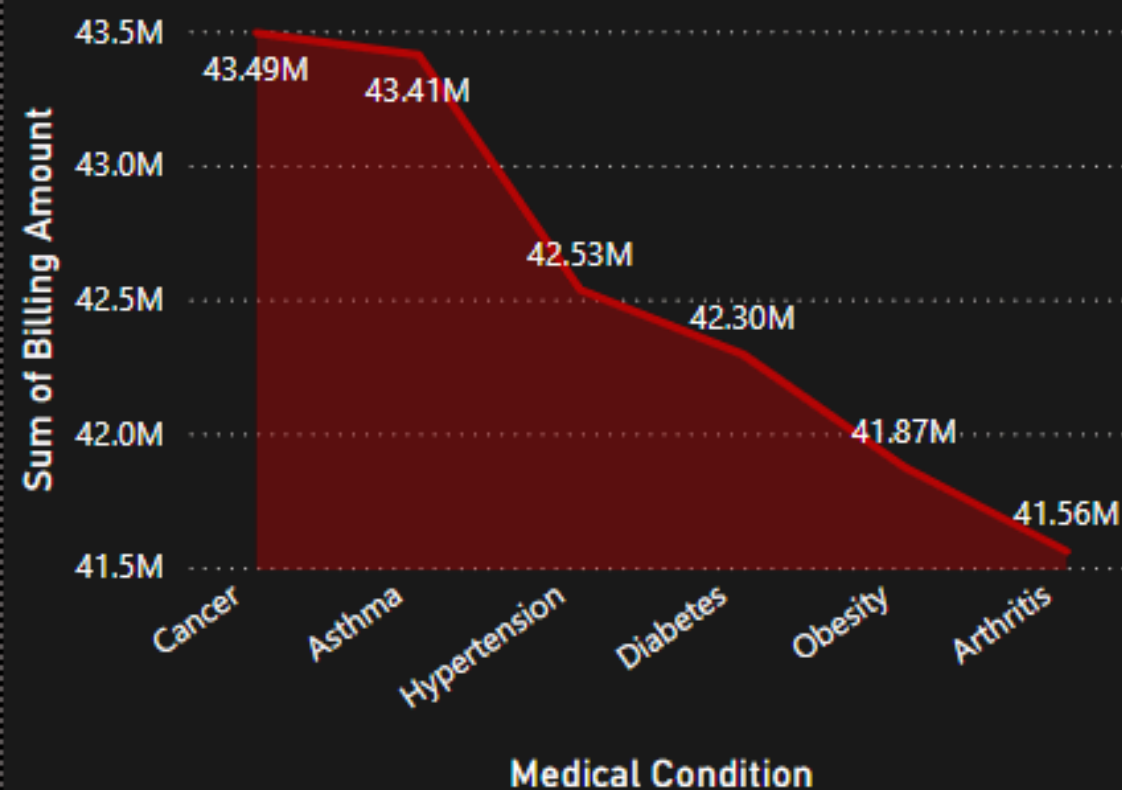
10.00K

51.45

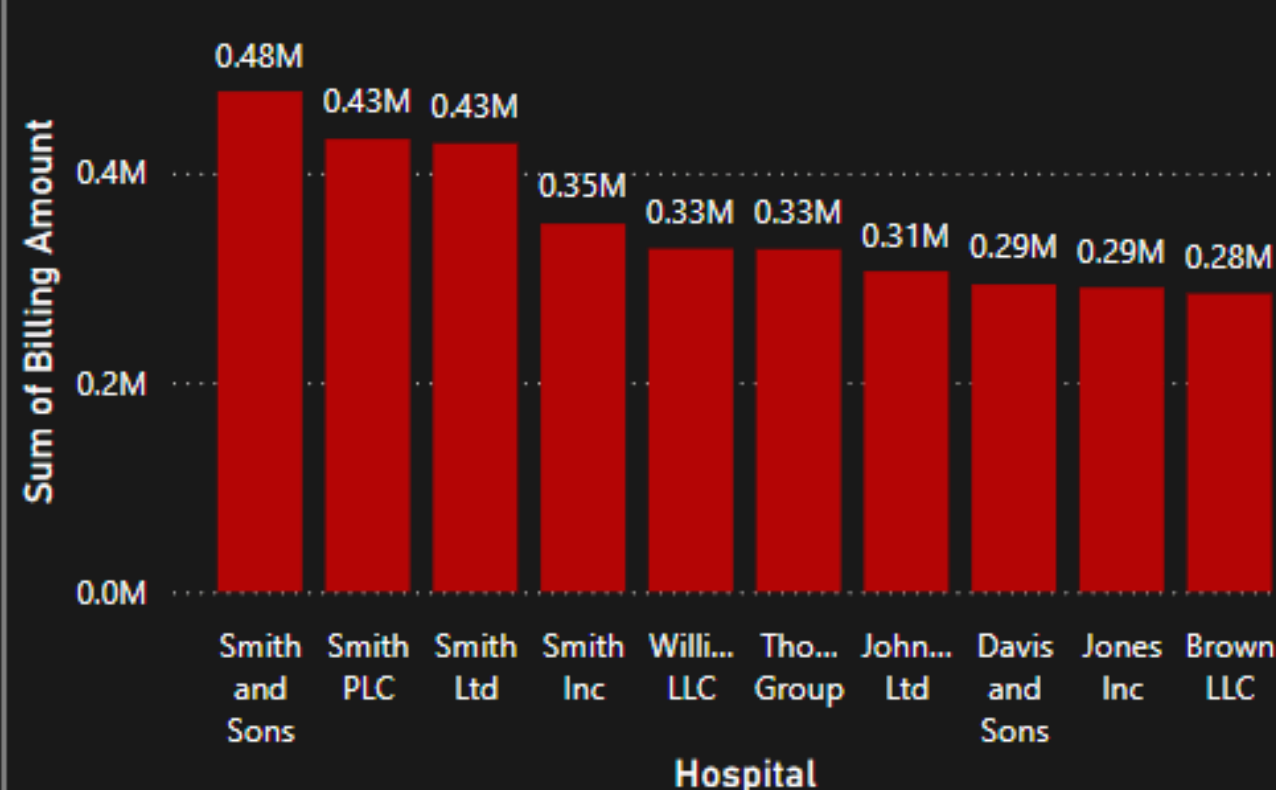
Total number of Patients

Average age of Patients

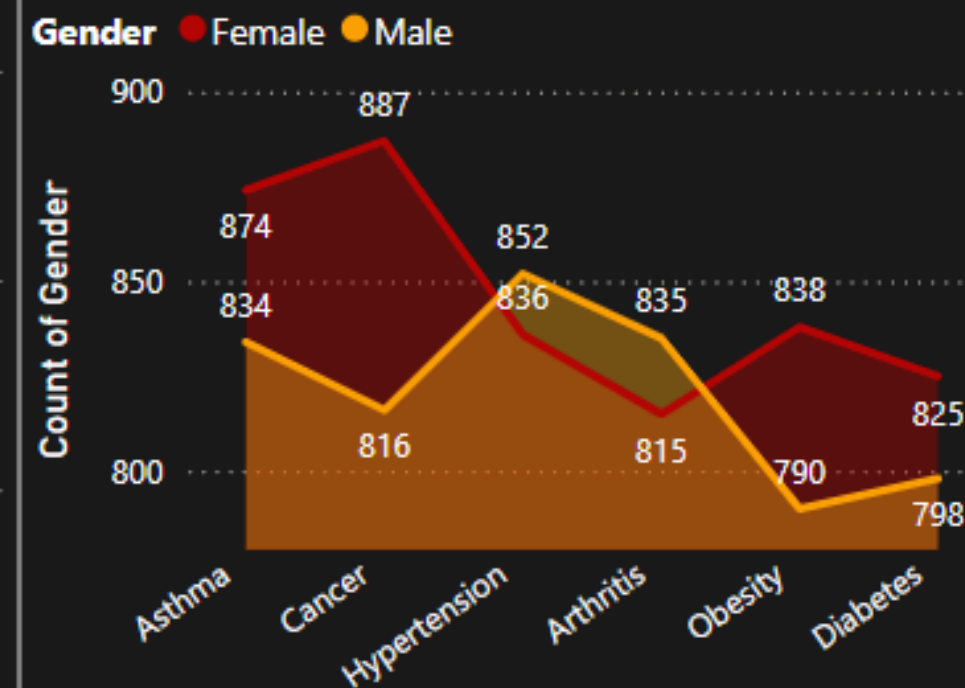
Total expense by disease



Hospital billing for each medical condition

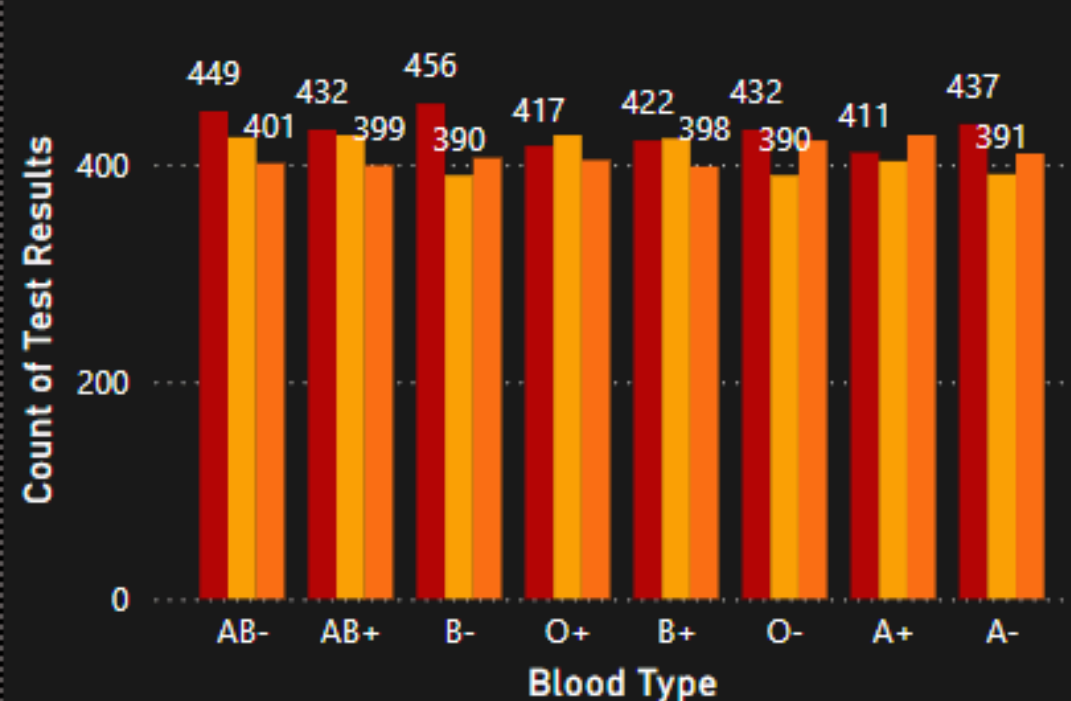


Medical condition by Gender



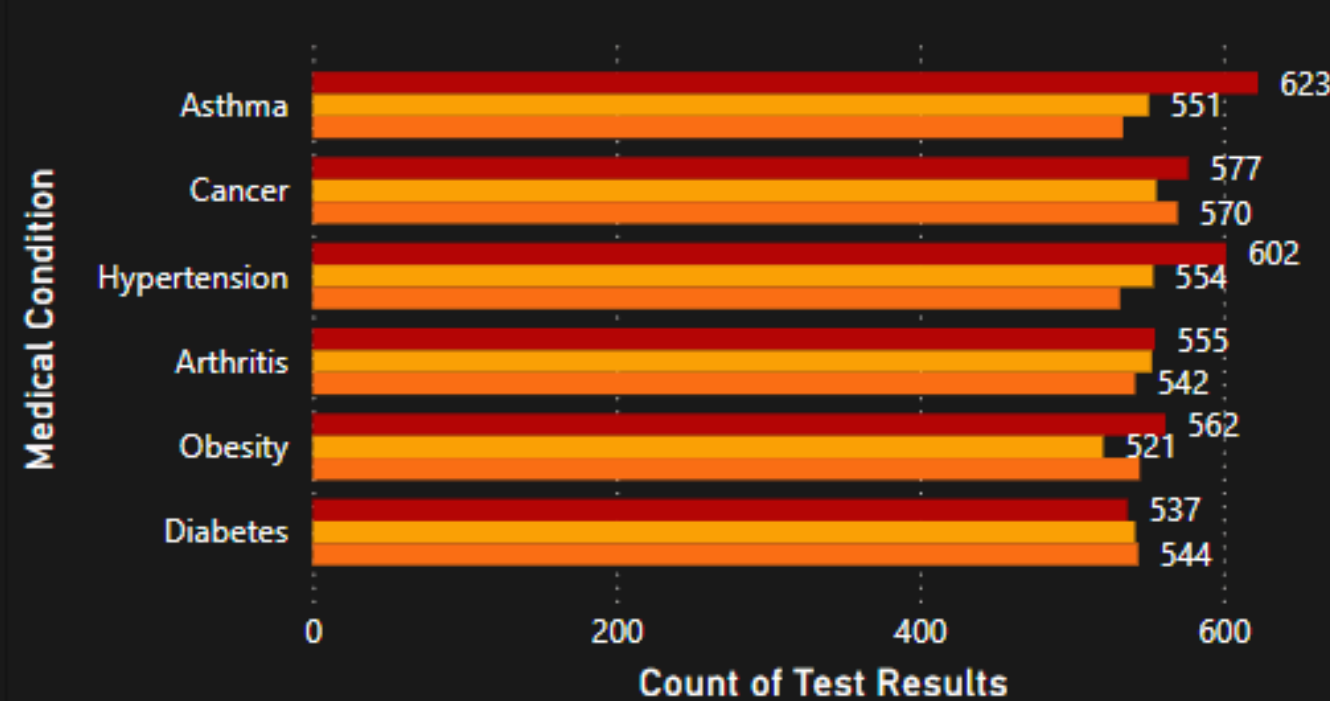
Blood type by Test result

Test Results ● Abnormal ● Inconclusive ● Normal



Test Results by Medical Condition

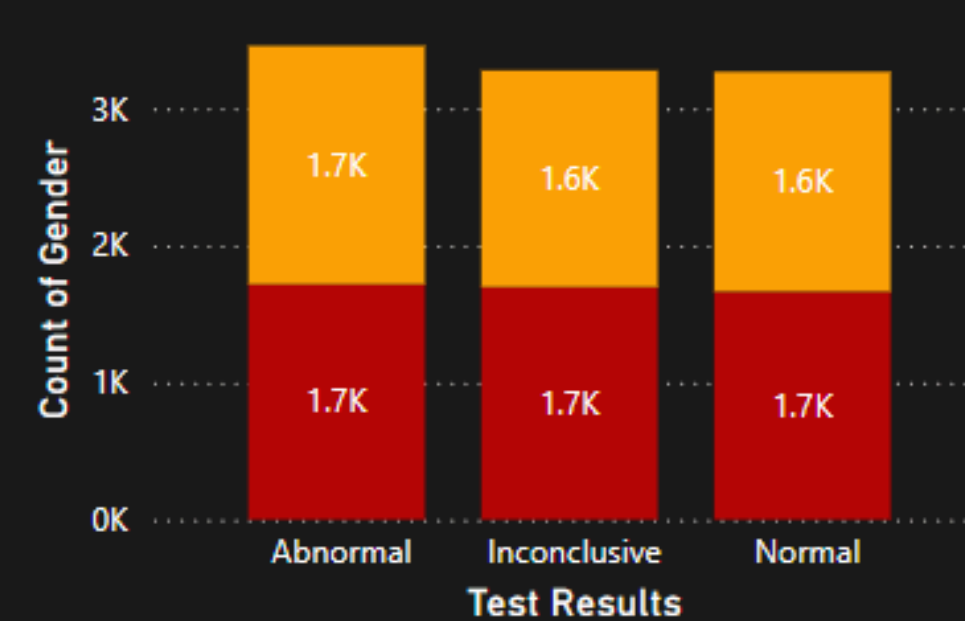
Test Results ● Abnormal ● Inconclusive ● Normal



Medical Condition

Test Results and Gender

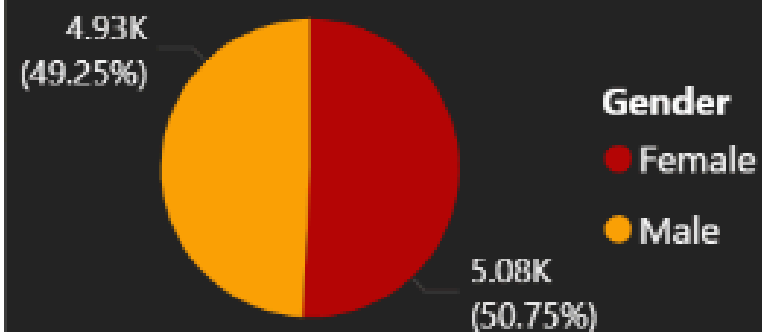
Gender ● Female ● Male



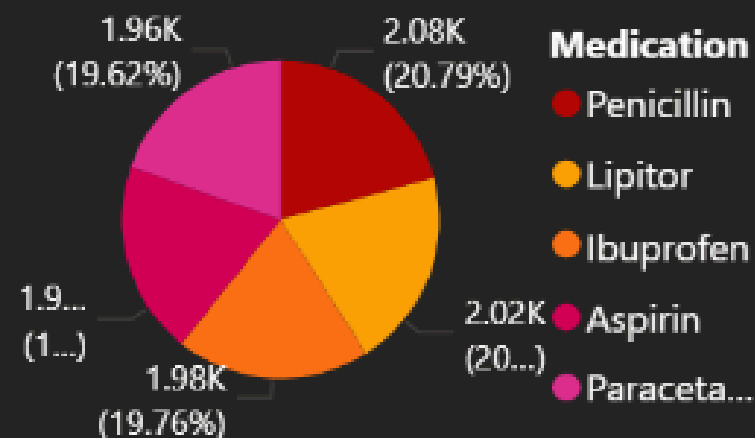


Patients Analysis

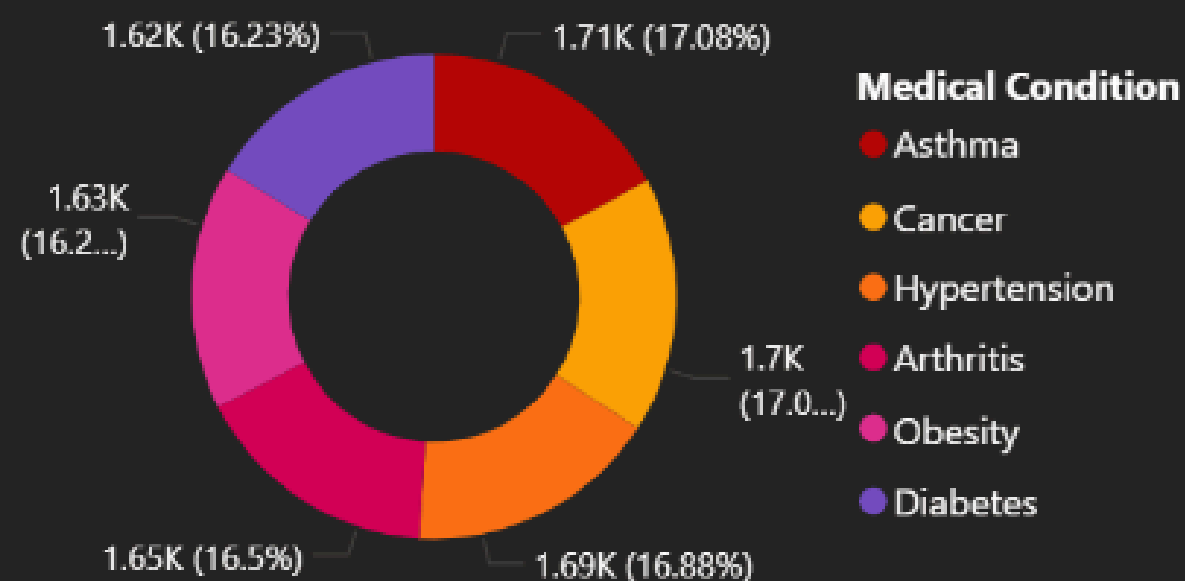
Gender Difference



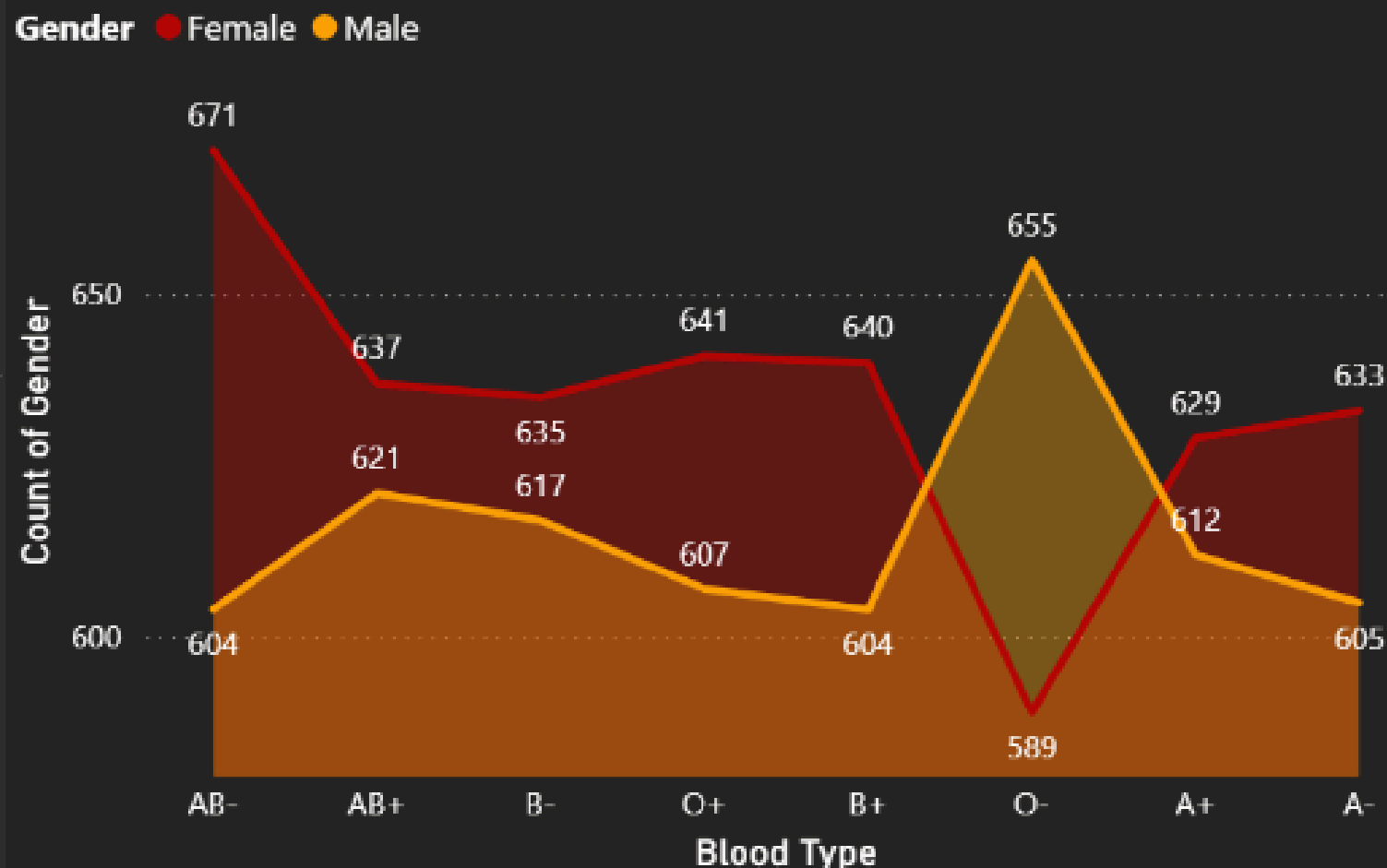
Most used medication



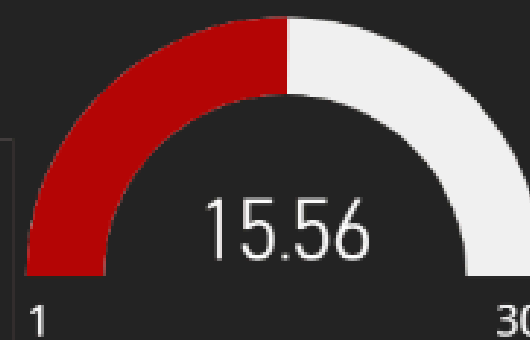
Number of patients by Medical Condition



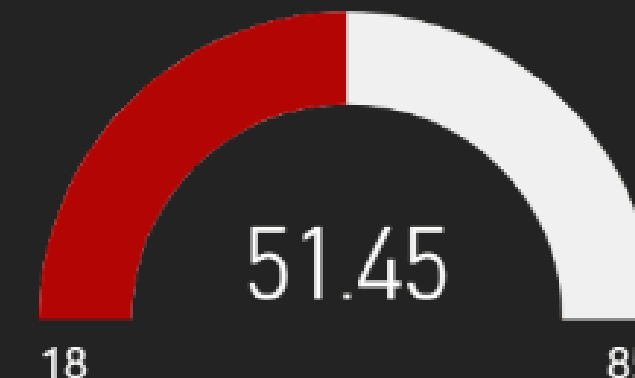
Blood Type and Gender



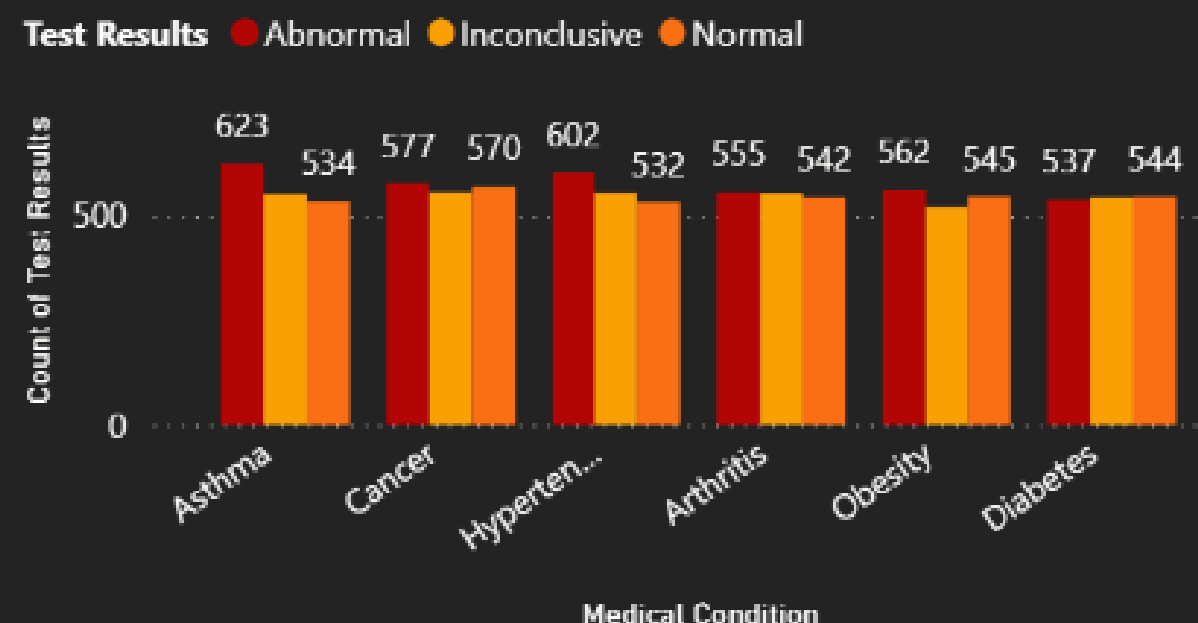
Average of Days Spent



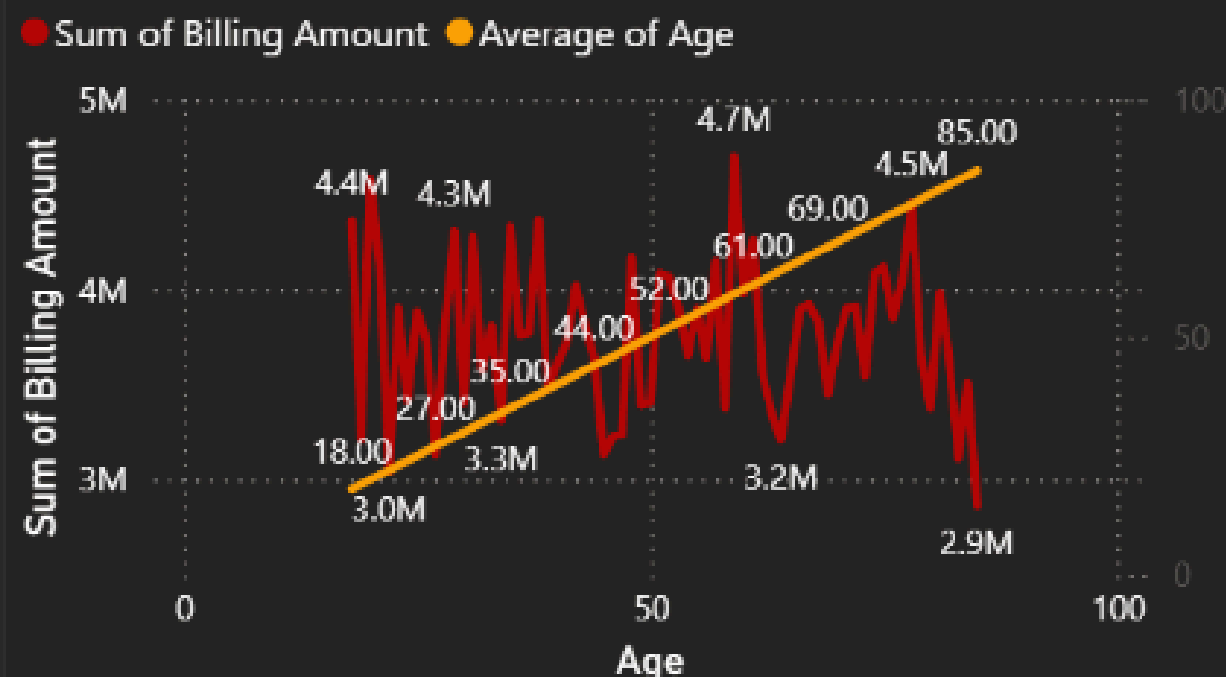
Average age



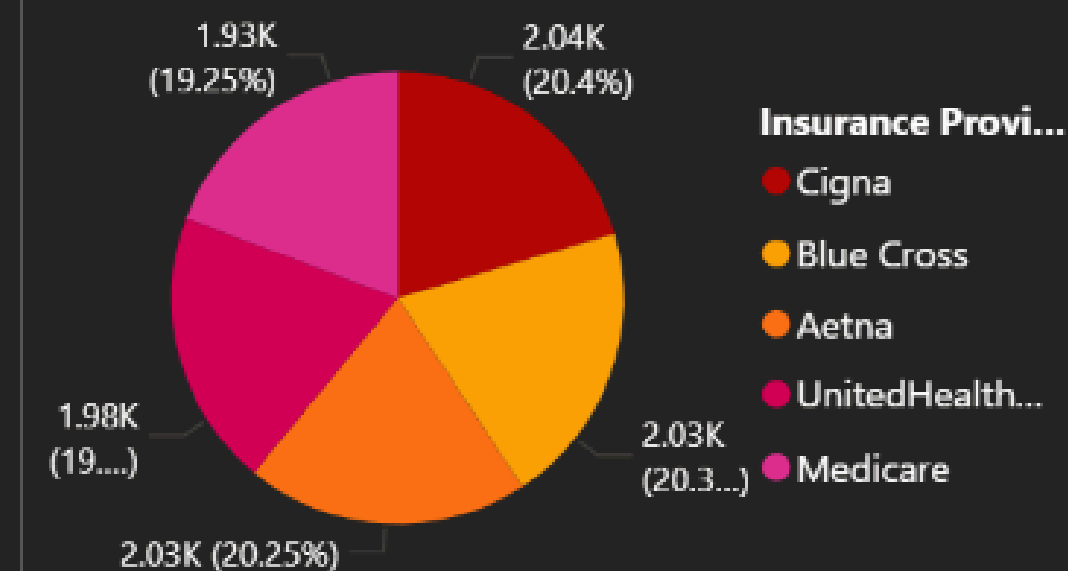
Count of Test Results by Medical Condition and Test Results



Sum of Billing Amount and Average of Age by Age



Count of Gender by Insurance Provider



Healthcare Analysis Report

Disease Analysis Report:

1. Cancer-related expenses are significantly higher compared to all other diseases, suggesting the high cost of treatment and care. In contrast, arthritis incurs the lowest expenditure, indicating either lower treatment costs or less frequent hospitalization.
2. Asthma hits the most patients with a record 1,708 cases reported, closely followed by cancer. This emphasizes the prevalent reach of respiratory ailments and preventive measures as well as awareness.
3. AB-blood group patients demonstrate higher prevalence of medical problems, primarily obesity, implying a connection which warrants further medical research.
4. A majority of the test results for patients reveal abnormalities, which may indicate late diagnosis or high referrals of chronic diseases.

Patient Analysis Report:

1. The population of patients exhibits an equal balance of both genders, that is, 50% male and 50% female, reaffirming inclusivity of care services.
2. The most desired insurance company is Aetna, which implies satisfactory coverage or favorable benefits for most patients.
3. Approximately one-third (33%) of the patients are in need of immediate admission, emphasizing the need for effective emergency treatment and fast-track processes within hospitals.
4. Penicillin is the most commonly prescribed drug, highlighting its value in the treatment of various infections and conditions.
5. Michael Johnson is a patient with seven hospital stays, which reflects an instance of long-term illness or frequent complications necessitating constant medical intervention.
6. Smith PLC is the preferred hospital for the majority of patients, perhaps because of its service quality, specialist presence, or geographical convenience.

Further Insights:

1. The predominance of cancer-related expenses over others indicates a requirement for fund allocation and early detection initiatives.
2. The rate of abnormal test results is a concern regarding preventive care and could indicate poor initial diagnosis or late stages of disease.
3. Insurance companies significantly influence healthcare outcomes; learning how patients like Michael Johnson prefer to go with Aetna would assist other carriers in enhancing service.
4. Epidemiology of frequent hospitalization cases such as Michael Johnson's should be analyzed for prevention opportunities.