





Healthcare Report Project Objective

To derive actionable insights from patient demographics, medical conditions, billing patterns, and hospital admissions with the help of Power BI. To optimize healthcare resource allocation and cost management by analyzing trends in billing patterns and medical consumption across different age groups and enhance operational efficiency and patient outcomes.



Trends in Billing Amount

- Highest billing amount recorded is in elderly age group (65+) that is \$413.43M followed by young adults (19 - 35) which is \$348.23M. The children(0-18) have lowest billing amount which is \$23.76M.
- Johnson PLC and Smith LLC are the hospitals that have highest billing amount exceeding \$1M each.
- Diabetes and Obesity account for the highest billing amounts (\$238.54M and \$238.21M, respectively).
- Hypertension, Arthritis, and Asthma have roughly same billing amount that is \$230M.
- Cancer treatment billing is comparatively lower (\$232.17M), yet significant.

Age group wise distribution

- The elderly people have highest medical consumption followed by 19 to 35 age group.
- The age group of 36 - 50 and 51 - 65 have higher incidence of chronic diseases like diabetes, hypertension and obesity.
- More tests are conducted in the older population, likely due to increased health concerns.

Blood type wise medication Distribution

- Lipitor, Ibuprofen, and Aspirin are equally distributed across different blood groups.
- Difference across medication consumption across different blood groups is minimal

Insurance Provider and admission types

- Cigna, Medicare, and UnitedHealthcare cover the highest number of patients (roughly 11K each)
- Billing amounts are evenly distributed among different insurance providers, showing no major dominance by one insurer
- Emergency admissions have the highest medication usage (18.27K cases), slightly lower than elective (18.66K) and urgent (18.58K) cases suggesting that planned treatments require as much medication as emergency treatments