

CLINICAL HEALTHCARE DATA ANALYSIS AND INSIGHTS



BACK

Project Summary:

The healthcare industry generates massive amounts of data daily, offering invaluable opportunities for healthcare providers and policymakers to enhance patient care, optimize resource allocation, and control healthcare costs. This project focuses on analyzing a comprehensive healthcare dataset, which includes medical examinations, hospitalization records, and patient profiles. The goal is to extract meaningful insights into patient health trends, medical histories, and associated healthcare costs. By rigorously cleaning, transforming, and exploring the data, we aim to uncover patterns and relationships between key health metrics. This analysis will help identify trends in healthcare utilization, disease prevalence, and cost variations across different patient demographics. The insights derived from this project will support healthcare stakeholders in making informed decisions to improve patient outcomes, design cost-effective care models, and allocate resources more efficiently. Through data-driven visualizations and thorough analysis, this project will deliver actionable recommendations for enhancing healthcare delivery and policy formulation.



BACK

PATIENTS MEDICAL EXAMINATION

PATIENTS ID SLICER

- ☐ Id1
- ☐ Id10
- ☐ Id100
- ☐ Id1000
- ☐ Id1001
- ☐ Id1002
- ☐ Id1003
- ☐ Id1004
- ☐ Id1005

TOTAL PATIENTS IN DATASET

2335

Count of Customer ID

PATIENTS WITH CANCER HISTORY

2

Count of Cancer history

PATIENTS UNDERGONE TRANSPLANTS

144

Count of Any Transplants

AVERAGE BMI PATIENTS WITH 3 MAJOR SURGERIES

32.98

Average of BMI

OBESITY PATIENTS WITH HEART ISSUE

500

Count of Heart Issues

AVERAGE HBA1C PATIENTS WITH SMOKER

6.62

Average of HBA1C

PATIENTS WITH DIABETES

797

Count of Diabetes Status

PATIENTS TOTAL NUMBER OF MAJOR SURGERIES

1579

Sum of NumberOfMajorS...

PATIENTS WITH HEART ISSUES AND DONE TRANSPLANTS

19

Count of Heart Issues

PATIENTS WITH OBESITY

1221

Count of BMI



BACK

PATIENTS HOSPITALIZATION DETAILS

SUMMARY STATISTICS FOR CHARGES

13.54K

Average of charges

MEDIAN AGE OF PATIENTS

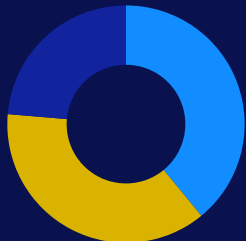
39

Median of Age

AVERAGE OF CHARGES BY CHILDREN PATIENT

CHILDREN

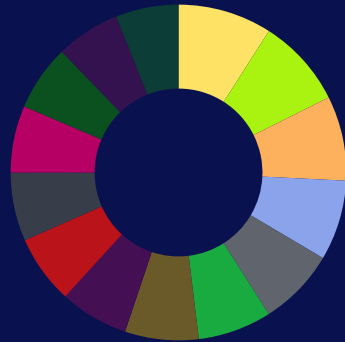
- 3
- 4
- 5



AVERAGE OF CHARGES BY AGE

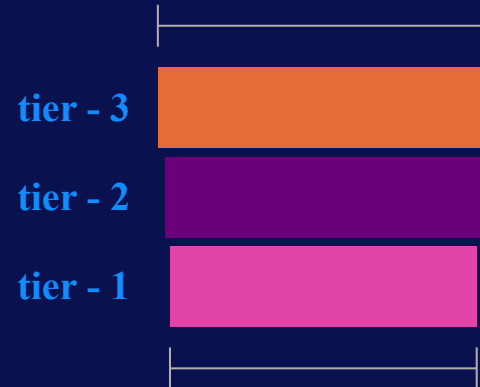
AGE

- 64
- 61
- 60
- 63
- 62
- 55



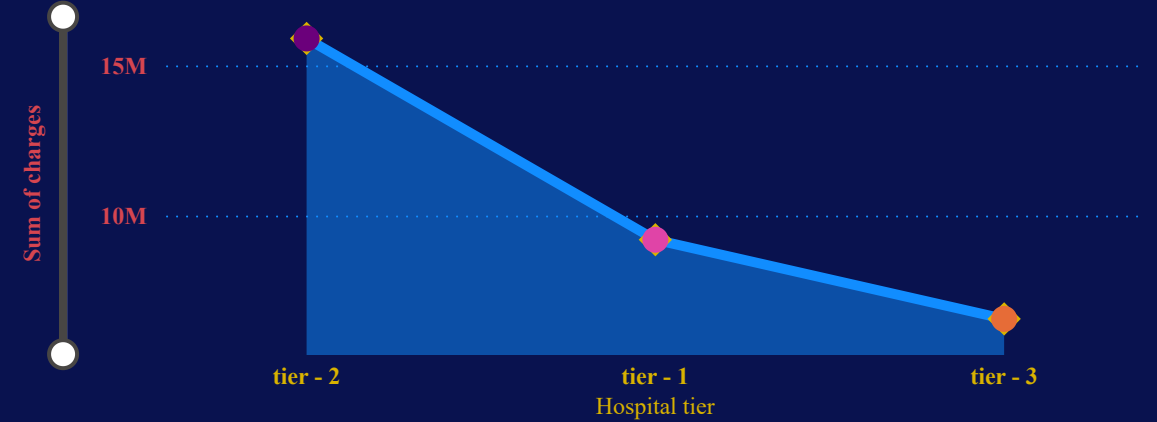
HIGHEST AVERAGE CHARGES BY CITY TIER

100%



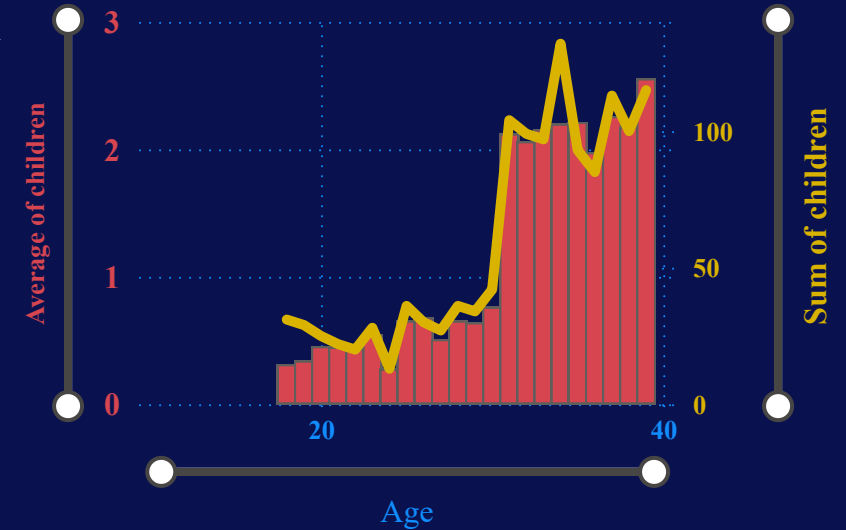
92.7%

SUM OF CHARGES BY HOSPITAL TIER



AVERAGE AND SUM OF CHILDREN BY AGE

- Average of children
- Sum of children





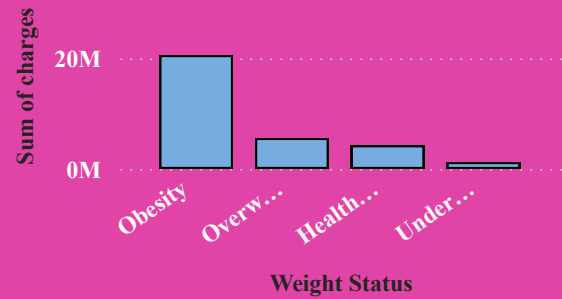
BACK

HEALTHCARE TRENDS AND ANALYTICS

COUNT OF CANCER HISTORY BY SMOKER



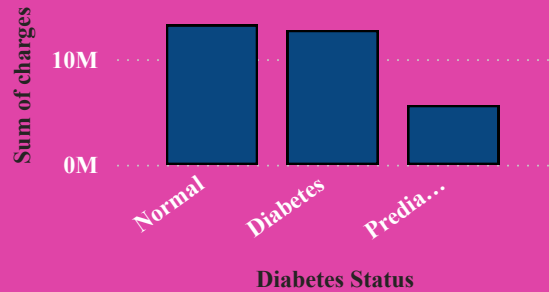
SUM OF CHARGES BY WEIGHT STATUS



AVERAGE OF CHARGES BY STATE ID



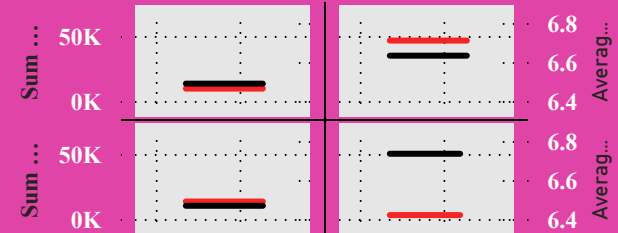
SUM OF CHARGES BY DIABETES STATUS



AVERAGE OF HBA1C BY ANY TRANSPLANTS



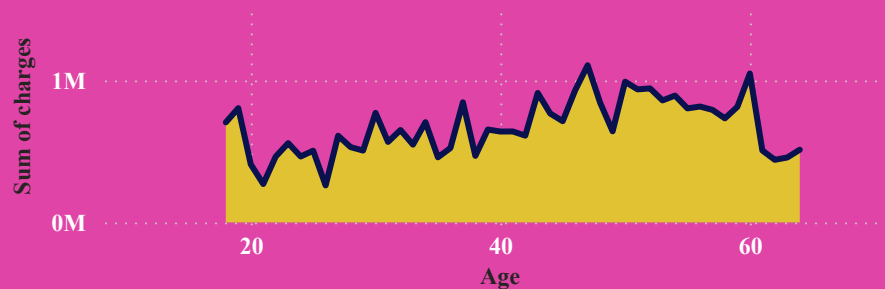
SUM OF BMI AND AVERAGE OF HBA1C BY AGE AND WEIGHT STATUS



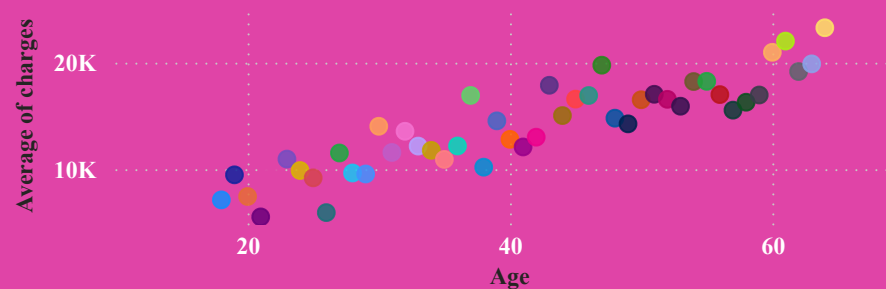
SUM OF NUMBER OF ANY MAJOR SURGERIES BY ANY TRANSPLANT



SUM OF CHARGES BY AGE



AVERAGE OF CHARGES BY AGE



AVERAGE OF CHARGES BY HOSPITAL TIER

