



Axon Healthcare Analysis





Analysis Presented By -

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Project Overview

This project presents a comprehensive Healthcare Data Analytics Dashboard built using Excel, Power BI, and Tableau to monitor and analyze patient and doctor-related information. The goal is to provide meaningful insights for healthcare decision-making.



Key Highlights

- Total Patients: ~10,000+ across major U.S. states & cities
- Total Doctors: ~1,000 across multiple specialties
- Average Patient Age: 49 years
- Average Treatment Cost: ~\$2,500 per patient
- Follow-up Rate: ~50%

Patient insights

·Visits Trend: Monthly visits range between 70–120 patients.

·Diseases: Major cases include Asthma, Diabetes, Hypertension, Migraine, and Chronic Pain.

·Age Groups: Majority patients are 40+ years, highlighting chronic condition management.

·Gender Distribution: Balanced ratio with male, female, and others.

·Visit Types: Emergency, Routine Checkups, Specialist Consultations, and Follow-ups each contribute ~25%.



Doctor insights

·Specialties: Cardiology, General Medicine, Pediatrics, Orthopedics, and Neurology.

·Experience: Average doctor experience is ~21 years.

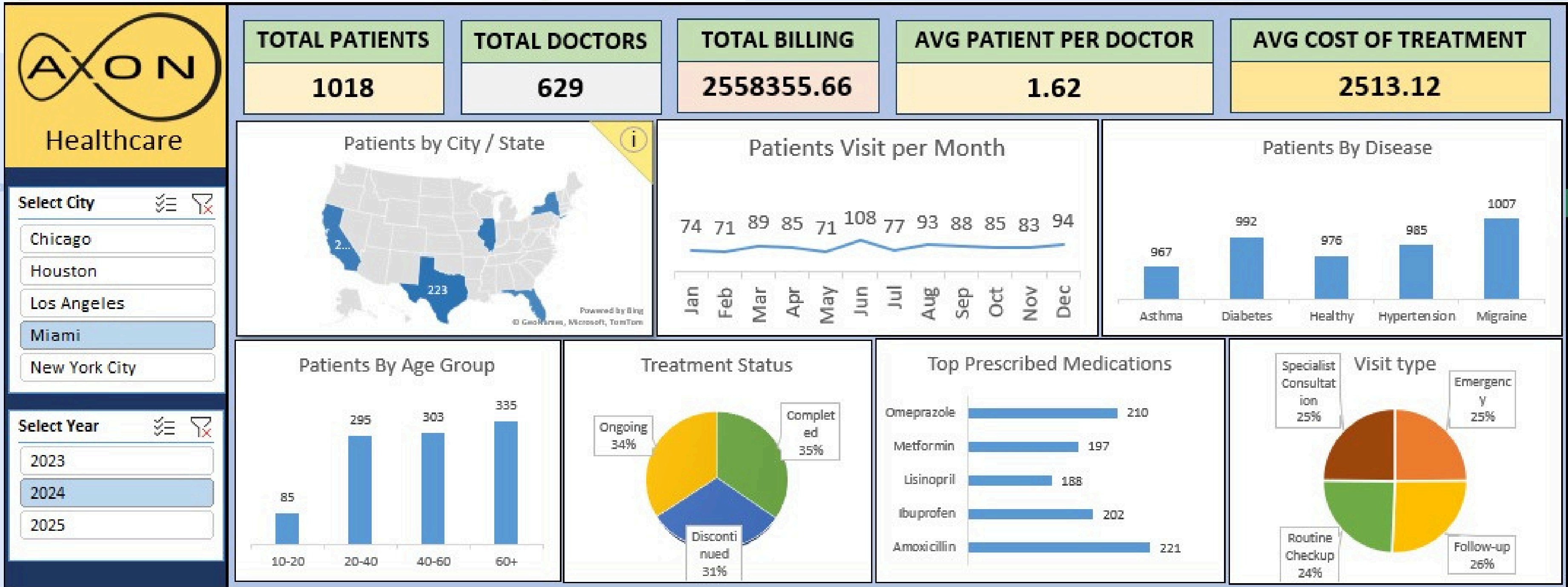
·Patient Load: Average of 10 patients per doctor; workload distribution is balanced.

·Prescriptions: Common medicines include Omeprazole, Metformin, Ibuprofen, Amoxicillin.

·Treatment Costs: Highest costs observed in Cardiology and General Medicine.



Dashboards Created in Excel, PowerBI & Tableau



QA Testing With SQL Queries



Display total doctors

```
SELECT COUNT(DISTINCT `Doctor ID`) AS Total_Doctors FROM `healthcare master data`;
```

Display average doctor experience

```
SELECT ROUND(AVG(`Doctor Years Of Experience`), 0) AS AVG_Doctor_Experience FROM `healthcare master data`;
```

Display average patients per doctor

```
SELECT ROUND(COUNT(`Patient ID`) / COUNT(DISTINCT `Doctor ID`), 0) AS AVG_Patient_Per_Doctor FROM `healthcare master data`;
```

Display total tests and test results

```
SELECT `Lab result.Test Name` AS Test_Name, COUNT(*) AS Total_Tests, SUM(CASE WHEN `Lab result.Test Result` = 'Normal' THEN 1 ELSE 0 END) AS Normal_Count, SUM(CASE WHEN `Lab result.Test Result` = 'Abnormal' THEN 1 ELSE 0 END) AS Abnormal_Count, SUM(CASE WHEN `Lab result.Test Result` = 'Pending' THEN 1 ELSE 0 END) AS Pending_Count FROM `healthcare master data` GROUP BY `Lab result.Test Name`;
```




Thank you

