Hospital Emergency Room Dashboard

Overview

The **Hospital Emergency Room Dashboard** is an interactive Excel-based analytics report designed to visualize key hospital performance metrics.

It helps management and healthcare professionals quickly monitor **admissions**, **patient demographics**, **departmental referrals**, **satisfaction**, **and service efficiency** within the emergency department.

This dashboard combines clean design with meaningful KPIs offering a real time, datadriven view of hospital operations.

III Key Insights & Features

♦ 1. Admission Summary

Displays total **Admitted** and **Not Admitted** patients with percentage contribution for quick comparison.

Status Patients % of Total

Admitted 2215 50%

Not Admitted 2225 50%

♦ 2. Patient Gender & Timeliness

Two donut charts visualize:

- **Gender distribution** of patients (Male vs Female)
- On-time vs Delayed treatment ratio

These metrics help in identifying process bottlenecks and service delays.

3. Patient Age Group Distribution

A horizontal bar chart shows the **number of patients across different age groups (0–70)**. It helps determine which age group uses emergency services most frequently.

♦ 4. Departmental Referrals

Visualizes how many patients were referred to various departments such as:

- General Practice
- Physiotherapy
- Gastroenterology
- Renal
- None

This enables understanding of which departments handle the most emergency referrals.

♦ 5. KPI Metrics (Cards)

At the bottom of the dashboard, three KPI cards summarize:

- Total Patients: 4,440
- Patient Satisfaction: ద 5.04 / 6
- Average Wait Time: ① 35.06 minutes

These highlight the hospital's key operational performance indicators.

♦ 6. Monthly Trend Filter

A clean monthly slicer (Jan–Dec) allows users to filter all visuals by month — helping analyze seasonal patterns in hospital visits.

Tools & Techniques Used

- Microsoft Excel (Power Pivot + Charts + Slicers)
- Data Modeling using Pivot Tables
- Conditional Formatting & KPI Cards
- Donut & Bar Chart Visualizations

Dynamic Slicer-based Filtering

How to Use

- 1. **Open the Dashboard:** Enable content and macros (if prompted).
- 2. Navigate to the "Dashboard" sheet.
- 3. Use **month slicers** to filter data dynamically.
- 4. Explore **charts and KPIs** to analyze hospital performance.
- 5. Refresh data if connected to Power Query or database.

Data Structure

Column Name Description

Age Group Patient age bracket

Admission Status Admitted / Not Admitted

Department Referred department

Gender Male / Female

Satisfaction Score Survey-based rating

Wait Time Average time (minutes)

Insights Summary

- Equal distribution between admitted and not admitted patients.
- **Delays (58%)** indicate room for process improvement.
- Young adults (20–29) form the largest age group in emergency visits.
- General Practice handles most referrals (35%).
- Satisfaction remains high (5.04) despite moderate waiting times.

? Conclusion

The Hospital Emergency Room Dashboard transforms raw patient data into **actionable insights**.

It enables hospital administrators to:

- Track patient flow
- Monitor departmental workload
- Identify service delays
- Improve patient satisfaction and efficiency

This dashboard serves as a great example of **Excel-based data visualization for healthcare analytics** blending design, functionality, and real-world insights.

File Details

- File Name: Emergency_Hospital_Dashboard.xlsx
- **Size:** 1.17 MB
- Sheets Included:
 - Dashboard (Main Visual Report)
 - Pivot Table
 - o Customer Satisfaction Full chart
 - Total Average of Customer Full chart
 - o Daily Visit Emergency Room Full chart