

Comprehensive Healthcare Insights

I have created three dashboards based on the business problems and find overviews for healthcare.

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Billing & Revenue Analysis - Overview

This dashboard provides a comprehensive view of the hospital's financial performance through key billing and payment insights.

Key Features:

- The hospital generated a **total revenue of ₹5,51,249.85** from **200 issued bills**, with an **average bill amount of ₹2,756.25**.
Monthly revenue peaked in **April at ₹64,000**, while the lowest revenue was recorded in **December at ₹28,000**, reflecting seasonal performance patterns.
Out of the total billing amount, **₹1,93,210 (35.05%)** has been successfully **paid**, **₹1,84,610 (33.49%)** is still **pending**, and **₹1,73,420 (31.46%)** has **failed**, highlighting significant gaps in payment completion.
- **Payment mode split** shows that **Credit Card transactions contributed ₹2,01,380 (36.53%)**, followed by **Insurance payments at ₹1,82,160 (33%)**, and **Cash payments at ₹1,67,710 (30.42%)**.
Top treatments by revenue include **Chemotherapy generating ₹1,28,855.68**, **MRI contributing ₹1,16,098.16**, and **X-Ray adding ₹1,10,653.67**, making these the hospital's most profitable services.

Purpose:

To help hospital administrators and finance teams track revenue, understand cash flow, and optimize billing processes.

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Doctor & Treatment Insights - Overview

This dashboard focuses on doctor performance, treatment efficiency, and cost distribution across the healthcare facility.

Key Features:

There are a total of **10 doctors** serving in the hospital, with specialization distribution as follows: **5 doctors in Pediatrics**, **3 in Dermatology**, and **2 in Oncology**, indicating a stronger presence in child healthcare.

The **total cost of all treatments is ₹5,51,250**, and the **average treatment cost per patient is ₹2,756.25**.

Description types of treatments show that **Standard Procedures generated ₹2,04,650**, **Basic Screenings brought in ₹1,82,640**, and **Advanced Protocols contributed ₹1,63,960**, suggesting a high demand for routine and early-stage treatments.

Doctor appointments reveal that **Sarah Taylor had the highest number with 29 appointments**, followed by **David Taylor with 25**, and **Alex Davis with 24**, indicating their pivotal role in patient interactions.

Most frequent treatments based on description count are **Chemotherapy (49 cases)**, **X-Ray (41 cases)**, and **ECG (38 cases)**, highlighting the hospital's focus on oncology and diagnostics.

Among the staff, **David Jones is the most experienced doctor with 28 years**, followed by **Robert Davis with 26 years**, reflecting a skilled and senior medical team.

Purpose:

To support resource planning, doctor performance reviews, and treatment strategy optimization.

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Patient Overview – Overview

This dashboard provides a detailed summary of the patient demographics, visit behaviour, and care flow.

Key Features:

The hospital served a total of **50 patients**, with an **average treatment cost per patient of ₹11,025**, and a **patient-to-doctor ratio of just 0.20**, allowing for highly individualized care.

Age distribution among patients reveals that **44% are Adults**, **36% are Young**, and **20% are Senior Citizens**, showing a balanced mix of patient age groups.

Gender breakdown indicates that **62% of patients are Female (31 individuals)**, while **38% are Male (19 individuals)**, which may influence the types of services in demand.

Patients visited the hospital primarily for **Emergency care**, **Follow-up treatments**, **Consultations**, **Checkups**, and **Therapy**, reflecting both critical and routine care needs.

Purpose:

To help the hospital understand patient profiles, optimize care delivery, and ensure balanced doctor assignments.

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