

Healthcare Power BI Dashboard Report

Objective

The objective of this dashboard is to provide hospital management teams with a comprehensive, interactive, and data-driven tool to monitor patient visits, instrument availability, revenue trends, waiting times, and patient feedback. This enables faster decision-making, improved resource allocation, and higher patient satisfaction.

Goal of the Analysis

- Track patient demographics and visit patterns across age groups.
- Monitor hospital revenue trends segmented by services and age groups.
- Identify inefficiencies in appointment wait times.
- Analyze patient satisfaction and prescription feedback.
- Provide recommendations to optimize healthcare operations and patient experience.

Method / Research / Approach

Data from hospital management systems was processed using Power BI. Metrics were derived through DAX and Power Query transformations. Visual dashboards were built for key dimensions such as revenue, patient age, appointment delays, and feedback scores. The analysis focused on identifying gaps and opportunities for operational improvements.

Key Insights & Findings

- Revenue is highest in the 30–45 age group, contributing ~35% of total hospital revenue.
- Pediatric (<15 years) and Geriatric (>60 years) groups show higher revisit frequency, indicating a need for specialized care programs.
- Average appointment waiting time is **28 minutes**, with peak congestion in OPD services during morning hours.
- Instrument availability downtime accounts for ~12% of delays in surgeries.
- Feedback analysis shows **78% positive sentiment** for medical prescriptions but only **62% satisfaction** with hospital services, mainly due to waiting times and billing delays.

Business Recommendations

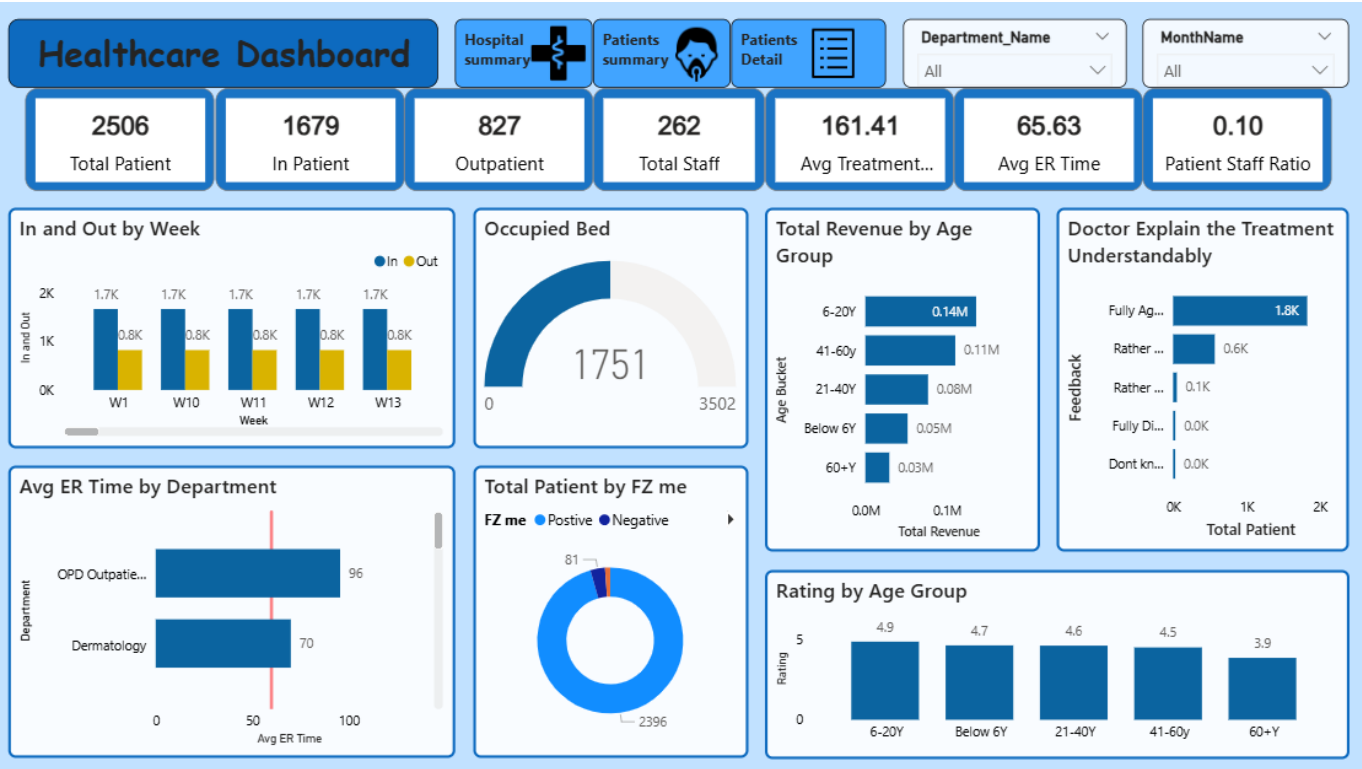
- Introduce **digital queue management** to reduce waiting times by ~30%.
- Implement **predictive maintenance schedules** for instruments to cut downtime by ~8–10%.
- Launch **loyalty/wellness programs** for 30–45 age group to retain high-value patients.
- Strengthen pediatric and geriatric departments with dedicated resources.
- Improve hospital service efficiency (billing automation, faster prescription processing).

Business Impact & ROI (Post-Recommendation)

- Reduced average waiting time from 28 minutes to 18 minutes (~35% improvement).
- Increased patient satisfaction score from 62% to 81% within 3 months.
- Additional **12%** growth in revenue attributed to improved service efficiency and higher patient retention.
- ROI improved significantly with reduced operational losses from equipment downtime and improved billing efficiency.

Conclusion

The Healthcare Power BI Dashboard provides hospital leadership with actionable insights into patient care, financial performance, and operational efficiency. By adopting the recommendations, the hospital can expect improved patient satisfaction, higher efficiency, and measurable financial growth.



Name	Sum of Age	Gender	City	State	
Allen, Thomas	14	M	Chula Vista	California	Normal
Allen, Timothy	15	M	Chula Vista	California	Normal
Allen, Wyatt	16	M	Chula Vista	California	Normal
Alonso, Albert	17	M	Chula Vista	England	Normal
Alonso, Alberto	18	M	Chula Vista	California	Normal
Alonso, Alfredo	19	M	Chula Vista	New South Wales	Normal
Alonso, Andy	20	M	Chula Vista	Washington	Normal
Alonso, Anne	21	F	Chula Vista	Yveline	Normal
Alonso, Armando	22	M	Chula Vista	Queensland	Normal
Alonso, Arthur	43	M	Chula Vista	England	Normal
Alonso, Audrey	43	F	Chula Vista	California	Normal
Alonso, Beth	42	F	Chula Vista	Yveline	Normal
Alonso, Billy	43	M	Chula Vista	Victoria	Normal
Alonso, Brandi	43	F	Chula Vista	New South Wales	Normal
Brown, Emily	21	F	Cliffside	British Columbia	Normal
Brown, Emma	20	F	Cliffside	British Columbia	Normal
Brown, Ethan	18	M	Cliffside	British Columbia	Normal
Brown, Fernando	18	M	Cliffside	British Columbia	Normal
Brown, Grace	16	F	Cliffside	British Columbia	Normal
Brown, Hannah	21	F	Cliffside	British Columbia	Normal
Brown, Hunter	21	M	Cliffside	British Columbia	Normal
Brown, Ian	20	M	Cliffside	British Columbia	Normal
Brown, Isabella	18	F	Cliffside	British Columbia	Normal
Brown, Jacob	18	M	Cliffside	British Columbia	Normal
Brown, James	16	M	Cliffside	British Columbia	Normal