



Welcome Everyone Here is The Project Overview

Title:

Project Objective & Scope

Content:

- Dbjective: To improve hospital efficiency, patient care, and decision-making through dynamic dashboards.
- Scope: 5 dashboards covering emergency trends, patient insights, referrals, billing, doctor load, and more.
- Tools Used: Power BI, DAX





Business Requirements

Title:

Key Metrics & Stakeholder Needs Content (use bullet points or icons):

- Total Patients, Wait Time, Referrals, Bed Usage
- Patient Satisfaction, Feedback by Doctor
- 🖺 Billing: Insurance vs. Self-paid
- 👽 🔁 Doctor Load, Department Efficiency
- © Stakeholders: Admin, ER Head, Analysts, IT



Month Name ×

MONTHLY VIEW

Feb 2024







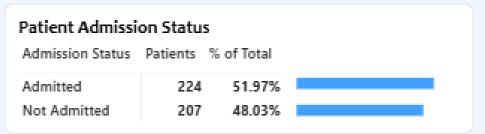


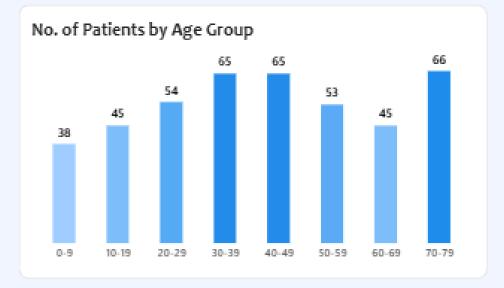
Monthly View

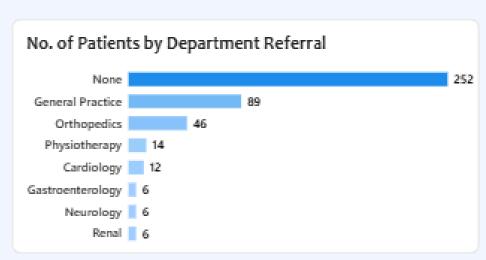
Consolidated View

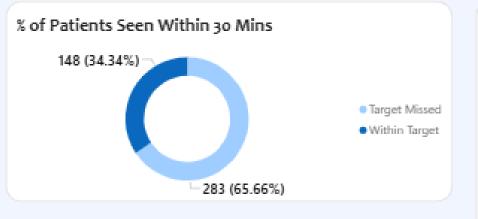
Patients's Details

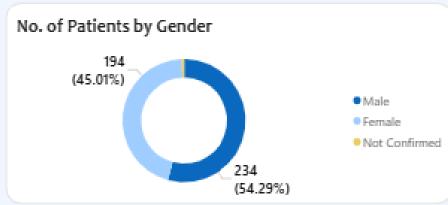
Key Takeaway

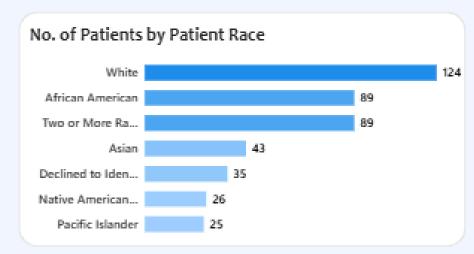


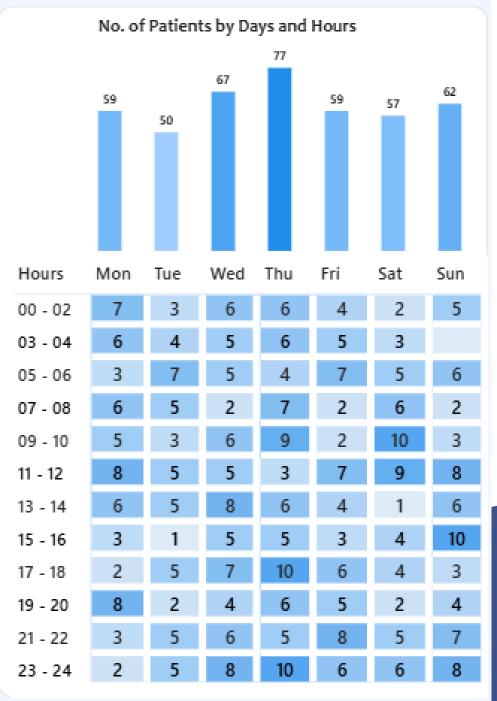






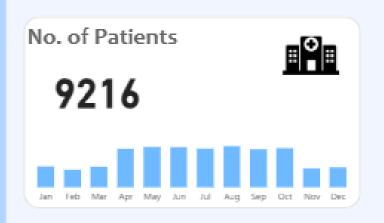


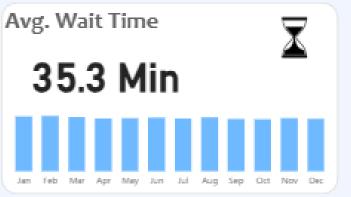




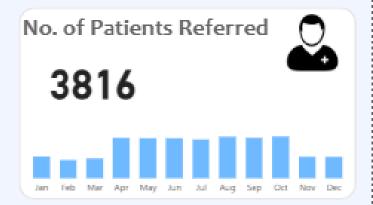
01-04-2023 = 30-10-2024 =

CONSOLIDATED VIEW







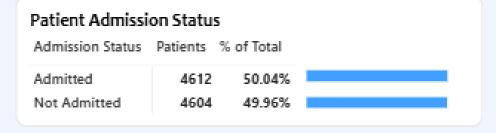


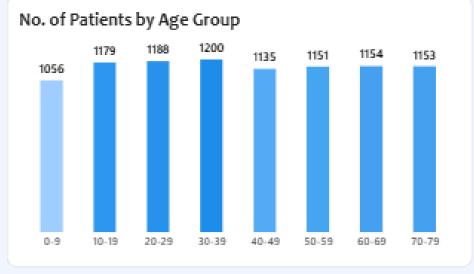
Monthly View

Consolidated View

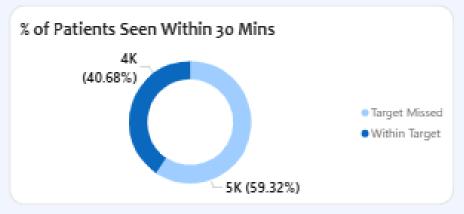
Patients's Details

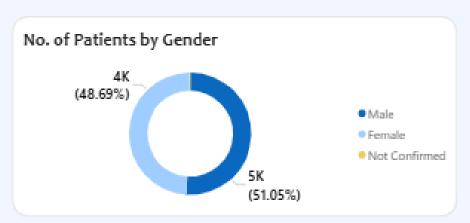
Key Takeaway

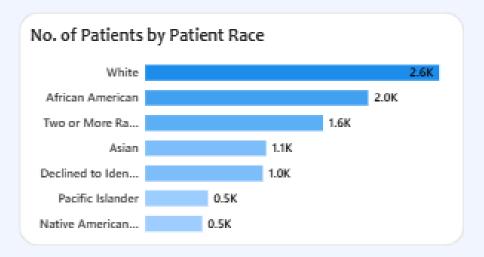


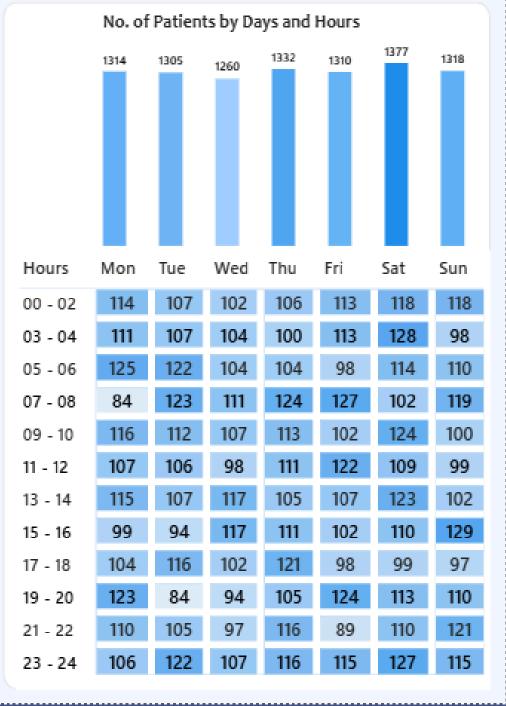














01-04-2023 = 30-10-2024 =

PATIENT'S DETAILS

101-63-3628

P Quest

Male

Patient Id	Patient's Name	Patient Gender Patie	nt Age	Patient Admin Date	Patient Race	Patient Waittime		Department Referral	Admission Status
100-04-3993	M St Ange	Female	29	04 April 2023	White		16	None	Not Admitted
100-17-5081	V Flicker	Male	67	14 January 2024	African American		60	None	Not Admitted
100-21-9648	W Marran	Female	39	17 January 2024	Pacific Islander		22	None	Admitted
100-34-6753	B Paulus	Male	43	13 May 2024	Pacific Islander		25	General Practice	Admitted
100-34-9587	U Lamburn	Male	20	01 April 2024	Declined to Identify		24	Neurology	Not Admitted
100-40-2709	O Cammack	Male	77	08 May 2024	White		48	None	Not Admitted
100-66-0896	I Prickett	Male	2	26 March 2024	African American		23	Orthopedics	Admitted
100-66-8222	F Mullane	Female	65	23 December 2023	Asian		17	General Practice	Not Admitted
100-67-1276	S Hallbird	Male	55	03 November 2023	White		11	Orthopedics	Admitted
100-70-0071	R Downham	Male	38	14 January 2024	African American		57	None	Not Admitted
100-72-5705	N Dudny	Female	60	19 June 2024	African American		45	None	Admitted
100-74-3943	M Hallard	Female	3	17 September 2023	White		14	None	Admitted
100-74-5636	A Warwicker	Female	47	13 August 2024	Declined to Identify		25	None	Not Admitted
100-79-0109	P Ulyatt	Female	19	27 February 2024	Pacific Islander		36	Neurology	Admitted
100-81-9769	Y Moncaster	Male	28	09 March 2024	White		59	None	Admitted
100-84-7203	K Ybarra	Female	37	13 June 2023	White		55	None	Not Admitted
101-08-8798	L Willeson	Female	72	31 July 2024	Two or More Races		48	None	Admitted
101-13-4808	V Gowdridge	Female	30	25 April 2023	Declined to Identify		30	None	Admitted
101-35-3930	W Andreotti	Female	30	24 January 2024	White		25	None	Admitted
101-35-7039	T Ganter	Male	26	08 February 2024	White		56	General Practice	Admitted
101-38-5868	J Saddington	Male	14	08 October 2024	White		20	None	Admitted
101-50-7359	D Sabey	Female	50	13 October 2023	White		56	None	Admitted
101-56-3319	M Kilduff	Female	44	08 October 2023	Asian		55	None	Admitted
101-60-5189	G Georger	Female	45	04 August 2024	White		43	None	Not Admitted

Two or More Races

53 None

Not Admitted

38 29 July 2023

Monthly View

Consolidated View

Patients's Details

Key Takeaway



KEY-TAKEAWAYS

Descriptive Analysis

(April 2023 - October 2024)

The emergency room dataset, covering a period of 19 months, records a total of 9,216 unique patients.

Patients Wait Time and Satisfaction:

The Average wait time was approximately 35.3 minutes, including a need for improvement to enhance patient flow. The average satisfaction score was 4.99 out of 10, suggesting moderate satisfaction and highlighting areas of improving patients experiences.

Monthly View

Departmental Referrals:

A significant number of patients (5400) did not required referrals. Among those referred, the most common were General Patients (1840 cases) and Orthopedics (995 cases), followed by Physiotherapy (276 cases) and Cardiology (248 cases)

Consolidated View

Peak Busy Periods:

The busiest day were Mondays(1377 patients), Saturdays(1322 patients), and Tuesdays (1318 patients). The busiest hours were 11 AM, 7 PM, 01 PM, 11PM indicating need of ample staffing during these periods.

Patients's Details

Patients Demographics:

Age Group: Adults (30-39 years) formed a large group (1200 patients), followed by young adults (20-29 years) with 1188 patients. Other significant groups included middle aged as well (40-50 years).

Key Takeaway

Race Distributions:

The largest racial group was White (2571), followed by African American (1951), multi racial (1557), and Asian (1060) patients. A significant number of patients (1030) declined to identify their race.

Admissions Patterns:

Nearly half of the patients (4612) were admitted, while the rest (4604) were treated and released.

Summary:

The data set reveals high patients volumes, moderate satisfaction levels, and common referrals to general practices and orthopedics. Mondays and late night to early mornings hours are particularly busy. The patients demographics show a diverse age and racial composition, with nearly equal number of admitted and non admitted patients. These insight can help optimize resource allocations and improved patients care in the emergency room



Hospital's Operations Managment Dashboard

Patient_ID



Admit Date
05-Dec-22



Discharge Date

12-Jan-23



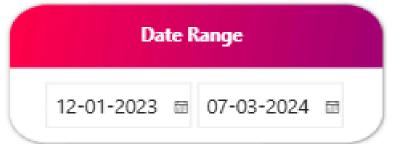
Follow Up Date

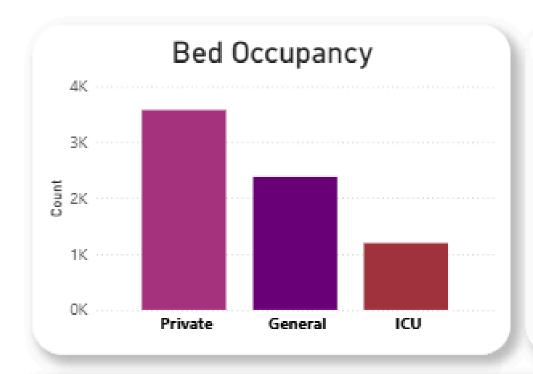
10-Dec-22

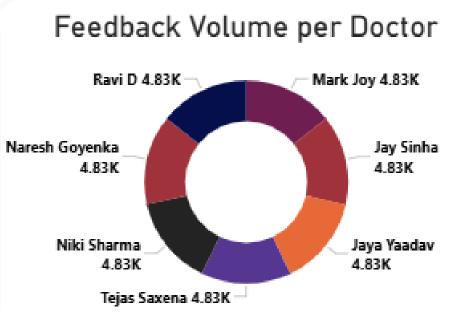


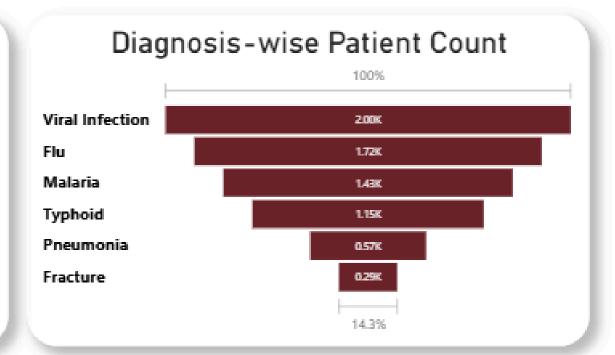
Bill Amount

₹190.43M













Thank You

Q And A Session