Healthcare Claims Performance Dashboard

Portfolio Project | Power BI | Healthcare Analytics

An analytical dashboard showcasing claims performance, cost drivers, and operational insights to support data-driven healthcare insurance decisions.

■ Portfolio Summary

This dashboard analyzes healthcare claims data to uncover cost drivers, approval efficiency, utilization trends, and patient demographics, demonstrating strong data storytelling and business-focused analytics.

■ Key Insights

• 85% approval rate indicates efficient claims processing.

• Neurology and Cardiology are the primary cost-driving departments.

• Balanced mix between Government and Private insurance claims.

• Al Salam Hospital shows the highest utilization.

• Claims peak between March and May, indicating seasonal trends.

• Stroke, Seizures, and Imaging procedures drive the highest costs.

• Highest utilization among patients aged 30–60 with balanced gender distribution.

■ Skills Demonstrated
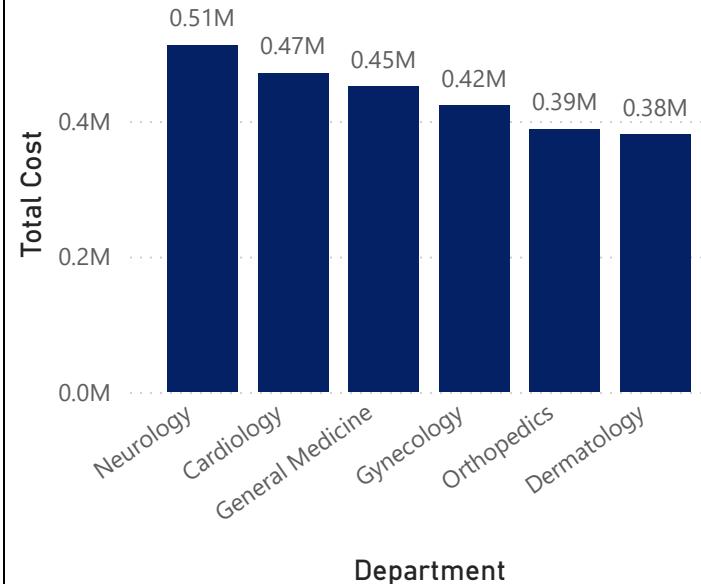
Power BI • DAX • KPI Design • Healthcare Analytics • Data Visualization • Business Insight Generation

Healthcare Claims Performance Dashboard

500	3M	5.25K	426	85%
Total Claims	Total Cost	Average Claim Cost	Approved Claims	Approval Rate

Total Cost by Department

Department	Total Cost
Neurology	0.51M
Cardiology	0.47M
General Medicine	0.45M
Gynecology	0.42M
Orthopedics	0.39M
Dermatology	0.38M
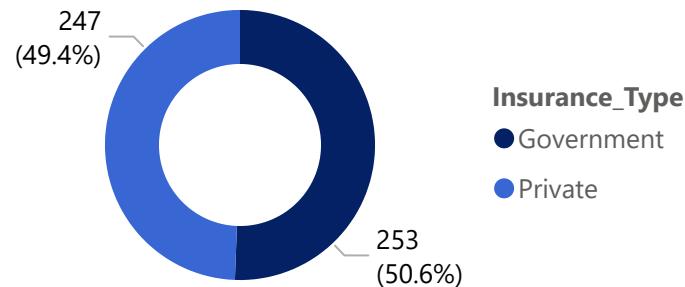
Claims by Insurance Type

Insurance_Type:
- Government: 253 (50.6%)
- Private: 247 (49.4%)

Claims by Hospital

Hospital	Total Claims
Al Salam Hospital	184
Al Noor Hospital	160
City Care Hospital	156
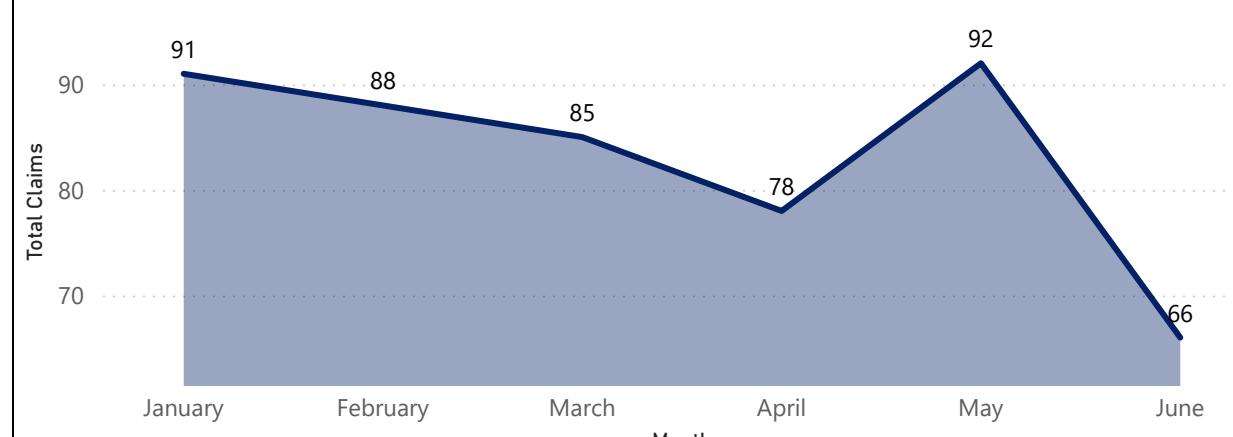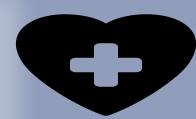
Monthly Cost Trend

Month	Total Cost
January	453K
February	425K
March	479K
April	442K
May	475K
June	349K

Monthly Claim Trend

Month	Total Claims
January	91
February	88
March	85
April	78
May	92
June	66

Healthcare Claims Performance Dashboard
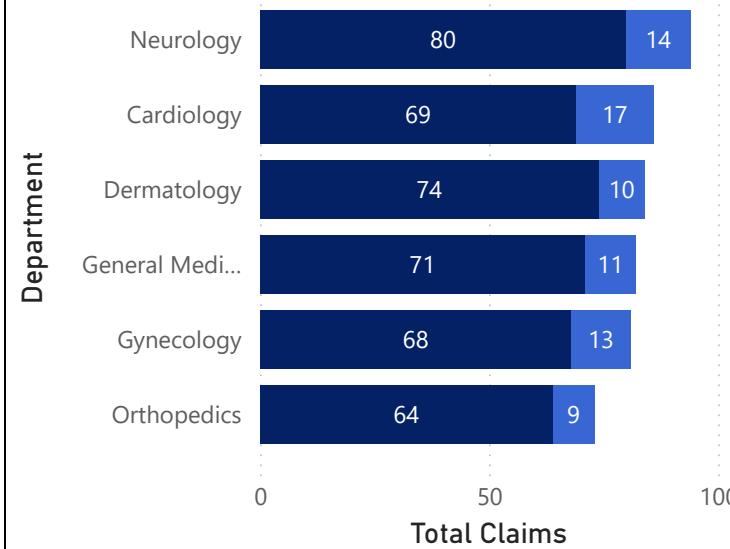
Approved vs Rejected by Department

Claim_Status: ● Approved ● Rejected

Department	Approved	Rejected
Neurology	80	14
Cardiology	69	17
Dermatology	74	10
General Medi...	71	11
Gynecology	68	13
Orthopedics	64	9
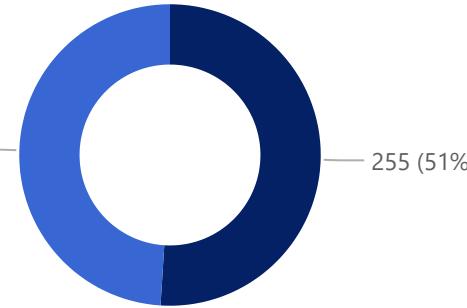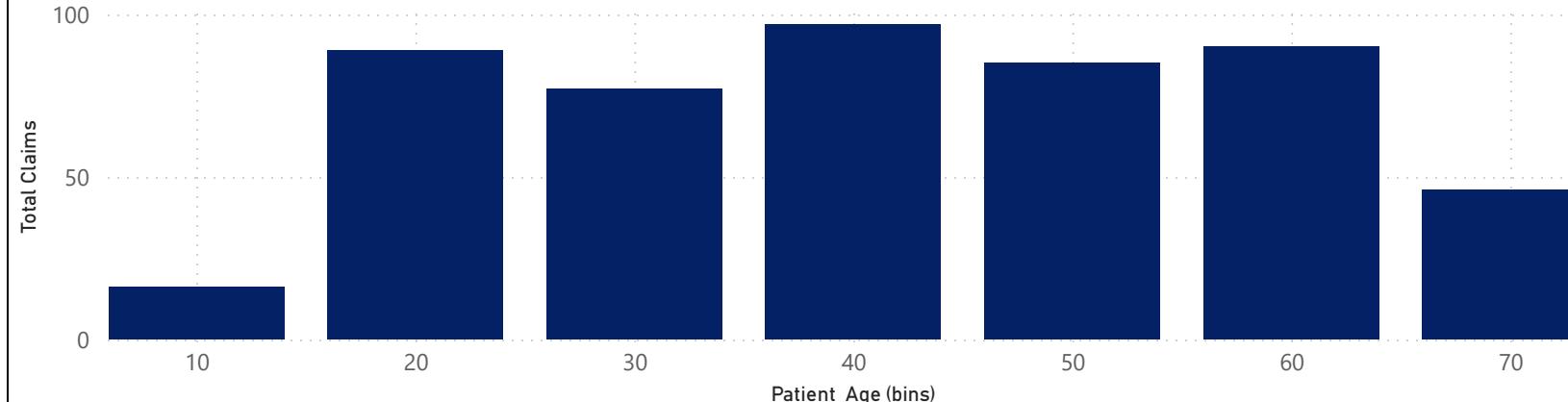
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Total Claims	Total Cost	Average Claim Cost	Approved Claims	Approval Rate

Claims by Gender

245 (49%)   255 (51%)

Gender: ● Female ● Male

Top Diagnoses by Cost

Diagnosis	Total Claims	Total Cost	Average Claim Cost
Stroke	34	190,692	5,608.59
Seizure	33	176,835	5,358.64
Flu	31	146,579	4,728.35
Ultrasound	30	182,247	6,074.90
Eczema	29	139,796	4,820.55
Fever	29	173,353	5,977.69
Pregnancy Checkup	29	136,489	4,706.52
Skin Allergy	28	142,904	5,103.71
Acne	27	97,139	3,597.74
Migraine	27	144,204	5,340.89
Chest Pain	23	128,930	5,605.65
Hypertension	23	132,824	5,774.96
Infection	22	131,092	5,958.73
Routine Checkup	22	104,351	4,743.23
Arrhythmia	21	102,289	4,870.90
Knee Injury	21	100,464	4,784.00
Arthritis	20	110,648	5,532.40
Fracture	20	122,710	6,135.50
Heart Disease	19	106,379	5,598.89
Back Pain	12	54,083	4,506.92

Age Analysis

Patient_Age (bins) vs Total Claims