

Cumulative Statistical Report

Federal Ministry of Health - Free Heart Surgery Program

National Center for Heart Diseases and Surgery

📅 Data Period: April 2018 - September 2025

📌 Executive Summary

This report presents cumulative statistics for free heart surgery procedures conducted under the Federal Ministry of Health's program from April 2018 to September 2025.

📍 Interventional Cardiology

46,461

Highest volume in 2019 (8,162 procedures), followed by 2022 (8,090)

Top Center: Al-Shaab Teaching Hospital (27.1%)

👤 Pediatric Heart Surgery

1,131

Peak in 2022 (647 procedures, 57.2% of total)

Top Center: Ahmed Qasim Hospital (35.6%)

❤️ Open Heart Surgery

298

Started in 2024, significant increase in 2025 (226 procedures)

Exclusively at: Al-Daman Hospital - Marawi

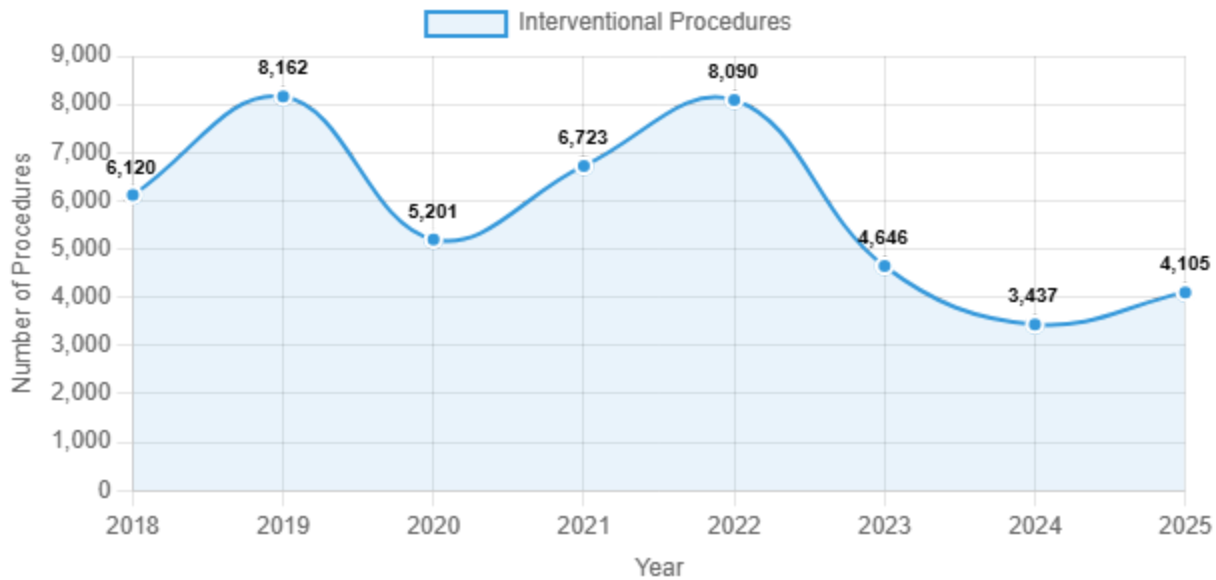
📈 **Trend Analysis:** Interventional procedures peaked in 2019 and 2022, with a noticeable decline in 2023-2024. Pediatric surgery started in 2022 with a strong first year (647 procedures), while open heart surgery is the newest service (started 2024) showing rapid growth in 2025.

Interventional Cardiology Procedures

Started in April 2018. Total procedures from April 2018 to September 2025: **46,461**

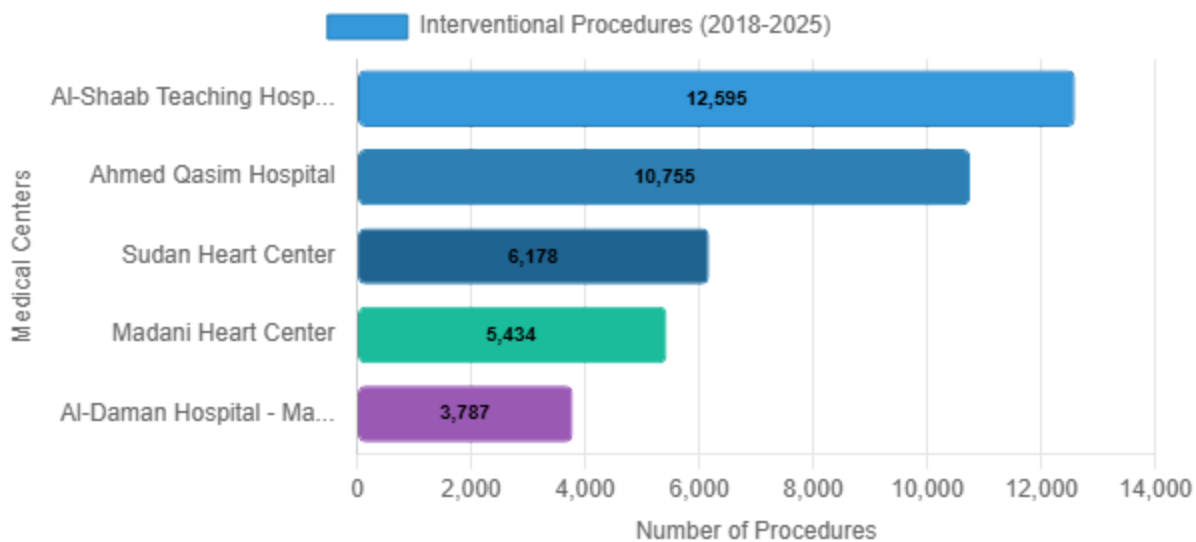
Interventional Cardiology Trends (2018-2025)

Annual procedure volume with trend analysis



Top Medical Centers by Procedure Volume

Cumulative procedures from 2018 to September 2025



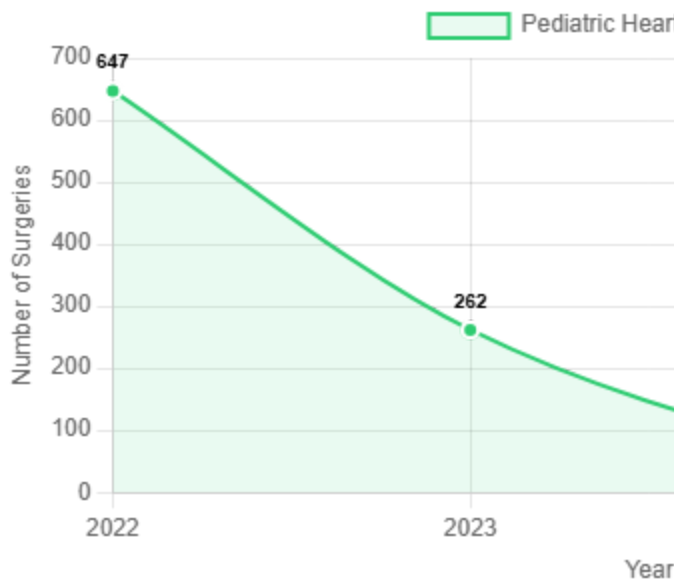
🏥 Pediatric Heart Surgery

Started in 2022. Total pediatric heart surgeries from 2022 to September 2025: **1,131**

Center	2022	2023	2024	2025	Total	Percentage
Ahmed Qasim Hospital	318	85	0	0	403	35.6%
Sudan Heart Center	237	64	0	0	301	26.6%
Al-Daman Hospital - Marawi	0	0	80	142	222	19.6%
Madani Heart Center	92	113	0	0	205	18.1%
Total	647	262	80	142	1,131	100.0%

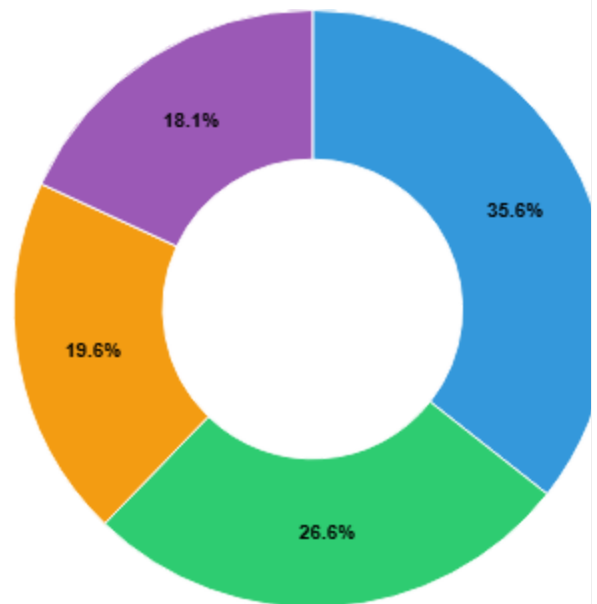
📈 Pediatric Surgery Trends

Yearly volume with center distribution



📊 Center Distribution

Share of pediatric surgeries by medical center



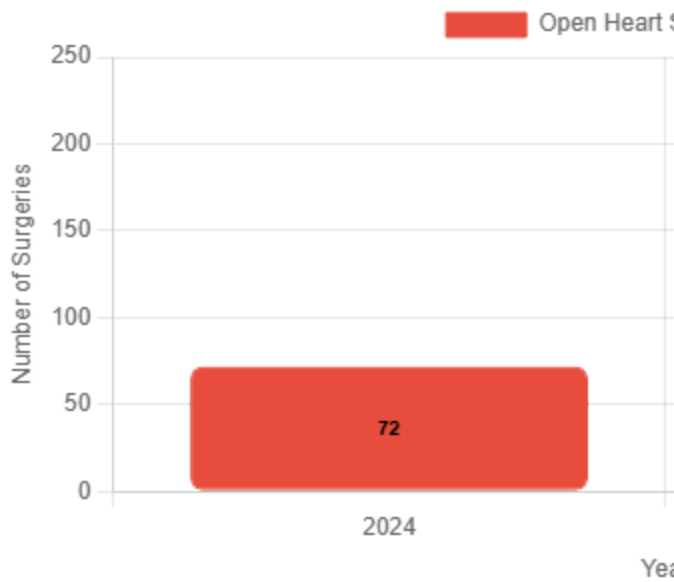
♥ Open Heart Surgery

Started in 2024. Service provided exclusively at Al-Daman Hospital - Marawi.

Year	Procedures	Percentage
2024	72	24.2%
2025	226	75.8%
Total	298	100.0%

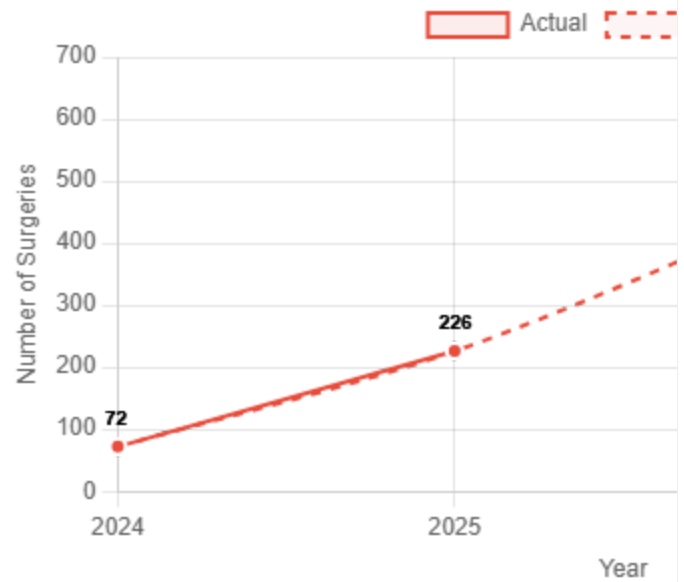
Open Heart Surgery Growth

Year-over-year comparison showing rapid expansion



Projected Growth Trend

Based on current growth rate (2024-2025)



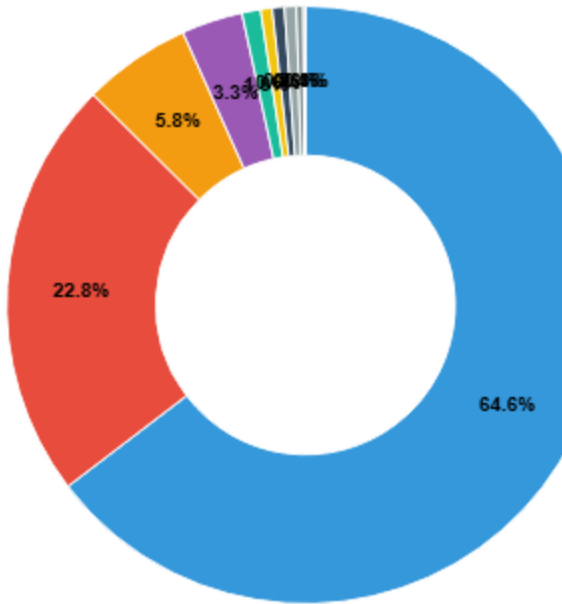
Interventional Procedure Types

Breakdown of interventional cardiology procedures by type (2019-2025)

Procedure Type	Total	Percentage
Diagnostic	26,082	64.6%
PCI (Percutaneous Coronary Intervention)	9,207	22.8%
VVIR Pacemaker	2,359	5.8%
DDDR Pacemaker	1,338	3.3%
PTMC (Percutaneous Transvenous Mitral Commissurotomy)	408	1.0%
Pulmonary Valvuloplasty	252	0.6%
VDD Pacemaker	264	0.7%
Pediatric PDA Closure	259	0.6%
Pediatric Diagnostic	145	0.4%
ASD Device Closure	49	0.1%
Total (2019-2025)	40,363	100.0%

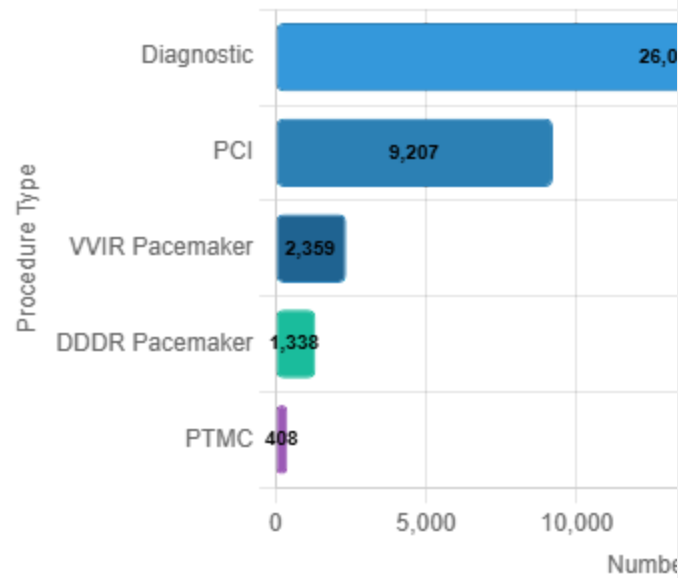
Procedure Type Distribution

Breakdown of all interventional procedures



Top 5 Procedure Types

Most performed procedures by volume



■ Diagnostic (64.6%) ■ PCI (22.8%) ■ VVIR Pacemaker (5.8%) ■ DDDR Pacemaker (3.3%) ■ Other Procedures (3.5%)

Centers Performance Summary

Top performing centers across all procedure types (2018-2025)

Center	Interventional	Pediatric	Open Heart	Total
Al-Shaab Teaching Hospital	12,595	0	0	12,595
Ahmed Qasim Hospital	10,755	403	0	11,158
Sudan Heart Center	6,178	301	0	6,479
Madani Heart Center	5,434	205	0	5,639
Al-Daman Hospital - Marawi	3,787	222	298	4,307
Al-Mak Nimer University Hospital	2,622	0	0	2,622
Atbara Complex	2,082	0	0	2,082
All Centers Total	46,461	1,131	298	47,890

Federal Ministry of Health - National Center for Heart Diseases and Surgery
Statistics Division | Data Period: April 2018 - September 2025

This report is generated based on cumulative data from the Free Heart Surgery Program. All numbers are subject to verification by the Statistics Division.

Report generated: December 2024