

# National Cardiac Catheterization Report

Intervention Capacity, Activity and War Resilience

📅 Period: 2018 - September 2025

## 📌 Executive Summary

This report analyzes Sudan's interventional cardiac catheterization capacity and procedural activity from 2018 through September 2025. The data shows significant growth in services until 2022, severe disruption during the 2023-2025 conflict period, and a resilient recovery driven by regional centers.


**⚠️ Conflict Impact (April 2023-Present):** The war severely disrupted services in Khartoum where main cardiac centers are located. Three major centers were rendered completely non-operational for several months. Procedure volumes dropped by **over 50%** in 2023 compared to 2022.

**📈 Trend Analysis:** Steady growth from 2018-2022 reflecting increased national capacity. 2022 marked peak performance. Significant disruption in 2023-2025 due to conflict. Modest recovery in 2025 driven by regional centers outside Khartoum.

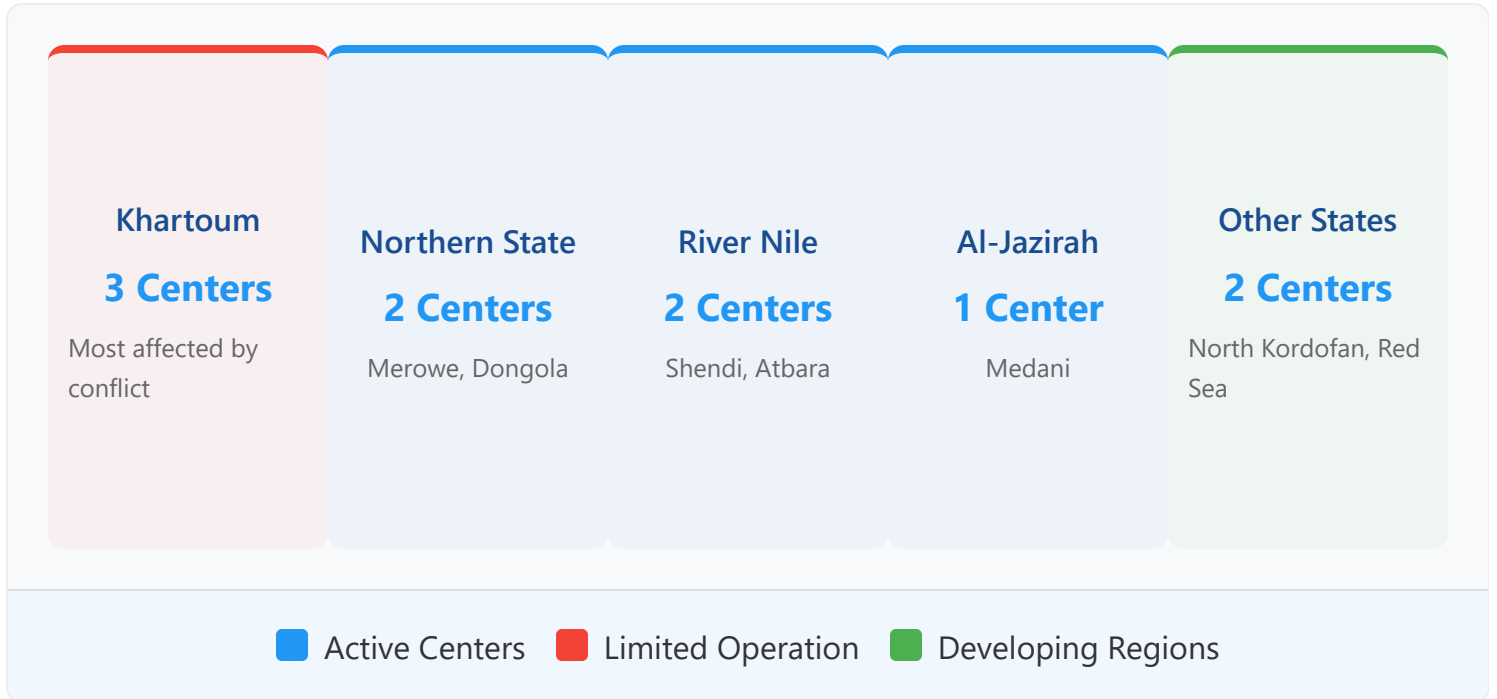
# Cardiac Intervention Centers

As of October 2025, 10 cardiac intervention centers are actively providing services across Sudan, with 3 additional centers expected by 2026.

#	Center Name	Location / State	Status	Own
1	Medani Heart Center	Al-Jazirah State	Active	Publ
2	Al-Dhaman Hospital, Merowe	Northern State	Active	Soci
3	Shendi Heart Center	River Nile	Active	Publ
4	Atbara Medical Complex	River Nile	Active	Publ
5	Omdurman Teaching Hospital	Khartoum	Active	Publ
6	Al-Dhaman Hospital, El Obeid	North Kordofan	Active	Soci
7	Alia Specialized Hospital	Khartoum	Active	Priv
8	Dongola Hospital	Northern State	Active	Publ
9	Ahmed Gasim Cardiac Center	Khartoum	Limited*	Publ
10	Port Sudan Heart Center	Red Sea State	Active	Publ

 **Note:** \*Ahmed Gasim Cardiac Center was rendered non-operational for several months during the conflict but has since resumed limited operations. Alshaab and Sudan Cardiac Center (not listed) were also severely affected.

## Geographic Distribution



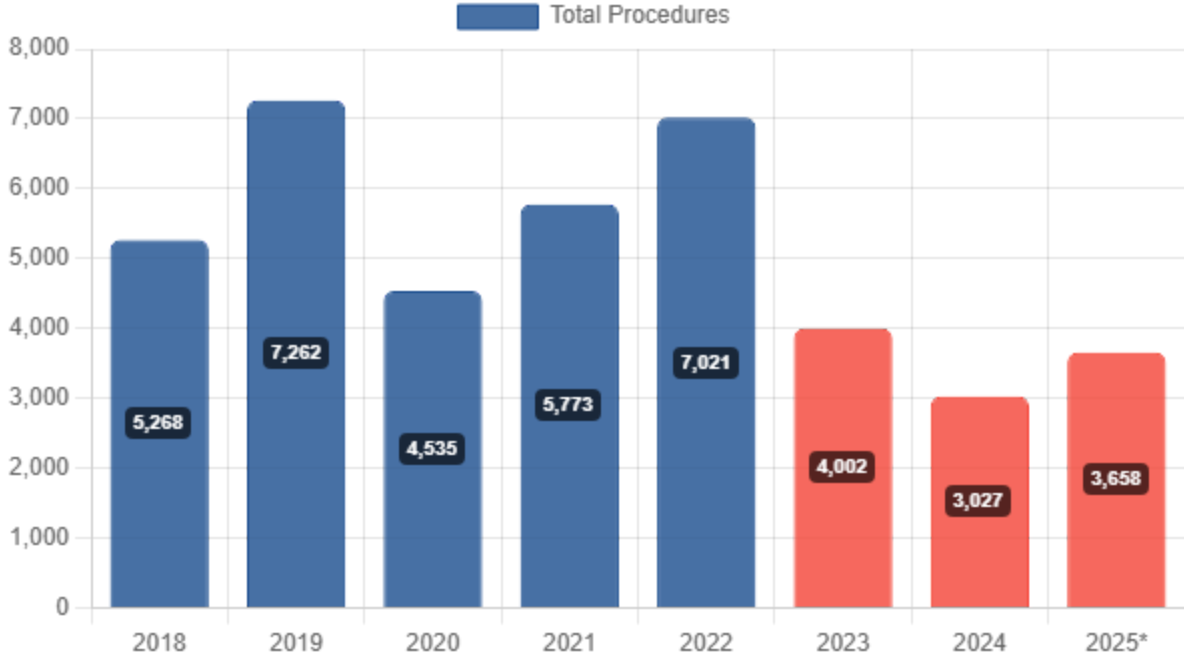


# Coronary Artery Intervention Procedures (2018-September 2025)

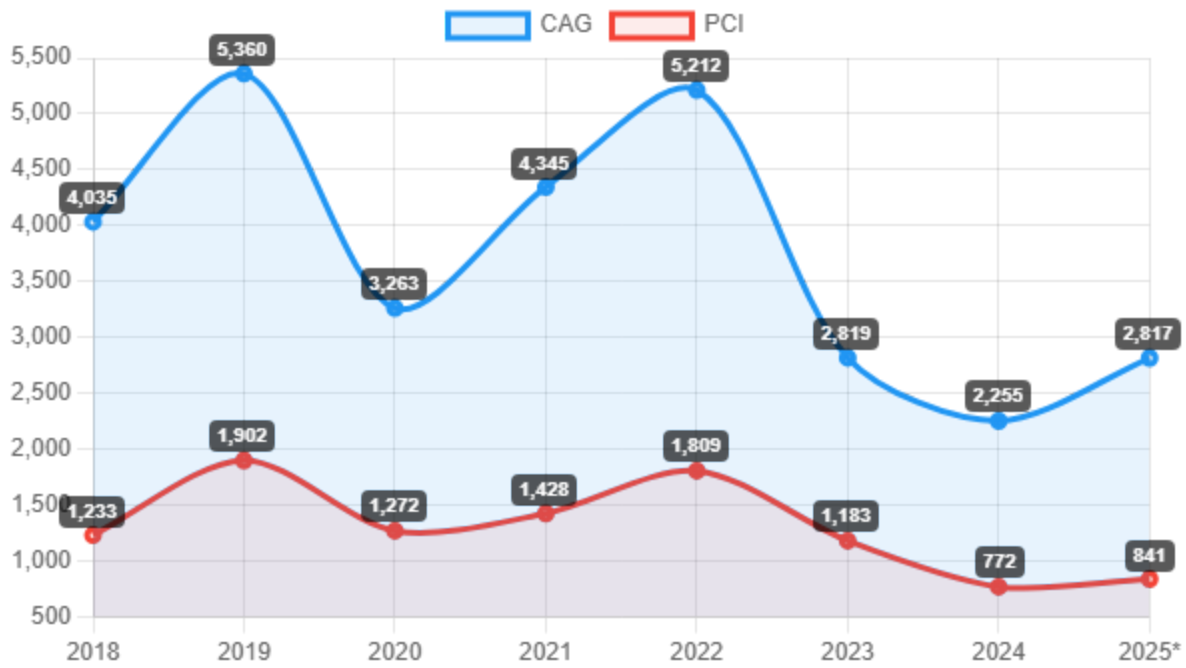
Procedure Type	2018	2019	2020	2021	2022	2023	War	2024	War
Coronary Angiography (CAG)	4,035	5,360	3,263	4,345	5,212	2,819		2,255	
Percutaneous Coronary Intervention (PCI)	1,233	1,902	1,272	1,428	1,809	1,183		772	
<b>Total Procedures</b>	<b>5,268</b>	<b>7,262</b>	<b>4,535</b>	<b>5,773</b>	<b>7,021</b>	<b>4,002</b>		<b>3,027</b>	

# Yearly Procedure Trends

## Total Procedures by Year



## CAG vs PCI Trends

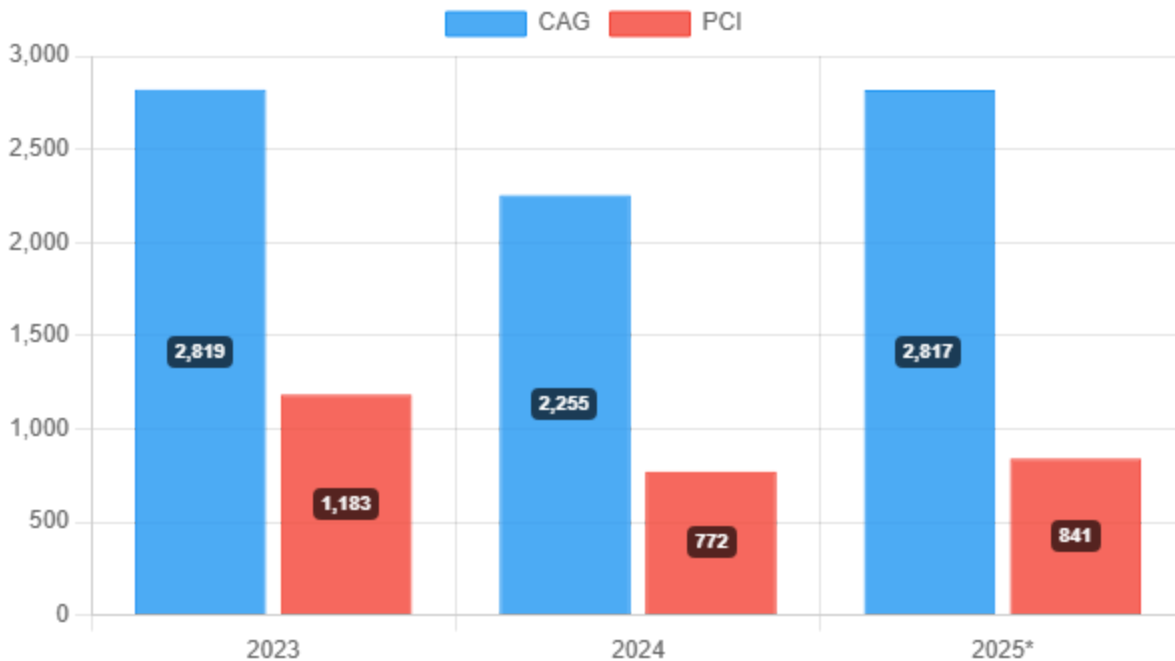




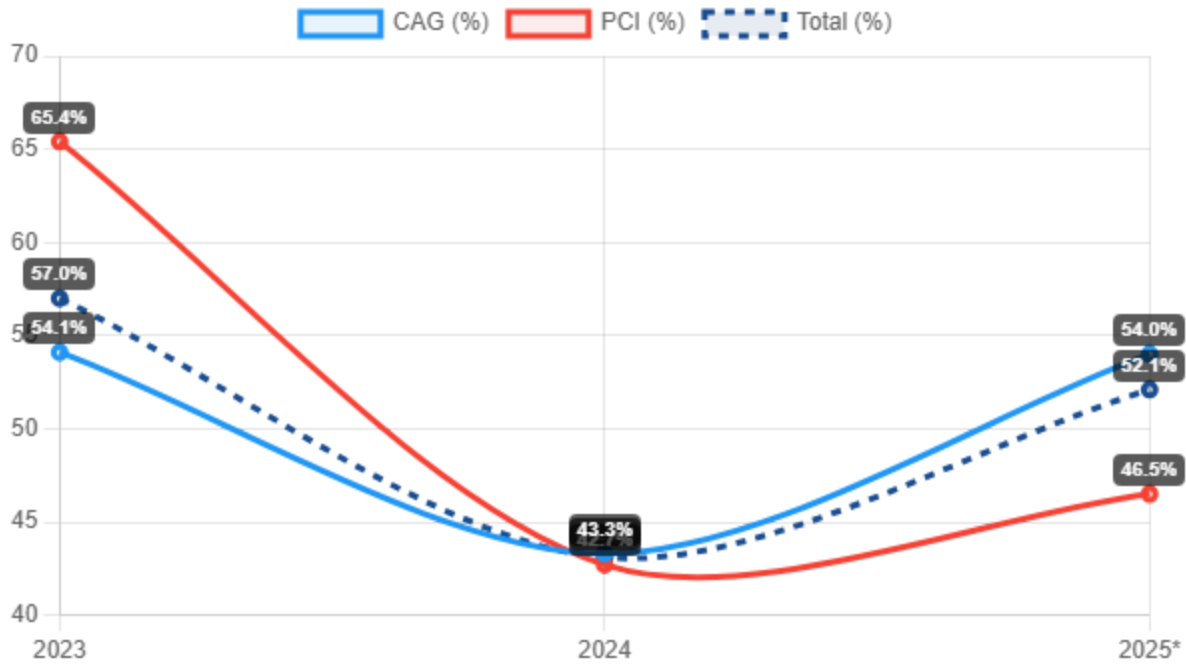
# War Period Impact Analysis (April 2023 - September 2025)

Year	PCI Procedures	CAG Procedures	Total Procedures	% of 2022
<b>2022 (Pre-War Peak)</b>	1,809	5,212	7,021	100%
<b>2023 (War Year 1)</b>	1,183	2,819	4,002	57.0%
<b>2024 (War Year 2)</b>	772	2,255	3,027	43.1%
<b>2025* (War Year 3)</b>	841	2,817	3,658	52.1%
<b>War Period Total</b>	<b>2,796</b>	<b>7,891</b>	<b>10,687</b>	<b>50.8%</b>

## War Period Performance



## 📈 Recovery Trend (2023-2025)



## ↑ Recovery & Resilience

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### Network Resilience

**8-10 Centers**

Regional centers maintained operations during conflict

### Diagnostic Recovery

**+24.9%**

CAG increase from 2024 to 2025 (9 months)

### Interventional Recovery

**+8.9%**

PCI increase from 2024 to 2025 (9 months)

### Network Expansion

**+30%**

Planned center increase (10 to 13)

## Projected Recovery Trajectory



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Sudan National Report on Intervention Cardiac Catheterization Capacity and Activity | Data Period: 2018 -  
September 2025

Reporting Source: Data Compiled from the National Cardiac Center Database

Report generated: November 2025 | Total procedures analyzed: 40,546