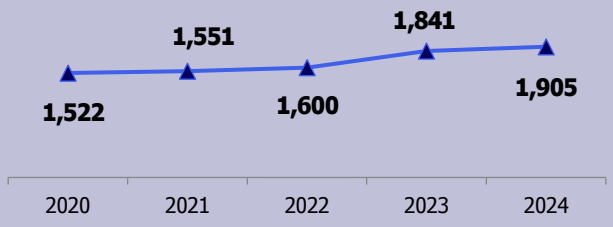
PHC4
Transparent Health Care Reporting

Cardiac Procedures Report
January 1, 2023 through December 31, 2024 Data

Key Findings & Statewide Statistics

Surgical Aortic Valve Replacement (SAVR)

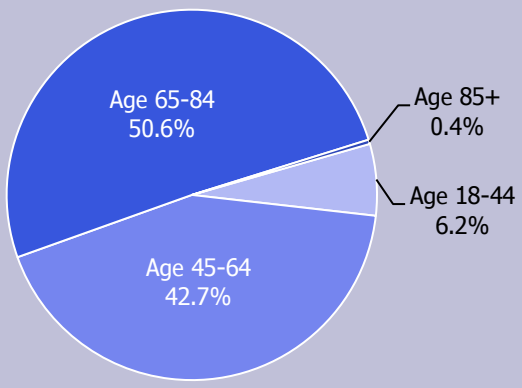
Number of Cases



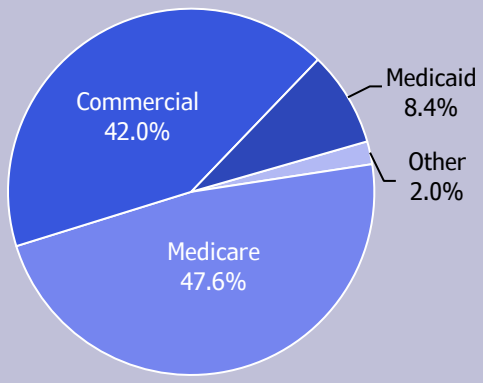
CY 2020 – CY 2022 data are displayed for trending purposes only and are not included in the report analyses.

There were **3,746** hospitalizations, after exclusions, for surgical aortic valve replacement (SAVR) procedures performed in Pennsylvania acute care hospitals during Calendar Years (CY) 2023 and 2024. These inpatient hospitalizations are examined in the **Hospital Results** section of this report in determining statewide rates of mortality, readmission, and postoperative length of stay.

SAVR by Age



SAVR by Payer Type



Percentages may not add to 100% due to rounding.

Mortality

- The in-hospital mortality rate was **1.3%**.
- Hispanic patients had a mortality rate of **1.4%**, White (non-Hispanic) patients had a mortality rate of **1.3%**, and Black (non-Hispanic) patients had a mortality rate of **0.5%**.
- Female patients had a mortality rate of **1.5%** and male patients had a mortality rate of **1.2%**.

Readmission

- **5.5%** of patients were readmitted to an acute care hospital within 7 days, **11.5%** were readmitted within 30 days, and **15.4%** were readmitted within 90 days.
- Black (non-Hispanic) patients had the highest 30-day readmission rate at **21.5%**. Hispanic and White (non-Hispanic) patients had 30-day readmission rates of **16.1%** and **10.8%**, respectively.
- Female patients had a 30-day readmission rate of **11.9%** and male patients had a readmission rate of **11.3%**.

Postoperative Length of Stay

- In CY 2023-2024, patients stayed in the hospital an average of **6.6** days following a SAVR procedure.
- **3.5%** of patients experienced an extended postoperative length of stay; that is, after accounting for patient risk, they stayed in the hospital longer than expected. The average postoperative stay for these patients was **23.2** days.

Medicare Payments

- The average Medicare fee-for-service payment for hospitalizations in CY 2023-2024 was **$54,970**.
- The average Medicare fee-for-service payment for hospitalizations with an extended postoperative length of stay was **$93,062**.

Results based on the Centers for Medicare and Medicaid Services CY 2023-2024 Medicare fee-for-service payment data.

SAVR Hospitalization Rates per 10,000 Pennsylvania Residents (CY 2023-2024)
Statewide Rate: 3.1

Age		Female/Male		Race/Ethnicity	
Age 18-44	0.4	Female	2.0	White (non-Hispanic)	3.6
Age 45-64	4.4	Male	4.4	Black (non-Hispanic)	1.7
Age 65-84	7.0			Hispanic	0.8
Age 85 and older	0.4				

Poverty		Rural/Urban		Region	
High Poverty	2.0	Rural County	3.7	Western PA	3.2
All Other	3.3	Urban County	2.9	Central & Northeastern PA	3.5
				Southeastern PA	2.8

Rate calculations: Hospitalization rates above were based on Pennsylvania residents (3,263 hospital stays or 87.1% of all 3,746 hospitalizations for SAVR) using PHC4 claims data and 2024 US Census Bureau population figures.[1,2]

High Poverty rates included hospitalizations for residents living in areas where 20% or more of the population lives in poverty derived from 2024 US Census Bureau poverty rate figures.[3]

Rural County and *Urban County* rates were based on the designation of the county of residence as defined by The Center for Rural Pennsylvania. Urban counties are italicized in the following list of counties by region.

- Western PA includes the following counties: *Allegheny*, Armstrong, *Beaver*, Bedford, Blair, Butler, Cambria, Cameron, Clarion, Clearfield, Crawford, Elk, *Erie*, Fayette, Forest, Greene, Indiana, Jefferson, Lawrence, McKean, Mercer, Potter, Somerset, Venango, Warren, Washington, and *Westmoreland*.
- Central & Northeastern PA includes the following counties: Adams, Bradford, Centre, Clinton, Columbia, *Cumberland, Dauphin*, Franklin, Fulton, Huntingdon, Juniata, *Lackawanna, Lancaster, Lebanon, Luzerne*, Lycoming, Mifflin, Monroe, Montour, Northumberland, Perry, Pike, Snyder, Sullivan, Susquehanna, Tioga, Union, Wayne, Wyoming, and *York.*
- Southeastern PA includes the following counties: *Berks, Bucks,* Carbon, *Chester, Delaware, Lehigh, Montgomery, Northampton, Philadelphia*, and Schuylkill.

For County Rates, see "Maps – Rates by County"

[1] U.S. Census Bureau. "Vintage 2024 Annual County Resident Population Estimates by Age, Sex, Race, and Hispanic Origin: April 1, 2020 to July 1, 2024" Population Estimates Program (PEP), Table cc-est2024-alldata-42, https://www2.census.gov/programs-surveys/popest/datasets/2020-2024/counties/asrh/cc-est2024-alldata-42.csv. Accessed March 4, 2026.
[2] U.S. Census Bureau. "Age and Sex." American Community Survey 5-Year Estimates Subject Tables, Table S0101, https://data.census.gov/table/ACSST5Y2024.S0101?q=acs+zcta+population+estimate. Accessed March 26, 2026.
[3] U.S. Census Bureau. "Poverty Status in the Past 12 Months." American Community Survey 5-Year Estimates, Table S1701, https://data.census.gov/table/ACSST5Y2024.S1701?q=acs+zcta+poverty+rate. Accessed March 26, 2026.