

Cardiac Surgery Report

January 2014 – March 2016 Data



Pennsylvania Health Care Cost Containment Council

January 2017

Cardiac Surgery in Pennsylvania

This report presents outcomes for the 29,578 adult patients who underwent coronary artery bypass graft (CABG) surgery and/or heart valve surgery between January 1, 2014 and March 31, 2016 in the 60 Pennsylvania general acute care hospitals that performed these types of procedures during that period. The report displays risk-adjusted outcomes that can be used, in part, to evaluate both hospital and surgeon performance. Produced by the Pennsylvania Health Care Cost Containment Council (PHC4), the report includes:

- In-hospital mortality and 30-day readmission ratings for hospitals and surgeons.
- Average charges and average Medicare payments for hospitals.
- Key findings, including statewide trends.

Taken together, this information can be helpful to patients, families and purchasers in making more informed health care decisions and can serve as an aid to providers in highlighting additional opportunities for quality improvement and cost containment.

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About PHC4

Created by the Pennsylvania General Assembly in 1986, PHC4 is an independent state agency charged with collecting, analyzing and reporting information that can be used to improve the quality and restrain the cost of health care in the state. Today, PHC4 is a recognized national leader in public health care reporting. More than 840,000 public reports on patient treatment results are downloaded from the PHC4 website each year and nearly 100 organizations and individuals annually utilize PHC4's special requests process to access and use data. PHC4 is governed by a 25-member board of directors, representing business, labor, consumers, health care providers, insurers and state government.

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About the Report

About coronary artery bypass graft surgery and heart valve surgery

Coronary artery bypass graft (CABG) surgery is used to treat a blockage in a coronary artery by creating an alternate pathway for the blood to flow in order to reach vital heart muscle. CABG is typically recommended for severe or complex blockages that are not treatable by other methods. Heart valve surgery is used to treat narrowing (stenosis) or abnormal backflow of blood (regurgitation) of a heart valve. This can be accomplished by replacing the valve with an artificial (mechanical) or biological (animal or human tissue) valve or by restoring the shape of the heart valve. The CABG and heart valve surgeries included in this report are performed through an open chest incision (open heart surgery). Most patients stay in the hospital for several days and may participate in a cardiac rehabilitation program after hospital discharge.



Patients who may be too high-risk or too sick for open heart aortic valve replacement surgery now have a minimally invasive surgical option, transcatheter aortic valve replacement (TAVR). A TAVR procedure replaces the damaged aortic valve through a catheter that is typically threaded through a large vessel (e.g., femoral artery) or via a small chest incision. In Pennsylvania, the number of TAVR procedures without a CABG or valve procedure has nearly quadrupled between 2012 and 2015, from 478 cases to 1,872. These non-open heart procedures are not included in this report.

Additional Resources

American Heart Association
www.heart.org

National Heart, Lung, and Blood Institute
www.nhlbi.nih.gov

Society of Thoracic Surgeons
www.STS.org

Why is it important to look at CABG and valve surgeries?

CABG and valve surgeries are costly, frequently performed surgeries. Although most CABG/valve patients have an excellent prognosis for survival, results following surgery may vary among hospitals and surgeons. There is evidence that information contained in reports such as this encourages hospitals and surgeons to examine their processes and make changes that can improve quality of care and ultimately save lives.

About the Report

In this report

This report includes hospital-specific and surgeon-specific outcomes for coronary artery bypass graft (CABG) and valve surgeries, as defined by International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) or International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM) and Procedure Coding System (ICD-10-PCS) diagnosis and procedure codes. Technical Notes relevant to this report provide additional detail. They are posted to PHC4's website at www.phc4.org.

- This report covers inpatient hospital discharges from January 1, 2014 through March 31, 2016 where the patient was age 30 or older.
- 60 Pennsylvania general acute care hospitals and 182 surgeons performed cardiac surgery during the time period covered in this report.
- The hospital names have been shortened in many cases for formatting purposes. Hospital names may be different today than during the time period covered in the report due to mergers and name changes.

Also on PHC4's Website for Cardiac Surgery

Statewide Statistics and Key Findings

Hospital Results

Surgeon Results

Hospital Medicare Payment

Technical Notes

Hospital and Surgeon Comments

Hospital and Surgeon Directories

Download the Data

Total CABG and/or Valve Volume

PHC4 has also published a report on pediatric and congenital heart surgery, available on its website.

www.phc4.org

About the Report

About the data

The hospital inpatient discharge data used in this analysis was submitted to PHC4 by the general acute care hospitals in Pennsylvania that perform CABG and/or heart valve surgery. The data submitted to PHC4 by the hospitals was subject to standard validation processes by PHC4. Hospitals and surgeons were asked to verify data accuracy at the individual case level. Hospitals were also given an opportunity to confirm the Medicare payment data. The ultimate responsibility for data accuracy and completeness lies with each individual hospital. PHC4 wishes to acknowledge and thank the Pennsylvania hospitals and surgeons who participated in the data submission and verification processes used for this report.

The Medicare fee-for-service payment data was obtained from the Centers for Medicare and Medicaid Services. The most recent Medicare and Medicaid payment data available to PHC4 for use in this report was for 2014.

Accounting for patient risk

Some patients who undergo CABG and/or heart valve surgery are more seriously ill than others. Included in the data PHC4 receives from Pennsylvania hospitals is information indicating, in simple terms, “how sick the patient was” on admission to the hospital—information that is used to account for high-risk patients. Even though two patients may be admitted to the hospital with the same illness, there may be differences in the seriousness of their conditions. In order to report fair comparisons among hospitals, PHC4 uses a complex mathematical formula to risk adjust the in-hospital mortality and 30-day readmission measures included in this report, meaning that hospitals receive “extra credit” for treating patients who are more seriously ill or at a greater risk than others. Risk adjusting the data is important because sicker patients may be at a greater risk of dying or being readmitted.

PHC4 uses a complex mathematical formula to risk adjust the mortality and readmission measures. Risk adjusting the data is important because sicker patients may be at a greater risk of dying or being readmitted.

PHC4 uses results from laboratory blood tests and other clinical data submitted by hospitals, patient characteristics such as age and gender, and billing codes that describe the patient’s medical conditions such as the presence of heart attack, coronary artery disease, etc., to calculate risk for the patients in this report. A comprehensive description of the risk-adjustment techniques used for this report can be found in the Technical Notes on PHC4’s website at www.phc4.org.

About the Report

What is measured in this report and why is it important?

PHC4's mission is to provide the public with information that will help to improve the quality of health care services while also providing opportunities to restrain costs. The measurement of quality in health care is not an exact science. As such, there may be a number of ways to define quality. Measures for this report were chosen because they are important components in examining quality of care and resource use for patients undergoing CABG and/or heart valve surgery.

Results for the measures included in this report are displayed for the following four procedure groups:

- **CABG without Valve:** Patients who had at least one CABG procedure (without any valve procedures on the same day).
- **Total Valve:** Patients who had at least one valve procedure with or without a CABG procedure (on the same day).
 - **Valve without CABG:** Patients who had at least one valve procedure (without any CABG procedures on the same day).
 - **Valve with CABG:** Patients who had at least one valve procedure and at least one CABG procedure (on the same day).

The following measures are reported:

- **Number of Cases.** This is the number of surgeries analyzed in this report. This information provides an idea of the experience each hospital or surgeon has in performing these procedures. Studies have suggested that, in at least some areas, the volume of cases treated by a physician or hospital can be a factor in the success of the treatment. It is important to note, that some CABG/valve patients were not counted in this analysis (for example, those who underwent other complex procedures during the same hospital admission as the CABG/valve surgery, procedures done in Veterans' hospitals or those performed in other states by surgeons who also practice outside Pennsylvania).
- **In-Hospital Mortality (risk adjusted).** This measure is reported as a statistical rating that represents the number of patients who died during the hospital stay in which the CABG/valve surgery was performed. To determine the mortality rating, PHC4 compares the number of patients one could reasonably expect to die, after accounting for patient risk,

About the Report

with the actual number of deaths. (Please see “Understanding the Symbols” box on this page.) A rating is reported for hospitals and surgeons who performed 30 or more procedures in a particular procedure group.

- **30-Day Hospital Readmission (risk adjusted).** This measure is reported as a statistical rating that represents the number of patients who were readmitted to a Pennsylvania general acute care hospital within 30 days of being discharged from the hospital where the CABG/valve surgery was performed. A readmission was counted only if the patient was readmitted with a principal diagnosis that indicated a heart-related condition, an infection or a complication. Readmissions for other reasons were not included in the analysis. To accommodate a transition in hospital coding requirements (from ICD-9-CM to ICD-10-CM) that became effective October 1, 2015, the readmission analysis was based on discharges from January 1, 2014 through August 31, 2015. September 2015 was used to identify 30-day readmissions for patients discharged in August 2015. To determine the risk-adjusted readmission rating, PHC4 compares the number of patients one could reasonably expect to be readmitted, after accounting for patient risk, with the actual number of readmissions. (Please see “Understanding the Symbols” box on this page.) A rating is reported for hospitals and surgeons who performed 30 or more procedures in a particular procedure group.

Readmission is an outcome that may be influenced by the quality of inpatient and outpatient care, including coordination of care, discharge planning and medication reconciliation. Identifying readmissions provides information that can inform quality improvement efforts that have the potential to improve patient experience and lower health care costs. While some rehospitalizations can be expected, high quality care may lessen the need for subsequent, unplanned hospitalizations.

See Technical Notes on PHC4’s website (www.phc4.org) for additional detail.

Understanding the Symbols

The symbols displayed in this report represent a comparison of actual mortality or readmission rates to what is expected after accounting for patient risk.

- **Rate was significantly lower than expected.** Fewer patients died or were readmitted than could be attributed to patient risk and random variation.
 - ◉ **Rate was not significantly different than expected.** The number of patients who died or were readmitted was within the range anticipated based on patient risk and random variation.
 - **Rate was significantly higher than expected.** More patients died or were readmitted than could be attributed to patient risk and random variation.
-

About the Report

- **Average Hospital Charge (case-mix adjusted).** The amount a hospital bills for a patient's care is known as the charge. The charge includes the facility fee but does not include professional fees (e.g., physician fees) or other additional post-discharge costs such as rehabilitation treatment, long-term care and/or home health care. In almost all cases, hospitals do not receive full charges from private insurance carriers or government payers. Hospitals typically receive actual payments that are considerably less than the listed charge. Hospital charges often vary by individual hospital and by regions of the state. The average charge included in this report was adjusted for the mix of cases specific to each hospital and reflects the entire length of stay. The average charge is reported for each hospital with 11 or more cases in a particular procedure group.
- **Average Medicare Fee-for-Service Payment.** A separate section of the report displays the average amount a hospital is paid for a Medicare patient in the fee-for-service system (Pennsylvania residents), along with the number of cases included in the average payment and average hospital charge (trimmed and case-mix adjusted) for these cases. Payments from Medicare Advantage plans are not included. The average Medicare payment was trimmed for outliers and calculated using the dollar amount the Centers for Medicare and Medicaid Services provided for the Medicare Part A hospital insurance fund payment. Patient liabilities (e.g., coinsurance and deductible dollar amounts) were not included. Hospitals were given an opportunity to verify the average Medicare payments reported for their facilities prior to the public release of the information. The most recent Medicare payment data available to PHC4 was for calendar year 2014.

Medicare payments are based on formulas that take into account regional variation in the cost of delivering care, the increased costs from teaching doctors still in training, higher costs for hospitals that service large numbers of low-income patients and for costs of new technologies. Medicare payments are based on the entire hospital stay, as are the average hospital charges for the Medicare fee-for-service patients. The average Medicare payment and average hospital charge for these cases are reported for each hospital with 11 or more cases in a particular procedure group.

About the Report

Uses of this report

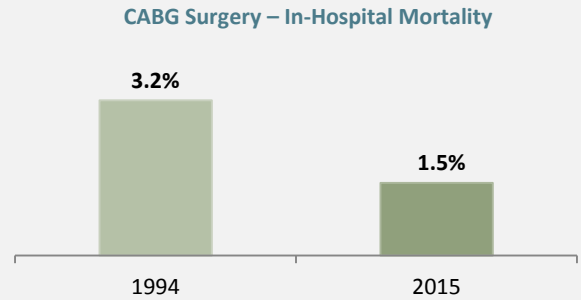
This report can be used as a tool to examine hospital performance. It is not intended to be a sole source of information for making health care decisions, nor should it be used to generalize about the overall quality of care provided by a hospital. Readers of this report should use it in discussions with their physicians who can answer specific questions and concerns about their care.

- ***Patients/Consumers*** can use this report as an aid in making decisions about where to seek treatment. This report should be used in conjunction with a physician or other health care provider when making health care decisions.
- ***Group Benefits Purchasers/Insurers*** can use this report as part of a process in determining treatment options for employees, subscribers, members or participants.
- ***Health Care Providers*** can use this report as an aid in identifying opportunities for quality improvement and cost containment.
- ***Policymakers/Public Officials*** can use this report to enhance their understanding of health care issues, to ask provocative questions, to raise public awareness of important issues and to help constituents identify health care options.
- ***Everyone*** can use this information to raise important questions about why differences exist in the quality and efficiency of care.

Statewide Statistics and Key Findings

Mortality Rate ↓ 53.4% for CABG Surgery

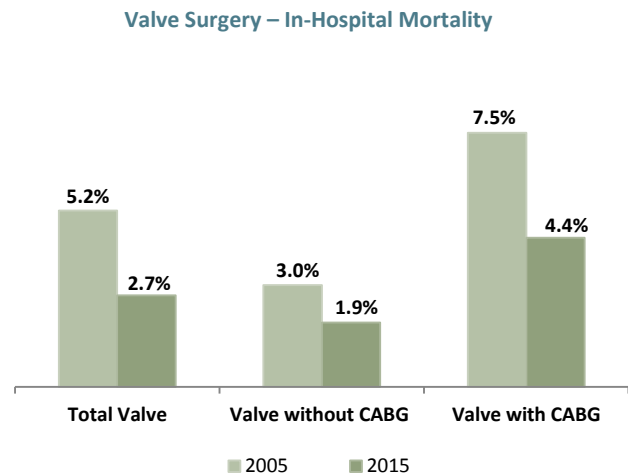
Statewide, the in-hospital mortality rate for coronary artery bypass graft (CABG) surgery (without a valve procedure) declined 53.4% between 1994 and 2015, from 3.2% to 1.5%



Mortality Rate ↓ 46.7% for Valve Surgery

Statewide, in-hospital mortality dropped for valve surgery patients between 2005, when PHC4 began reporting on valve procedures, and 2015:

- 46.7% decrease for the total valve procedure group, from 5.2% to 2.7%.
- 35.5% decrease in valve without CABG, from 3.0% to 1.9%.
- 40.5% decrease in valve with CABG, from 7.5% to 4.4%.



Medicare Fee-For-Service Payment Trends

Average Medicare Fee-For-Service Payment

Procedure Group	2005	2008	2011	2014
CABG without Valve	\$29,175	\$30,546	\$32,564	\$32,499
Total Valve	\$43,343	\$47,500	\$48,461	\$44,246
Valve without CABG	\$42,433	\$47,346	\$47,540	\$43,206
Valve with CABG	\$44,119	\$47,669	\$49,924	\$45,873

Note: 2014 Medicare payment data is the most recent available

Statewide Statistics and Key Findings

Readmission Rate ↓ 17.2% for CABG Surgery

Statewide, the 30-day readmission rate for coronary artery bypass graft (CABG) surgery (without a valve procedure) declined 17.2% between 2002/2003 and 2014/2015, from 12.8% to 10.6%.

CABG Surgery – Readmissions

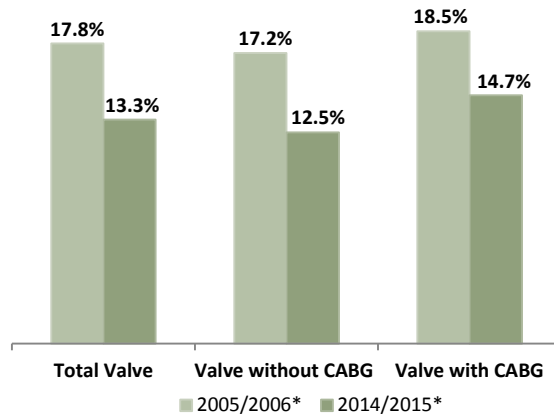


Readmission Rate ↓ 25.4% for Valve Surgery

Statewide, 30-day readmission rates dropped for valve surgery patients between 2005/2006 and 2014/2015:

- 25.4% decrease for the total valve procedure group, from 17.8% to 13.3%.
- 26.9% decrease in valve without CABG, from 17.2% to 12.5%.
- 20.4% decrease in valve with CABG, from 18.5% to 14.7%.

Valve Surgery – Readmissions



* Based on fiscal years July 1 to June 30.
PHC4 first reported valve procedures in 2005.

Readmissions – Readmissions add to the overall cost of care through additional days spent in the hospital. Overall, 2,270 patients (11.7%) who underwent CABG and/or valve surgery between January 1, 2014 and August 31, 2015 were readmitted to the hospital within 30-days of discharge, adding 12,857 hospital days.

Procedure Group	Patients Readmitted within 30 Days		For patients readmitted within 30 days, the readmissions were associated with...		
	Number	Percent	Mortality Percent	Average Length of Stay (days)	Total Days
Total	2,270	11.7%	2.8%	5.7	12,857
CABG without Valve	1,126	10.2%	2.5%	5.6	6,277
Total Valve	1,144	13.7%	3.1%	5.8	6,580
Valve without CABG	733	13.3%	2.6%	5.2	3,838
Valve with CABG	411	14.5%	4.1%	6.7	2,742

Statewide Statistics and Key Findings

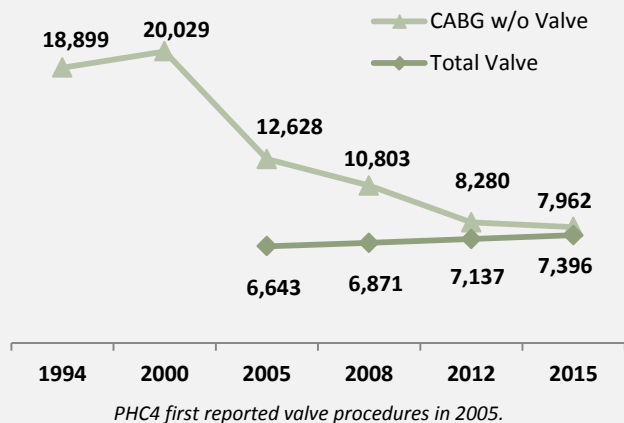
Number of CABG Procedures ↓ 57.9%

Statewide, the number of coronary artery bypass graft (CABG) procedures performed in Pennsylvania hospitals decreased 57.9% between 1994 and 2015, from 18,899 to 7,962.

Number of Total Valve Procedures ↑ 11.3%

The number of total valve procedures increased 11.3% between 2005 and 2015, from 6,643 to 7,396.

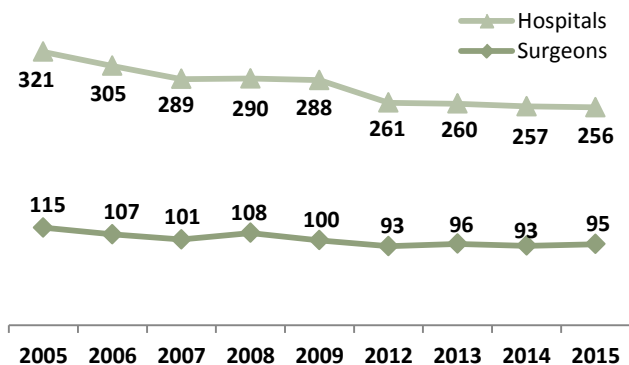
Number of CABG (1994-2015) and Total Valve (2005-2015) Procedures



Average Number of Procedures

The average number of CABG and/or valve procedures performed annually by hospitals and surgeons decreased between 2005 and 2015— from 321 to 256 for hospitals and from 115 to 95 for surgeons.

Average Number of CABG and/or Valve Procedures Performed Annually



Healthcare-Associated Surgical Site Infection Rates (2015 Data)

Reported by Pennsylvania Department of Health

15.5 per 1,000 procedures – Cardiac bypass graft surgery with one incision

18.3 per 1,000 procedures – Cardiac bypass graft surgery with two incisions

The Pennsylvania Department of Health (DOH) publicly reports hospital-specific healthcare-associated infection rates including surgical site infection rates for cardiac bypass graft surgery. The most recent report, *Healthcare-Associated Infections in Pennsylvania, 2015 Report*, can be found on DOH's website at www.health.state.pa.us.

Hospital Results

Table Notes

Total Number of Cases includes all cases after exclusions (patients less than 30 years of age, patients who left against medical advice and clinically complex cases were excluded). The total number of cases includes inpatient hospital discharges from January 1, 2014 through March 31, 2016.

In-Hospital Mortality represents the number of patients who died during the hospitalization in which the procedure was performed. This analysis includes inpatient hospital discharges from January 1, 2014 through March 31, 2016.

30-Day Readmission represents the number of patients who were readmitted to any general acute care hospital in Pennsylvania for a heart-related condition, an infection or a complication. This analysis is based on inpatient hospital discharges from January 1, 2014 through August 31, 2015.

Actual Percent is the percent (rate) of patients who died (In-Hospital Mortality) or who were readmitted (30-Day Readmission).

Expected Range is the range (upper and lower limits) of the percent of patients one could reasonably expect to die (In-Hospital Mortality) or be readmitted (30-Day Readmission) after accounting for patient risk.

Rating identifies whether the actual percent (rate) is significantly higher than, significantly lower than or not significantly different than expected. See Understanding the Statistical Rating Symbols below.

Average Hospital Charge is for the entire length of stay and is trimmed and case-mix adjusted. In almost all cases, hospitals typically receive actual payments from private insurers or government payers that are considerably less than the listed charge. This analysis includes inpatient hospital discharges from January 1, 2014 through March 31, 2016.

See **About the Report** section or the **Technical Notes** for further details.

Understanding the Statistical Rating Symbols

The rating symbols displayed in this report represent a comparison of a hospital's actual percent of mortality or readmission to its expected range, which takes into account varying illness levels among patients. See example below.

	In-Hospital Mortality			
	Actual Percent	Expected Range	Rating	
Sample Hospital A CABG without Valve	1.3%	0.4% - 3.5%	⊙	Hospital's actual percent is within the hospital's expected range. The hospital's rating is not significantly different than expected.
Sample Hospital B CABG without Valve	0.0%	0.5% - 3.8%	○	Hospital's actual percent is less than the hospital's expected range. The hospital's rating is significantly lower (better) than expected.
Sample Hospital C CABG without Valve	4.0%	0.0% - 2.9%	●	Hospital's actual percent is more than the hospital's expected range. The hospital's rating is significantly higher (worse) than expected.

Hospital Results

	In-Hospital Mortality		30-Day Readmission	Average Hospital Charge
	Total Number of Cases	Actual Percent	Actual Percent	
Statewide Statistics				
CABG without Valve	16,641	1.5%	10.2%	\$168,627
Total Valve	12,937	2.7%	13.7%	\$221,013
Valve without CABG	8,618	1.8%	13.3%	\$207,548
Valve with CABG	4,319	4.4%	14.5%	\$248,178

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Abington Memorial								
CABG without Valve	230	1.3%	0.4% - 3.5%	⊙	10.8%	6.4% - 15.3%	⊙	\$181,730
Total Valve	225	3.6%	0.4% - 4.0%	⊙	11.9%	8.2% - 18.2%	⊙	\$205,510
Valve without CABG	144	3.5%	0.0% - 3.5%	⊙	12.6%	6.8% - 18.4%	⊙	\$198,926
Valve with CABG	81	3.7%	0.0% - 7.4%	⊙	10.7%	5.4% - 23.2%	⊙	\$228,149
Albert Einstein								
CABG without Valve	263	2.3%	0.4% - 3.4%	⊙	19.1%	8.1% - 17.3%	●	\$227,872
Total Valve	120	2.5%	0.8% - 5.8%	⊙	18.2%	9.1% - 23.4%	⊙	\$272,795
Valve without CABG	94	1.1%	0.0% - 5.3%	⊙	17.7%	6.5% - 22.6%	⊙	\$264,643
Valve with CABG	26	NR	NR	NR	NR	NR	NR	\$296,611
Allegheny General								
CABG without Valve	448	1.3%	0.2% - 2.0%	⊙	13.0%	6.1% - 12.6%	●	\$107,556
Total Valve	560	3.2%	1.8% - 4.1%	⊙	15.1%	9.8% - 16.9%	⊙	\$128,994
Valve without CABG	397	3.3%	0.8% - 3.3%	⊙	15.6%	8.7% - 17.0%	⊙	\$119,464
Valve with CABG	163	3.1%	2.5% - 8.0%	⊙	14.0%	8.4% - 20.6%	⊙	\$144,124

- ⊙ Rate was significantly lower than expected.
 - ⊕ Rate was not significantly different than expected.
 - Rate was significantly higher than expected.
- NR: Not reported. Too few cases after exclusions.

Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Aria Health								
CABG without Valve	265	1.5%	0.4% - 2.6%	⊙	14.9%	6.1% - 14.4%	●	\$93,640
Total Valve	58	6.9%	0.0% - 8.6%	⊙	34.3%	5.7% - 25.7%	●	\$143,629
Valve without CABG	38	5.3%	0.0% - 5.3%	⊙	NR	NR	NR	\$128,738
Valve with CABG	20	NR	NR	NR	NR	NR	NR	\$183,426
Brandywine								
CABG without Valve	109	0.9%	0.0% - 3.7%	⊙	14.1%	3.8% - 16.7%	⊙	\$367,746
Total Valve	45	0.0%	0.0% - 4.4%	⊙	14.0%	4.7% - 23.3%	⊙	\$419,444
Valve without CABG	32	0.0%	0.0% - 3.1%	⊙	9.4%	3.1% - 25.0%	⊙	\$408,057
Valve with CABG	13	NR	NR	NR	NR	NR	NR	NR
Butler Memorial								
CABG without Valve	421	0.7%	0.2% - 2.1%	⊙	7.1%	6.4% - 12.8%	⊙	\$99,667
Total Valve	259	3.1%	0.8% - 3.9%	⊙	12.0%	8.2% - 16.9%	⊙	\$115,485
Valve without CABG	145	2.8%	0.0% - 2.8%	⊙	11.3%	6.6% - 17.9%	⊙	\$104,690
Valve with CABG	114	3.5%	0.9% - 6.1%	⊙	13.0%	6.5% - 19.5%	⊙	\$132,387
Chester County 📄								
CABG without Valve	182	1.6%	0.0% - 2.7%	⊙	9.2%	4.2% - 14.3%	⊙	\$120,156
Total Valve	93	2.2%	0.0% - 5.4%	⊙	21.8%	7.3% - 23.6%	⊙	\$151,311
Valve without CABG	59	1.7%	0.0% - 3.4%	⊙	25.0%	3.1% - 21.9%	●	\$146,712
Valve with CABG	34	2.9%	0.0% - 11.8%	⊙	NR	NR	NR	\$166,638
Conemaugh Memorial								
CABG without Valve	288	2.4%	0.3% - 2.8%	⊙	8.4%	6.2% - 13.3%	⊙	\$75,858
Total Valve	157	5.7%	0.6% - 4.5%	●	14.5%	7.3% - 18.5%	⊙	\$99,367
Valve without CABG	81	6.2%	0.0% - 3.7%	●	14.1%	4.7% - 18.8%	⊙	\$93,464
Valve with CABG	76	5.3%	0.0% - 6.6%	⊙	15.0%	5.0% - 21.7%	⊙	\$107,723

📄 This health system submitted comments available at www.phc4.org.

- ⊙ Rate was significantly lower than expected.
- ⊕ Rate was not significantly different than expected.
- Rate was significantly higher than expected.

NR: Not reported. Too few cases after exclusions.

Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Crozer Chester								
CABG without Valve	166	0.6%	0.0% - 3.0%	⊙	11.3%	4.8% - 14.5%	⊙	\$321,149
Total Valve	93	5.4%	1.1% - 7.5%	⊙	15.1%	5.7% - 22.6%	⊙	\$363,168
Valve without CABG	56	3.6%	0.0% - 3.6%	⊙	20.6%	2.9% - 23.5%	⊙	\$344,621
Valve with CABG	37	8.1%	2.7% - 16.2%	⊙	NR	NR	NR	\$414,823
Doylestown								
CABG without Valve	190	0.0%	0.0% - 2.1%	⊙	5.9%	3.7% - 11.8%	⊙	\$119,373
Total Valve	211	0.0%	0.5% - 3.8%	⊙	17.4%	7.2% - 16.2%	●	\$140,593
Valve without CABG	134	0.0%	0.0% - 3.7%	⊙	18.3%	5.5% - 16.5%	●	\$131,183
Valve with CABG	77	0.0%	0.0% - 5.2%	⊙	15.5%	5.2% - 19.0%	⊙	\$164,051
Easton								
CABG without Valve	128	2.3%	0.0% - 3.9%	⊙	16.7%	4.2% - 18.1%	⊙	\$447,677
Total Valve	65	1.5%	0.0% - 4.6%	⊙	13.2%	5.3% - 26.3%	⊙	\$506,241
Valve without CABG	37	2.7%	0.0% - 5.4%	⊙	NR	NR	NR	\$482,775
Valve with CABG	28	NR	NR	NR	NR	NR	NR	\$581,113
Einstein Montgomery								
CABG without Valve	190	2.1%	0.0% - 3.2%	⊙	8.3%	5.6% - 15.7%	⊙	\$191,320
Total Valve	195	2.6%	0.5% - 3.6%	⊙	16.2%	8.1% - 19.8%	⊙	\$232,919
Valve without CABG	173	1.7%	0.0% - 3.5%	⊙	15.5%	8.2% - 20.6%	⊙	\$219,975
Valve with CABG	22	NR	NR	NR	NR	NR	NR	\$255,463
Excelsior Health Westmoreland								
CABG without Valve	267	1.1%	0.0% - 2.2%	⊙	8.0%	5.3% - 13.4%	⊙	\$67,786
Total Valve	109	2.8%	0.0% - 3.7%	⊙	14.8%	6.2% - 19.8%	⊙	\$77,265
Valve without CABG	62	0.0%	0.0% - 3.2%	⊙	17.4%	4.3% - 21.7%	⊙	\$70,414
Valve with CABG	47	6.4%	0.0% - 6.4%	⊙	11.4%	2.9% - 22.9%	⊙	\$88,225


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Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Forbes								
CABG without Valve	228	2.2%	0.4% - 3.1%	⊙	13.4%	5.5% - 14.0%	⊙	\$94,687
Total Valve	226	1.8%	0.9% - 4.4%	⊙	18.9%	9.4% - 19.5%	⊙	\$111,505
Valve without CABG	149	0.0%	0.0% - 3.4%	⊙	17.3%	7.3% - 19.1%	⊙	\$102,436
Valve with CABG	77	5.2%	0.0% - 7.8%	⊙	22.4%	8.2% - 26.5%	⊙	\$126,468
Geisinger Community								
CABG without Valve	212	1.9%	0.0% - 2.8%	⊙	5.1%	5.8% - 14.7%	⊙	\$164,117
Total Valve	107	3.7%	0.9% - 5.6%	⊙	9.0%	6.4% - 20.5%	⊙	\$232,114
Valve without CABG	47	4.3%	0.0% - 4.3%	⊙	5.7%	2.9% - 20.0%	⊙	\$214,452
Valve with CABG	60	3.3%	1.7% - 8.3%	⊙	11.6%	7.0% - 25.6%	⊙	\$260,175
Geisinger Danville								
CABG without Valve	364	1.4%	0.3% - 2.5%	⊙	6.3%	6.3% - 12.9%	⊙	\$210,715
Total Valve	424	3.1%	1.4% - 4.0%	⊙	10.9%	9.0% - 15.7%	⊙	\$252,733
Valve without CABG	278	1.4%	0.4% - 2.9%	⊙	10.4%	8.0% - 16.0%	⊙	\$228,847
Valve with CABG	146	6.2%	2.1% - 7.5%	⊙	12.0%	7.0% - 19.0%	⊙	\$298,215
Geisinger Wyoming Valley								
CABG without Valve	216	2.3%	0.9% - 4.6%	⊙	10.1%	6.0% - 14.8%	⊙	\$235,242
Total Valve	173	4.0%	2.3% - 6.9%	⊙	10.0%	7.7% - 19.2%	⊙	\$273,887
Valve without CABG	102	2.0%	1.0% - 4.9%	⊙	7.6%	7.6% - 21.5%	⊙	\$251,041
Valve with CABG	71	7.0%	2.8% - 11.3%	⊙	13.7%	3.9% - 19.6%	⊙	\$306,404
Good Samaritan Lebanon								
CABG without Valve	189	0.5%	0.0% - 2.6%	⊙	2.6%	4.5% - 12.9%	⊙	\$96,629
Total Valve	79	1.3%	0.0% - 3.8%	⊙	16.1%	4.8% - 19.4%	⊙	\$116,347
Valve without CABG	40	2.5%	0.0% - 2.5%	⊙	NR	NR	NR	\$104,759
Valve with CABG	39	0.0%	0.0% - 5.1%	⊙	12.1%	3.0% - 21.2%	⊙	\$135,175

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Hospital Results


Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Hahnemann University								
CABG without Valve	76	0.0%	0.0% - 5.3%	⊙	20.5%	2.3% - 18.2%	●	\$437,298
Total Valve	40	2.5%	0.0% - 7.5%	⊙	NR	NR	NR	\$500,831
Valve without CABG	29	NR	NR	NR	NR	NR	NR	\$462,051
Valve with CABG	11	NR	NR	NR	NR	NR	NR	NR
Heritage Valley Beaver								
CABG without Valve	286	2.4%	0.3% - 2.4%	⊙	8.9%	5.3% - 12.6%	⊙	\$59,100
Total Valve	166	3.6%	0.6% - 4.2%	⊙	9.5%	6.7% - 18.1%	⊙	\$68,958
Valve without CABG	103	1.0%	0.0% - 2.9%	⊙	8.1%	4.8% - 19.4%	⊙	\$65,013
Valve with CABG	63	7.9%	0.0% - 6.3%	●	11.6%	4.7% - 20.9%	⊙	\$75,446
Holy Spirit								
CABG without Valve	227	2.2%	0.0% - 2.6%	⊙	8.2%	5.7% - 13.9%	⊙	\$123,545
Total Valve	80	7.5%	0.0% - 5.0%	●	12.8%	2.6% - 20.5%	⊙	\$149,829
Valve without CABG	45	8.9%	0.0% - 4.4%	●	NR	NR	NR	\$136,300
Valve with CABG	35	5.7%	0.0% - 8.6%	⊙	NR	NR	NR	\$173,423
Hospital University PA 								
CABG without Valve	345	4.3%	1.2% - 4.1%	●	15.3%	6.1% - 14.7%	●	\$306,724
Total Valve	981	2.7%	2.0% - 4.0%	⊙	12.2%	10.3% - 16.1%	⊙	\$337,415
Valve without CABG	773	1.6%	1.3% - 3.2%	⊙	12.1%	9.7% - 16.1%	⊙	\$310,760
Valve with CABG	208	6.7%	2.9% - 8.2%	⊙	12.5%	7.7% - 20.2%	⊙	\$428,634
Jeanes								
CABG without Valve	116	0.9%	0.0% - 3.4%	⊙	12.5%	6.3% - 18.8%	⊙	\$316,079
Total Valve	88	0.0%	0.0% - 5.7%	⊙	15.4%	7.7% - 23.1%	⊙	\$321,668
Valve without CABG	68	0.0%	0.0% - 4.4%	⊙	16.7%	6.3% - 25.0%	⊙	\$300,214
Valve with CABG	20	NR	NR	NR	NR	NR	NR	\$391,590

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Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Jefferson								
CABG without Valve	443	1.1%	0.7% - 2.7%	⊙	8.6%	7.7% - 14.2%	⊙	\$78,349
Total Valve	268	2.2%	1.9% - 6.0%	⊙	13.9%	11.9% - 21.9%	⊙	\$97,135
Valve without CABG	126	1.6%	0.0% - 4.0%	⊙	11.7%	8.5% - 22.3%	⊙	\$87,675
Valve with CABG	142	2.8%	2.8% - 9.2%	⊙	15.9%	11.2% - 24.3%	⊙	\$111,147
Lancaster General 								
CABG without Valve	614	2.4%	0.5% - 2.1%	●	11.1%	7.5% - 13.0%	⊙	\$105,337
Total Valve	468	3.4%	1.1% - 3.6%	⊙	13.8%	10.4% - 17.1%	⊙	\$117,488
Valve without CABG	258	2.7%	0.4% - 2.7%	⊙	11.9%	8.8% - 17.6%	⊙	\$109,561
Valve with CABG	210	4.3%	1.4% - 5.7%	⊙	16.0%	9.8% - 19.6%	⊙	\$132,610
Lancaster Regional								
CABG without Valve	83	2.4%	0.0% - 2.4%	⊙	8.3%	3.3% - 15.0%	⊙	\$214,961
Total Valve	29	NR	NR	NR	NR	NR	NR	\$257,295
Valve without CABG	14	NR	NR	NR	NR	NR	NR	NR
Valve with CABG	15	NR	NR	NR	NR	NR	NR	NR
Lehigh Valley Allentown								
CABG without Valve	681	1.2%	0.7% - 2.3%	⊙	13.6%	7.7% - 13.0%	●	\$184,478
Total Valve	518	1.4%	1.2% - 3.3%	⊙	13.9%	10.0% - 16.6%	⊙	\$235,270
Valve without CABG	382	0.8%	0.5% - 2.6%	⊙	14.9%	9.0% - 16.3%	⊙	\$216,106
Valve with CABG	136	2.9%	1.5% - 6.6%	⊙	10.9%	8.7% - 21.7%	⊙	\$276,337
Lehigh Valley Muhlenberg								
CABG without Valve	112	0.0%	0.0% - 2.7%	⊙	5.3%	3.9% - 14.5%	⊙	\$198,931
Total Valve	82	1.2%	0.0% - 3.7%	⊙	8.8%	5.3% - 19.3%	⊙	\$232,826
Valve without CABG	53	0.0%	0.0% - 3.8%	⊙	14.7%	2.9% - 20.6%	⊙	\$220,725
Valve with CABG	29	NR	NR	NR	NR	NR	NR	\$263,973

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Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Main Line Bryn Mawr								
CABG without Valve	35	0.0%	0.0% - 2.9%	⊙	8.8%	0.0% - 17.6%	⊙	\$199,537
Total Valve	19	NR	NR	NR	NR	NR	NR	\$257,871
Valve without CABG	13	NR	NR	NR	NR	NR	NR	\$262,953
Valve with CABG	6	NR	NR	NR	NR	NR	NR	NR
Main Line Lankenau								
CABG without Valve	676	0.6%	0.6% - 2.2%	⊙	10.4%	7.7% - 13.1%	⊙	\$176,431
Total Valve	483	1.7%	1.0% - 3.5%	⊙	12.6%	9.7% - 17.2%	⊙	\$244,748
Valve without CABG	379	1.3%	0.5% - 2.9%	⊙	11.5%	8.9% - 17.0%	⊙	\$225,490
Valve with CABG	104	2.9%	1.0% - 7.7%	⊙	16.2%	8.1% - 21.6%	⊙	\$298,539
Main Line Paoli								
CABG without Valve	87	0.0%	0.0% - 3.4%	⊙	8.6%	1.7% - 15.5%	⊙	\$199,744
Total Valve	39	2.6%	0.0% - 5.1%	⊙	NR	NR	NR	\$227,747
Valve without CABG	30	0.0%	0.0% - 3.3%	⊙	NR	NR	NR	\$207,735
Valve with CABG	9	NR	NR	NR	NR	NR	NR	NR
Mercy Fitzgerald								
CABG without Valve	59	1.7%	0.0% - 3.4%	⊙	18.9%	2.7% - 21.6%	⊙	\$274,074
Total Valve	44	2.3%	0.0% - 6.8%	⊙	12.9%	6.5% - 29.0%	⊙	\$340,944
Valve without CABG	34	2.9%	0.0% - 5.9%	⊙	NR	NR	NR	\$314,654
Valve with CABG	10	NR	NR	NR	NR	NR	NR	NR
Milton S Hershey								
CABG without Valve	390	1.3%	0.5% - 2.6%	⊙	13.8%	6.2% - 12.7%	●	\$126,482
Total Valve	350	1.4%	1.1% - 4.0%	⊙	15.8%	9.3% - 17.0%	⊙	\$145,273
Valve without CABG	252	1.6%	0.8% - 3.6%	⊙	15.7%	9.0% - 18.0%	⊙	\$134,249
Valve with CABG	98	1.0%	1.0% - 7.1%	⊙	15.9%	5.8% - 18.8%	⊙	\$166,174

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Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Penn Highlands DuBois								
CABG without Valve	163	1.2%	0.0% - 3.1%	⊙	11.0%	6.3% - 16.5%	⊙	\$91,928
Total Valve	68	1.5%	0.0% - 4.4%	⊙	14.6%	4.2% - 20.8%	⊙	\$114,320
Valve without CABG	42	0.0%	0.0% - 4.8%	⊙	8.8%	2.9% - 23.5%	⊙	\$100,370
Valve with CABG	26	NR	NR	NR	NR	NR	NR	\$132,009
Penn Presbyterian								
CABG without Valve	411	1.5%	0.5% - 2.7%	⊙	9.9%	3.7% - 16.0%	⊙	\$230,861
Total Valve	575	2.4%	1.2% - 3.3%	⊙	16.2%	7.8% - 16.9%	⊙	\$252,987
Valve without CABG	449	2.0%	0.7% - 2.9%	⊙	17.4%	6.6% - 17.4%	⊙	\$238,859
Valve with CABG	126	4.0%	0.8% - 6.3%	⊙	12.1%	3.0% - 21.2%	⊙	\$298,638
Pennsylvania								
CABG without Valve	147	1.4%	0.0% - 2.7%	⊙	13.4%	4.9% - 15.9%	⊙	\$204,183
Total Valve	115	3.5%	0.0% - 5.2%	⊙	13.8%	6.9% - 22.4%	⊙	\$233,907
Valve without CABG	81	1.2%	0.0% - 3.7%	⊙	13.6%	4.5% - 22.7%	⊙	\$219,454
Valve with CABG	34	8.8%	0.0% - 8.8%	⊙	NR	NR	NR	\$280,536
Phoenixville								
CABG without Valve	112	0.0%	0.0% - 3.6%	⊙	11.0%	4.1% - 16.4%	⊙	\$409,413
Total Valve	44	2.3%	0.0% - 4.5%	⊙	6.1%	3.0% - 21.2%	⊙	\$420,724
Valve without CABG	21	NR	NR	NR	NR	NR	NR	\$381,981
Valve with CABG	23	NR	NR	NR	NR	NR	NR	\$497,824
Pinnacle Health								
CABG without Valve	560	0.5%	0.4% - 1.8%	⊙	6.7%	6.2% - 11.4%	⊙	\$78,288
Total Valve	628	1.1%	1.3% - 3.3%	⊙	7.0%	9.6% - 15.3%	⊙	\$102,261
Valve without CABG	437	0.5%	0.5% - 2.5%	⊙	6.0%	8.8% - 15.7%	⊙	\$97,347
Valve with CABG	191	2.6%	2.1% - 6.8%	⊙	9.4%	7.9% - 18.7%	⊙	\$110,320

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Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Pocono								
CABG without Valve	265	0.4%	0.0% - 1.9%	⊙	6.3%	5.2% - 13.2%	⊙	\$92,671
Total Valve	105	3.8%	0.0% - 4.8%	⊙	17.9%	6.0% - 19.4%	⊙	\$116,807
Valve without CABG	56	0.0%	0.0% - 3.6%	⊙	14.6%	2.4% - 22.0%	⊙	\$107,895
Valve with CABG	49	8.2%	0.0% - 8.2%	⊙	NR	NR	NR	\$130,142
Reading								
CABG without Valve	354	0.6%	0.3% - 2.3%	⊙	9.6%	6.8% - 13.6%	⊙	\$121,274
Total Valve	137	2.9%	0.0% - 3.6%	⊙	10.4%	7.5% - 18.9%	⊙	\$139,056
Valve without CABG	92	3.3%	0.0% - 2.2%	●	12.3%	5.5% - 19.2%	⊙	\$136,677
Valve with CABG	45	2.2%	0.0% - 6.7%	⊙	6.1%	6.1% - 27.3%	⊙	\$146,344
Regional Scranton								
CABG without Valve	173	4.0%	0.0% - 2.9%	●	10.3%	5.1% - 14.5%	⊙	\$168,473
Total Valve	238	1.3%	0.8% - 3.8%	⊙	14.8%	9.1% - 18.8%	⊙	\$213,115
Valve without CABG	161	0.6%	0.0% - 3.1%	⊙	15.4%	8.5% - 19.7%	⊙	\$196,539
Valve with CABG	77	2.6%	0.0% - 7.8%	⊙	13.6%	6.8% - 22.0%	⊙	\$233,745
Robert Packer								
CABG without Valve	201	0.5%	0.0% - 2.5%	⊙	8.1%	5.4% - 17.6%	⊙	\$102,041
Total Valve	194	2.6%	0.5% - 3.6%	⊙	12.3%	7.7% - 23.1%	⊙	\$125,688
Valve without CABG	125	2.4%	0.0% - 3.2%	⊙	7.5%	5.0% - 22.5%	⊙	\$113,507
Valve with CABG	69	2.9%	0.0% - 7.2%	⊙	NR	NR	NR	\$143,002
Saint Vincent								
CABG without Valve	361	1.1%	0.3% - 2.5%	⊙	7.2%	6.3% - 13.6%	⊙	\$163,187
Total Valve	181	2.2%	0.6% - 3.9%	⊙	9.7%	7.3% - 18.5%	⊙	\$200,290
Valve without CABG	86	0.0%	0.0% - 2.3%	⊙	10.3%	5.2% - 19.0%	⊙	\$182,055
Valve with CABG	95	4.2%	0.0% - 5.3%	⊙	9.1%	6.1% - 21.2%	⊙	\$226,833

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Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Sharon Regional								
CABG without Valve	46	0.0%	0.0% - 2.2%	⊙	19.4%	0.0% - 16.1%	●	\$131,378
Total Valve	15	NR	NR	NR	NR	NR	NR	\$136,258
Valve without CABG	11	NR	NR	NR	NR	NR	NR	\$125,229
Valve with CABG	4	NR	NR	NR	NR	NR	NR	NR
St Clair Memorial								
CABG without Valve	195	0.0%	0.0% - 2.6%	⊙	5.6%	4.9% - 14.1%	⊙	\$85,604
Total Valve	105	1.9%	0.0% - 3.8%	⊙	15.1%	6.8% - 20.5%	⊙	\$106,866
Valve without CABG	76	0.0%	0.0% - 3.9%	⊙	17.3%	5.8% - 21.2%	⊙	\$102,964
Valve with CABG	29	NR	NR	NR	NR	NR	NR	\$108,180
St Joseph Reading								
CABG without Valve	133	2.3%	0.0% - 3.8%	⊙	12.0%	6.0% - 18.0%	⊙	\$127,050
Total Valve	126	4.0%	0.8% - 6.3%	⊙	16.0%	8.5% - 22.3%	⊙	\$135,139
Valve without CABG	91	3.3%	0.0% - 4.4%	⊙	13.2%	7.4% - 22.1%	⊙	\$123,959
Valve with CABG	35	5.7%	0.0% - 14.3%	⊙	NR	NR	NR	\$159,307
St Luke's Bethlehem								
CABG without Valve	372	0.3%	0.3% - 2.4%	⊙	6.9%	6.5% - 13.4%	⊙	\$255,683
Total Valve	279	1.4%	0.7% - 3.6%	⊙	9.8%	9.3% - 18.0%	⊙	\$300,483
Valve without CABG	168	1.2%	0.0% - 2.4%	⊙	6.9%	6.9% - 18.1%	⊙	\$281,347
Valve with CABG	111	1.8%	0.9% - 6.3%	⊙	14.1%	7.7% - 21.8%	⊙	\$348,414
St Mary MC								
CABG without Valve	306	2.0%	0.0% - 2.3%	⊙	6.4%	6.4% - 14.4%	⊙	\$149,236
Total Valve	181	1.7%	0.6% - 4.4%	⊙	14.0%	7.0% - 19.0%	⊙	\$200,122
Valve without CABG	125	0.8%	0.0% - 3.2%	⊙	11.3%	5.6% - 19.7%	⊙	\$183,753
Valve with CABG	56	3.6%	0.0% - 8.9%	⊙	NR	NR	NR	\$240,557

- ⊙ Rate was significantly lower than expected.
 - ⊕ Rate was not significantly different than expected.
 - Rate was significantly higher than expected.
- NR: Not reported. Too few cases after exclusions.

Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Temple University								
CABG without Valve	304	2.3%	2.3% - 5.9%	⊙	10.4%	11.0% - 20.8%	○	\$368,663
Total Valve	266	4.9%	1.9% - 5.6%	⊙	17.3%	12.3% - 23.5%	⊙	\$414,067
Valve without CABG	203	4.9%	1.0% - 4.9%	⊙	18.9%	11.8% - 23.6%	⊙	\$395,246
Valve with CABG	63	4.8%	1.6% - 11.1%	⊙	11.4%	8.6% - 28.6%	⊙	\$477,952
Thomas Jefferson Univ								
CABG without Valve	224	1.3%	0.9% - 4.0%	⊙	12.6%	6.3% - 17.1%	⊙	\$221,254
Total Valve	177	4.0%	0.6% - 5.1%	⊙	16.9%	7.2% - 20.5%	⊙	\$241,870
Valve without CABG	117	2.6%	0.0% - 4.3%	⊙	15.3%	5.1% - 22.0%	⊙	\$232,909
Valve with CABG	60	6.7%	0.0% - 8.3%	⊙	NR	NR	NR	\$278,803
UPMC Altoona								
CABG without Valve	221	1.8%	0.0% - 2.7%	⊙	15.2%	6.1% - 14.6%	●	\$112,744
Total Valve	163	1.8%	0.6% - 4.9%	⊙	21.4%	8.5% - 20.5%	●	\$142,171
Valve without CABG	125	1.6%	0.0% - 3.2%	⊙	18.0%	7.9% - 20.2%	⊙	\$134,313
Valve with CABG	38	2.6%	0.0% - 13.2%	⊙	NR	NR	NR	\$163,561
UPMC Hamot								
CABG without Valve	457	0.7%	0.2% - 2.0%	⊙	10.9%	6.6% - 13.7%	⊙	\$217,142
Total Valve	219	2.7%	0.5% - 4.1%	⊙	15.0%	7.5% - 18.3%	⊙	\$259,577
Valve without CABG	133	0.8%	0.0% - 3.0%	⊙	14.9%	4.5% - 17.9%	⊙	\$220,412
Valve with CABG	86	5.8%	0.0% - 7.0%	⊙	15.1%	5.7% - 22.6%	⊙	\$311,897
UPMC Mercy								
CABG without Valve	186	2.2%	0.0% - 3.2%	⊙	10.3%	5.2% - 15.5%	⊙	\$168,335
Total Valve	125	4.8%	0.8% - 6.4%	⊙	13.4%	9.8% - 23.2%	⊙	\$203,242
Valve without CABG	63	3.2%	0.0% - 6.3%	⊙	20.0%	7.5% - 27.5%	⊙	\$187,698
Valve with CABG	62	6.5%	0.0% - 8.1%	⊙	7.1%	7.1% - 26.2%	⊙	\$228,703

- Rate was significantly lower than expected.
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 - Rate was significantly higher than expected.
- NR: Not reported. Too few cases after exclusions.

Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
UPMC Passavant								
CABG without Valve	325	1.2%	0.6% - 2.8%	⊙	11.1%	6.0% - 12.8%	⊙	\$150,496
Total Valve	212	0.0%	0.9% - 4.7%	⊙	13.7%	8.2% - 18.5%	⊙	\$169,838
Valve without CABG	125	0.0%	0.0% - 3.2%	⊙	12.2%	5.6% - 17.8%	⊙	\$156,556
Valve with CABG	87	0.0%	1.1% - 8.0%	⊙	16.1%	7.1% - 23.2%	⊙	\$191,464
UPMC Presby Shadyside								
CABG without Valve	974	2.5%	1.0% - 2.5%	⊙	10.2%	8.7% - 13.3%	⊙	\$312,397
Total Valve	1,249	3.8%	2.5% - 4.3%	⊙	14.0%	12.7% - 17.3%	⊙	\$401,863
Valve without CABG	786	2.3%	1.3% - 3.2%	⊙	13.3%	11.9% - 17.4%	⊙	\$364,244
Valve with CABG	463	6.5%	3.5% - 7.1%	⊙	15.3%	12.0% - 19.8%	⊙	\$463,910
Washington								
CABG without Valve	167	0.0%	0.0% - 2.4%	⊙	11.2%	4.7% - 15.0%	⊙	\$75,058
Total Valve	71	1.4%	0.0% - 4.2%	⊙	11.3%	3.8% - 18.9%	⊙	\$106,240
Valve without CABG	42	2.4%	0.0% - 4.8%	⊙	12.9%	3.2% - 22.6%	⊙	\$99,739
Valve with CABG	29	NR	NR	NR	NR	NR	NR	\$117,202
West Penn								
CABG without Valve	198	2.5%	0.0% - 3.0%	⊙	13.3%	5.2% - 14.8%	⊙	\$154,102
Total Valve	52	3.8%	0.0% - 5.8%	⊙	18.8%	3.1% - 25.0%	⊙	\$170,828
Valve without CABG	25	NR	NR	NR	NR	NR	NR	\$153,469
Valve with CABG	27	NR	NR	NR	NR	NR	NR	\$196,780
Wilkes-Barre General								
CABG without Valve	299	1.3%	0.0% - 1.7%	⊙	9.9%	5.6% - 12.9%	⊙	\$185,909
Total Valve	62	4.8%	0.0% - 6.5%	⊙	25.5%	4.3% - 21.3%	●	\$262,674
Valve without CABG	20	NR	NR	NR	NR	NR	NR	\$251,909
Valve with CABG	42	7.1%	0.0% - 7.1%	⊙	29.0%	3.2% - 22.6%	●	\$292,607

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 - Rate was significantly higher than expected.
- NR: Not reported. Too few cases after exclusions.

Hospital Results

Hospital	In-Hospital Mortality				30-Day Readmission			Average Hospital Charge
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating	
Williamsport Regional								
CABG without Valve	328	0.9%	0.3% - 2.1%	⊙	10.6%	6.6% - 14.1%	⊙	\$125,898
Total Valve	180	3.3%	0.0% - 3.3%	⊙	15.4%	7.7% - 18.8%	⊙	\$179,872
Valve without CABG	111	1.8%	0.0% - 2.7%	⊙	14.8%	6.2% - 18.5%	⊙	\$160,234
Valve with CABG	69	5.8%	0.0% - 5.8%	⊙	16.7%	5.6% - 25.0%	⊙	\$216,799
York								
CABG without Valve	573	4.0%	0.9% - 2.8%	●	10.6%	8.2% - 14.0%	⊙	\$99,545
Total Valve	316	2.2%	0.6% - 3.2%	⊙	15.2%	8.8% - 17.1%	⊙	\$115,716
Valve without CABG	220	1.8%	0.0% - 2.3%	⊙	14.6%	7.9% - 17.2%	⊙	\$107,336
Valve with CABG	96	3.1%	0.0% - 6.3%	⊙	16.7%	6.1% - 21.2%	⊙	\$131,350

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 - Rate was significantly higher than expected.
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Surgeon Results

Table Notes

Total Number of Cases includes all cases after exclusions (patients less than 30 years of age, patients who left against medical advice and clinically complex cases were excluded). The total number of cases includes inpatient hospital discharges from January 1, 2014 through March 31, 2016.

In-Hospital Mortality represents the number of patients who died during the hospitalization in which the procedure was performed. This analysis includes inpatient hospital discharges from January 1, 2014 through March 31, 2016.

30-Day Readmission represents the number of patients who were readmitted to any general acute care hospital in Pennsylvania for a heart-related condition, an infection or a complication. This analysis is based on inpatient hospital discharges from January 1, 2014 through August 31, 2015.

Actual Percent is the percent (rate) of patients who died (In-Hospital Mortality) or who were readmitted (30-Day Readmission).

Expected Range is the range (upper and lower limits) of the percent of patients one could reasonably expect to die (In-Hospital Mortality) or be readmitted (30-Day Readmission) after accounting for patient risk.

Rating identifies whether the actual percent (rate) is significantly higher than, significantly lower than or not significantly different than expected. See Understanding the Statistical Rating Symbols below.

See **About the Report** section or the **Technical Notes** for further details.

Understanding the Statistical Rating Symbols

The rating symbols displayed in this report represent a comparison of a surgeon's actual percent of mortality or readmission to the surgeon's expected range, which takes into account varying illness levels among patients. See example below.

	In-Hospital Mortality			
	Actual Percent	Expected Range	Rating	
Sample Surgeon A CABG without Valve	1.3%	0.4% - 3.5%	○	Surgeon's actual percent is within the surgeon's expected range. The surgeon's rating is not significantly different than expected.
Sample Surgeon B CABG without Valve	0.0%	0.5% - 3.8%	○	Surgeon's actual percent is less than the surgeon's expected range. The surgeon's rating is significantly lower (better) than expected.
Sample Surgeon C CABG without Valve	4.0%	0.0% - 2.9%	●	Surgeon's actual percent is more than the surgeon's expected range. The surgeon's rating is significantly higher (worse) than expected.

Surgeon Results

	In-Hospital Mortality		30-Day Readmission
	Total Number of Cases	Actual Percent	Actual Percent
Statewide Statistics			
CABG without Valve	16,641	1.5%	10.2%
Total Valve	12,937	2.7%	13.7%
Valve without CABG	8,618	1.8%	13.3%
Valve with CABG	4,319	4.4%	14.5%

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Abrishamchian, A. Reza							
CABG without Valve	159	0.0%	0.0% - 2.5%	⊙	10.8%	4.9% - 14.7%	⊙
Total Valve	68	1.5%	0.0% - 4.4%	⊙	11.8%	3.9% - 19.6%	⊙
Valve without CABG	41	2.4%	0.0% - 4.9%	⊙	13.3%	3.3% - 20.0%	⊙
Valve with CABG	27	NR	NR	NR	NR	NR	NR
Acker, Michael A.							
CABG without Valve	117	6.0%	0.9% - 5.1%	●	13.8%	3.4% - 15.5%	⊙
Total Valve	358	4.2%	2.0% - 5.0%	⊙	16.3%	8.9% - 17.9%	⊙
Valve without CABG	279	2.9%	1.1% - 4.3%	⊙	15.6%	8.2% - 18.4%	⊙
Valve with CABG	79	8.9%	1.3% - 10.1%	⊙	18.6%	4.7% - 23.3%	⊙
Aharon, Alon S.							
CABG without Valve	14	NR	NR	NR	NR	NR	NR
Total Valve	10	NR	NR	NR	NR	NR	NR
Valve without CABG	5	NR	NR	NR	NR	NR	NR
Valve with CABG	5	NR	NR	NR	NR	NR	NR

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 - ⊙ Rate was not significantly different than expected.
 - Rate was significantly higher than expected.
- NR: Not reported. Too few cases after exclusions.

Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Amortegui, Jose D.							
CABG without Valve	147	0.7%	0.0% - 2.7%	⊙	4.0%	5.1% - 15.2%	⊙
Total Valve	70	4.3%	0.0% - 5.7%	⊙	10.9%	6.5% - 26.1%	⊙
Valve without CABG	35	2.9%	0.0% - 2.9%	⊙	NR	NR	NR
Valve with CABG	35	5.7%	0.0% - 11.4%	⊙	NR	NR	NR
Anastasi, John S.							
CABG without Valve	207	1.4%	0.0% - 2.4%	⊙	15.4%	5.8% - 14.7%	●
Total Valve	162	1.9%	0.6% - 4.9%	⊙	21.6%	8.6% - 19.8%	●
Valve without CABG	124	1.6%	0.0% - 3.2%	⊙	18.2%	8.0% - 20.5%	⊙
Valve with CABG	38	2.6%	0.0% - 13.2%	⊙	NR	NR	NR
Anderson, Mark							
CABG without Valve	185	2.2%	0.0% - 2.7%	⊙	17.0%	5.0% - 16.0%	●
Total Valve	261	2.3%	0.8% - 3.8%	⊙	17.2%	9.3% - 19.2%	⊙
Valve without CABG	230	1.7%	0.4% - 3.5%	⊙	17.2%	9.0% - 19.4%	⊙
Valve with CABG	31	6.5%	0.0% - 9.7%	⊙	NR	NR	NR
Angelico, Richard J.							
CABG without Valve	101	1.0%	0.0% - 4.0%	⊙	13.6%	3.4% - 16.9%	⊙
Total Valve	57	0.0%	0.0% - 5.3%	⊙	12.1%	6.1% - 27.3%	⊙
Valve without CABG	32	0.0%	0.0% - 6.3%	⊙	NR	NR	NR
Valve with CABG	25	NR	NR	NR	NR	NR	NR
Atluri, Pavan							
CABG without Valve	141	1.4%	0.0% - 3.5%	⊙	12.5%	4.2% - 18.8%	⊙
Total Valve	149	2.0%	1.3% - 6.0%	⊙	12.8%	6.4% - 20.5%	⊙
Valve without CABG	108	0.0%	0.0% - 5.6%	⊙	13.3%	6.7% - 21.7%	⊙
Valve with CABG	41	7.3%	0.0% - 9.8%	⊙	NR	NR	NR

- ⊙ Rate was significantly lower than expected.
- ⊙ Rate was not significantly different than expected.
- Rate was significantly higher than expected.

NR: Not reported. Too few cases after exclusions.

Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Auteri, Joseph S.							
CABG without Valve	104	0.0%	0.0% - 1.9%	⊙	6.8%	2.7% - 12.3%	⊙
Total Valve	159	0.0%	0.0% - 3.8%	⊙	18.5%	5.6% - 16.1%	●
Valve without CABG	113	0.0%	0.0% - 3.5%	⊙	19.6%	5.4% - 16.3%	●
Valve with CABG	46	0.0%	0.0% - 6.5%	⊙	15.6%	3.1% - 21.9%	⊙
Badami, Chirag							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Badhwar, Vinay							
CABG without Valve	23	NR	NR	NR	NR	NR	NR
Total Valve	316	2.5%	0.9% - 4.1%	⊙	11.2%	10.8% - 19.7%	⊙
Valve without CABG	278	1.8%	1.1% - 4.0%	⊙	12.1%	10.6% - 19.7%	⊙
Valve with CABG	38	7.9%	0.0% - 7.9%	⊙	NR	NR	NR
Bailey, Stephen H.							
CABG without Valve	86	0.0%	0.0% - 2.3%	⊙	14.6%	2.1% - 14.6%	⊙
Total Valve	233	2.1%	0.4% - 3.9%	⊙	12.9%	7.2% - 18.0%	⊙
Valve without CABG	179	2.8%	0.0% - 3.4%	⊙	14.1%	6.1% - 18.2%	⊙
Valve with CABG	54	0.0%	0.0% - 7.4%	⊙	10.0%	5.0% - 22.5%	⊙
Bajwa, Gurjyot							
CABG without Valve	40	0.0%	0.0% - 2.5%	⊙	6.5%	3.2% - 19.4%	⊙
Total Valve	65	1.5%	0.0% - 4.6%	⊙	19.0%	4.8% - 21.4%	⊙
Valve without CABG	49	2.0%	0.0% - 4.1%	⊙	20.6%	2.9% - 23.5%	⊙
Valve with CABG	16	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Bavaria, Joseph E.							
CABG without Valve	6	NR	NR	NR	NR	NR	NR
Total Valve	241	1.2%	0.4% - 3.3%	⊙	7.2%	6.3% - 16.2%	⊙
Valve without CABG	199	0.5%	0.0% - 2.5%	⊙	7.8%	5.6% - 16.7%	⊙
Valve with CABG	42	4.8%	0.0% - 9.5%	⊙	NR	NR	NR
Benoit, Charles H.							
CABG without Valve	85	0.0%	0.0% - 3.5%	⊙	3.6%	3.6% - 15.7%	⊙
Total Valve	98	5.1%	0.0% - 5.1%	⊙	14.3%	6.6% - 18.7%	⊙
Valve without CABG	68	4.4%	0.0% - 2.9%	●	12.7%	4.8% - 19.0%	⊙
Valve with CABG	30	6.7%	0.0% - 10.0%	⊙	NR	NR	NR
Bermudez, Christian							
CABG without Valve	23	NR	NR	NR	NR	NR	NR
Total Valve	13	NR	NR	NR	NR	NR	NR
Valve without CABG	5	NR	NR	NR	NR	NR	NR
Valve with CABG	8	NR	NR	NR	NR	NR	NR
Bhama, Jay K.							
CABG without Valve	2	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Boonswang, Narongsak Ab							
CABG without Valve	18	NR	NR	NR	NR	NR	NR
Total Valve	7	NR	NR	NR	NR	NR	NR
Valve without CABG	5	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR

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- Rate was significantly higher than expected.

NR: Not reported. Too few cases after exclusions.

Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Boova, Robert S.							
CABG without Valve	114	1.8%	0.0% - 3.5%	⊙	12.7%	6.3% - 19.0%	⊙
Total Valve	88	0.0%	0.0% - 5.7%	⊙	15.2%	7.6% - 24.2%	⊙
Valve without CABG	68	0.0%	0.0% - 4.4%	⊙	16.3%	6.1% - 24.5%	⊙
Valve with CABG	20	NR	NR	NR	NR	NR	NR
Brown, Paul							
CABG without Valve	79	2.5%	0.0% - 2.5%	⊙	8.9%	1.8% - 16.1%	⊙
Total Valve	29	NR	NR	NR	NR	NR	NR
Valve without CABG	14	NR	NR	NR	NR	NR	NR
Valve with CABG	15	NR	NR	NR	NR	NR	NR
Burlingame, Mark W.							
CABG without Valve	162	3.1%	0.0% - 2.5%	●	8.3%	5.0% - 14.9%	⊙
Total Valve	177	4.0%	0.6% - 4.5%	⊙	15.5%	8.5% - 19.4%	⊙
Valve without CABG	87	2.3%	0.0% - 3.4%	⊙	11.3%	4.8% - 19.4%	⊙
Valve with CABG	90	5.6%	0.0% - 6.7%	⊙	19.4%	7.5% - 22.4%	⊙
Bush, Bryan S.							
CABG without Valve	29	NR	NR	NR	NR	NR	NR
Total Valve	9	NR	NR	NR	NR	NR	NR
Valve without CABG	5	NR	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR	NR
Butler, Michael D.							
CABG without Valve	148	0.0%	0.0% - 2.7%	⊙	9.0%	3.8% - 15.4%	⊙
Total Valve	68	2.9%	0.0% - 5.9%	⊙	16.1%	3.2% - 22.6%	⊙
Valve without CABG	36	2.8%	0.0% - 2.8%	⊙	NR	NR	NR
Valve with CABG	32	3.1%	0.0% - 9.4%	⊙	NR	NR	NR

- Rate was significantly lower than expected.
- ⊙ Rate was not significantly different than expected.
- Rate was significantly higher than expected.

NR: Not reported. Too few cases after exclusions.

Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Cahill, Anne T.							
CABG without Valve	12	NR	NR	NR	NR	NR	NR
Total Valve	2	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR
Campbell, David B.							
CABG without Valve	42	0.0%	0.0% - 4.8%	⊙	11.4%	0.0% - 17.1%	⊙
Total Valve	52	1.9%	0.0% - 5.8%	⊙	15.8%	2.6% - 23.7%	⊙
Valve without CABG	32	3.1%	0.0% - 3.1%	⊙	NR	NR	NR
Valve with CABG	20	NR	NR	NR	NR	NR	NR
Campbell, James P.							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Carter, Russell A.							
CABG without Valve	123	0.8%	0.0% - 3.3%	⊙	4.3%	4.3% - 15.2%	⊙
Total Valve	242	1.2%	1.2% - 4.5%	⊙	8.0%	8.0% - 16.6%	⊙
Valve without CABG	160	0.0%	0.0% - 3.8%	⊙	8.0%	7.2% - 17.6%	⊙
Valve with CABG	82	3.7%	1.2% - 8.5%	⊙	8.1%	4.8% - 21.0%	⊙
Casale, Alfred S.							
CABG without Valve	38	0.0%	0.0% - 5.3%	⊙	10.0%	3.3% - 20.0%	⊙
Total Valve	12	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Casey, Kevin							
CABG without Valve	3	NR	NR	NR	NR	NR	NR
Total Valve	3	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR	NR
Chu, Danny							
CABG without Valve	7	NR	NR	NR	NR	NR	NR
Total Valve	2	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR
Clark, Joseph B.							
CABG without Valve	0	NR	NR	NR	NR	NR	NR
Total Valve	3	NR	NR	NR	NR	NR	NR
Valve without CABG	3	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Cook, Chris C.							
CABG without Valve	284	1.4%	0.4% - 2.8%	⊙	12.1%	5.8% - 13.1%	⊙
Total Valve	206	0.0%	1.0% - 4.9%	⊙	13.3%	8.4% - 18.2%	⊙
Valve without CABG	123	0.0%	0.0% - 3.3%	⊙	12.4%	5.6% - 18.0%	⊙
Valve with CABG	83	0.0%	1.2% - 8.4%	⊙	14.8%	7.4% - 24.1%	⊙
Cope, Jeffrey T.							
CABG without Valve	231	2.6%	0.0% - 2.6%	⊙	11.5%	5.7% - 14.6%	⊙
Total Valve	146	2.7%	0.0% - 4.1%	⊙	11.1%	7.7% - 18.8%	⊙
Valve without CABG	89	2.2%	0.0% - 3.4%	⊙	11.3%	5.6% - 21.1%	⊙
Valve with CABG	57	3.5%	0.0% - 7.0%	⊙	10.9%	4.3% - 21.7%	⊙

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Costic, Joseph T.							
CABG without Valve	3	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Culig, Michael H.							
CABG without Valve	125	3.2%	0.0% - 3.2%	⊙	12.0%	4.3% - 14.1%	⊙
Total Valve	93	2.2%	0.0% - 5.4%	⊙	18.2%	7.6% - 22.7%	⊙
Valve without CABG	57	0.0%	0.0% - 3.5%	⊙	19.0%	4.8% - 23.8%	⊙
Valve with CABG	36	5.6%	0.0% - 11.1%	⊙	NR	NR	NR
Dasika, Uday K.							
CABG without Valve	96	0.0%	0.0% - 3.1%	⊙	7.6%	4.5% - 18.2%	⊙
Total Valve	29	NR	NR	NR	NR	NR	NR
Valve without CABG	15	NR	NR	NR	NR	NR	NR
Valve with CABG	14	NR	NR	NR	NR	NR	NR
Davliakos, George P.							
CABG without Valve	141	1.4%	0.0% - 2.8%	⊙	7.1%	5.1% - 15.3%	⊙
Total Valve	97	5.2%	0.0% - 5.2%	⊙	6.8%	5.5% - 19.2%	⊙
Valve without CABG	50	2.0%	0.0% - 4.0%	⊙	7.7%	2.6% - 20.5%	⊙
Valve with CABG	47	8.5%	0.0% - 8.5%	⊙	5.9%	2.9% - 23.5%	⊙
Derby, Christopher D.							
CABG without Valve	8	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Desai, Nimesh Dilip							
CABG without Valve	64	3.1%	0.0% - 6.3%	⊙	15.8%	2.6% - 18.4%	⊙
Total Valve	124	1.6%	0.8% - 5.6%	⊙	8.3%	6.7% - 21.7%	⊙
Valve without CABG	88	0.0%	0.0% - 4.5%	⊙	7.0%	4.7% - 20.9%	⊙
Valve with CABG	36	5.6%	0.0% - 8.3%	⊙	NR	NR	NR
Diehl, James T.							
CABG without Valve	62	0.0%	0.0% - 4.8%	⊙	10.8%	2.7% - 18.9%	⊙
Total Valve	47	4.3%	0.0% - 6.4%	⊙	NR	NR	NR
Valve without CABG	32	3.1%	0.0% - 6.3%	⊙	NR	NR	NR
Valve with CABG	15	NR	NR	NR	NR	NR	NR
DiMarco Jr., Ross F.							
CABG without Valve	68	1.5%	0.0% - 2.9%	⊙	14.0%	3.5% - 15.8%	⊙
Total Valve	25	NR	NR	NR	NR	NR	NR
Valve without CABG	8	NR	NR	NR	NR	NR	NR
Valve with CABG	17	NR	NR	NR	NR	NR	NR
DiMuzio, Paul J.							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
EI-Khatib, Hazem N.							
CABG without Valve	110	0.0%	0.0% - 2.7%	⊙	12.2%	4.1% - 16.2%	⊙
Total Valve	142	1.4%	0.0% - 4.2%	⊙	16.1%	6.5% - 19.4%	⊙
Valve without CABG	83	2.4%	0.0% - 2.4%	⊙	12.3%	5.3% - 21.1%	⊙
Valve with CABG	59	0.0%	0.0% - 8.5%	⊙	22.2%	2.8% - 22.2%	⊙

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Entwistle III, John W.							
CABG without Valve	77	3.9%	0.0% - 5.2%	⊙	19.4%	3.2% - 22.6%	⊙
Total Valve	39	10.3%	0.0% - 10.3%	⊙	NR	NR	NR
Valve without CABG	20	NR	NR	NR	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR	NR
Epler, Mark J.							
CABG without Valve	221	1.8%	0.0% - 2.7%	⊙	13.0%	6.2% - 14.8%	⊙
Total Valve	145	3.4%	0.7% - 4.8%	⊙	14.5%	8.2% - 20.9%	⊙
Valve without CABG	82	3.7%	0.0% - 3.7%	⊙	13.3%	6.7% - 21.7%	⊙
Valve with CABG	63	3.2%	0.0% - 7.9%	⊙	16.0%	6.0% - 24.0%	⊙
Esrig, Barry							
CABG without Valve	10	NR	NR	NR	NR	NR	NR
Total Valve	13	NR	NR	NR	NR	NR	NR
Valve without CABG	8	NR	NR	NR	NR	NR	NR
Valve with CABG	5	NR	NR	NR	NR	NR	NR
Farivar, Robert S.							
CABG without Valve	11	NR	NR	NR	NR	NR	NR
Total Valve	2	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Fazi, Burt							
CABG without Valve	0	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Ferdinand, Francis D.							
CABG without Valve	35	0.0%	0.0% - 2.9%	⊙	8.8%	0.0% - 17.6%	⊙
Total Valve	19	NR	NR	NR	NR	NR	NR
Valve without CABG	10	NR	NR	NR	NR	NR	NR
Valve with CABG	9	NR	NR	NR	NR	NR	NR
Fischer, Wade L.							
CABG without Valve	16	NR	NR	NR	NR	NR	NR
Total Valve	11	NR	NR	NR	NR	NR	NR
Valve without CABG	7	NR	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR	NR
Fitzgibbon, Leo D.							
CABG without Valve	129	0.0%	0.0% - 3.1%	⊙	9.9%	4.9% - 16.0%	⊙
Total Valve	72	4.2%	0.0% - 4.2%	⊙	21.6%	2.7% - 21.6%	⊙
Valve without CABG	53	0.0%	0.0% - 3.8%	⊙	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR	NR
Fitzpatrick, J. Raymond							
CABG without Valve	155	0.0%	0.0% - 2.6%	⊙	8.9%	5.0% - 14.9%	⊙
Total Valve	74	1.4%	0.0% - 4.1%	⊙	11.3%	5.7% - 20.8%	⊙
Valve without CABG	46	2.2%	0.0% - 4.3%	⊙	3.0%	3.0% - 21.2%	⊙
Valve with CABG	28	NR	NR	NR	NR	NR	NR
Frischia, Michael E.							
CABG without Valve	66	0.0%	0.0% - 3.0%	⊙	14.3%	2.9% - 20.0%	⊙
Total Valve	32	0.0%	0.0% - 6.3%	⊙	NR	NR	NR
Valve without CABG	20	NR	NR	NR	NR	NR	NR
Valve with CABG	12	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Fuller, Stephanie							
CABG without Valve	0	NR	NR	NR	NR	NR	NR
Total Valve	13	NR	NR	NR	NR	NR	NR
Valve without CABG	13	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Furukawa, Satoshi							
CABG without Valve	131	1.5%	0.0% - 3.1%	⊙	11.8%	3.9% - 15.8%	⊙
Total Valve	103	3.9%	0.0% - 4.9%	⊙	15.7%	5.9% - 23.5%	⊙
Valve without CABG	75	1.3%	0.0% - 4.0%	⊙	14.6%	4.9% - 22.0%	⊙
Valve with CABG	28	NR	NR	NR	NR	NR	NR
Fuzesi, Laszlo							
CABG without Valve	119	0.0%	0.0% - 2.5%	⊙	5.4%	4.5% - 14.4%	⊙
Total Valve	44	4.5%	0.0% - 4.5%	⊙	24.4%	4.9% - 22.0%	●
Valve without CABG	27	NR	NR	NR	NR	NR	NR
Valve with CABG	17	NR	NR	NR	NR	NR	NR
Garrido, Mauricio							
CABG without Valve	134	1.5%	0.0% - 3.7%	⊙	12.5%	5.0% - 17.5%	⊙
Total Valve	112	4.5%	0.0% - 4.5%	⊙	9.5%	5.4% - 20.3%	⊙
Valve without CABG	68	4.4%	0.0% - 2.9%	●	11.1%	4.4% - 20.0%	⊙
Valve with CABG	44	4.5%	0.0% - 6.8%	⊙	NR	NR	NR
Garzia, Fernando M.							
CABG without Valve	3	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Geller, Charles							
CABG without Valve	53	0.0%	0.0% - 1.9%	⊙	21.9%	0.0% - 18.8%	●
Total Valve	70	7.1%	1.4% - 8.6%	⊙	11.4%	2.9% - 22.9%	⊙
Valve without CABG	45	4.4%	0.0% - 4.4%	⊙	NR	NR	NR
Valve with CABG	25	NR	NR	NR	NR	NR	NR
Ghalili, Kourosh C.							
CABG without Valve	3	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Gilbert, Christian L.							
CABG without Valve	74	1.4%	0.0% - 2.7%	⊙	10.0%	5.0% - 18.3%	⊙
Total Valve	19	NR	NR	NR	NR	NR	NR
Valve without CABG	12	NR	NR	NR	NR	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR	NR
Gleason, Thomas G.							
CABG without Valve	95	0.0%	0.0% - 4.2%	⊙	10.0%	5.7% - 18.6%	⊙
Total Valve	254	4.3%	1.2% - 4.7%	⊙	15.7%	10.1% - 19.7%	⊙
Valve without CABG	154	2.6%	0.0% - 3.9%	⊙	12.8%	8.3% - 19.3%	⊙
Valve with CABG	100	7.0%	1.0% - 8.0%	⊙	20.3%	8.7% - 24.6%	⊙
Gluhovsky, Maxim Y.							
CABG without Valve	5	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Goldberg, Aron T.							
CABG without Valve	133	1.5%	0.0% - 3.0%	⊙	9.9%	4.4% - 15.4%	⊙
Total Valve	59	0.0%	0.0% - 3.4%	⊙	12.8%	2.6% - 23.1%	⊙
Valve without CABG	28	NR	NR	NR	NR	NR	NR
Valve with CABG	31	0.0%	0.0% - 6.5%	⊙	NR	NR	NR
Goldman, Scott M.							
CABG without Valve	0	NR	NR	NR	NR	NR	NR
Total Valve	210	1.9%	0.0% - 2.9%	⊙	9.7%	6.7% - 17.2%	⊙
Valve without CABG	187	1.1%	0.0% - 2.7%	⊙	9.8%	6.5% - 17.1%	⊙
Valve with CABG	23	NR	NR	NR	NR	NR	NR
Grunewald, Karl E.							
CABG without Valve	88	1.1%	0.0% - 3.4%	⊙	10.3%	4.4% - 16.2%	⊙
Total Valve	20	NR	NR	NR	NR	NR	NR
Valve without CABG	9	NR	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR	NR
Guy, T. Sloane							
CABG without Valve	77	2.6%	0.0% - 5.2%	⊙	2.2%	4.4% - 22.2%	⊙
Total Valve	158	4.4%	0.6% - 5.7%	⊙	18.9%	11.3% - 24.5%	⊙
Valve without CABG	138	4.3%	0.7% - 5.1%	⊙	21.3%	10.6% - 24.5%	⊙
Valve with CABG	20	NR	NR	NR	NR	NR	NR
Hakki, Abdul-Hadi							
CABG without Valve	77	1.3%	0.0% - 2.6%	⊙	7.4%	4.4% - 17.6%	⊙
Total Valve	10	NR	NR	NR	NR	NR	NR
Valve without CABG	8	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Hargrove III, W. Clark							
CABG without Valve	103	1.0%	0.0% - 3.9%	⊙	13.3%	0.0% - 20.0%	⊙
Total Valve	271	1.5%	0.4% - 3.3%	⊙	12.6%	5.7% - 17.2%	⊙
Valve without CABG	229	0.9%	0.4% - 3.1%	⊙	14.5%	5.3% - 18.4%	⊙
Valve with CABG	42	4.8%	0.0% - 7.1%	⊙	NR	NR	NR
Harostock, Michael							
CABG without Valve	269	2.2%	0.0% - 1.9%	●	8.6%	5.9% - 12.7%	⊙
Total Valve	78	6.4%	0.0% - 5.1%	●	26.7%	4.4% - 22.2%	●
Valve without CABG	28	NR	NR	NR	NR	NR	NR
Valve with CABG	50	8.0%	0.0% - 6.0%	●	29.0%	3.2% - 22.6%	●
Haupt, Hans M.							
CABG without Valve	116	0.0%	0.0% - 3.4%	⊙	10.3%	3.8% - 16.7%	⊙
Total Valve	44	2.3%	0.0% - 4.5%	⊙	6.1%	3.0% - 21.2%	⊙
Valve without CABG	21	NR	NR	NR	NR	NR	NR
Valve with CABG	23	NR	NR	NR	NR	NR	NR
Haybron, David M.							
CABG without Valve	80	0.0%	0.0% - 3.8%	⊙	14.3%	3.6% - 17.9%	⊙
Total Valve	61	1.6%	0.0% - 6.6%	⊙	17.4%	6.5% - 23.9%	⊙
Valve without CABG	32	0.0%	0.0% - 6.3%	⊙	NR	NR	NR
Valve with CABG	29	NR	NR	NR	NR	NR	NR
Ishac, Roger							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Jaik, Nikhil P.							
CABG without Valve	185	0.5%	0.0% - 2.2%	⊙	6.1%	4.0% - 13.1%	⊙
Total Valve	6	NR	NR	NR	NR	NR	NR
Valve without CABG	4	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR
Jain, Harsh							
CABG without Valve	115	0.9%	0.0% - 3.5%	⊙	10.6%	3.5% - 14.1%	⊙
Total Valve	19	NR	NR	NR	NR	NR	NR
Valve without CABG	11	NR	NR	NR	NR	NR	NR
Valve with CABG	8	NR	NR	NR	NR	NR	NR
Kaczorowski, David J.							
CABG without Valve	176	5.7%	0.0% - 3.4%	●	11.7%	5.8% - 15.8%	⊙
Total Valve	63	3.2%	0.0% - 4.8%	⊙	17.9%	2.6% - 23.1%	⊙
Valve without CABG	44	4.5%	0.0% - 2.3%	●	16.7%	3.3% - 23.3%	⊙
Valve with CABG	19	NR	NR	NR	NR	NR	NR
Kaushik, Raj							
CABG without Valve	75	1.3%	0.0% - 4.0%	⊙	14.6%	4.2% - 20.8%	⊙
Total Valve	45	2.2%	0.0% - 6.7%	⊙	NR	NR	NR
Valve without CABG	26	NR	NR	NR	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR	NR
Khawaja, Fawad							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Lagazzi, Luigi							
CABG without Valve	20	NR	NR	NR	NR	NR	NR
Total Valve	3	NR	NR	NR	NR	NR	NR
Valve without CABG	3	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Laub, Glenn W.							
CABG without Valve	56	0.0%	0.0% - 5.4%	⊙	19.4%	2.8% - 19.4%	⊙
Total Valve	28	NR	NR	NR	NR	NR	NR
Valve without CABG	22	NR	NR	NR	NR	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR	NR
Lazar, Michael J.							
CABG without Valve	171	1.2%	0.0% - 2.3%	⊙	11.4%	4.9% - 14.6%	⊙
Total Valve	159	3.8%	0.0% - 3.8%	⊙	15.5%	6.8% - 19.4%	⊙
Valve without CABG	101	2.0%	0.0% - 3.0%	⊙	13.9%	5.6% - 19.4%	⊙
Valve with CABG	58	6.9%	0.0% - 5.2%	●	19.4%	3.2% - 25.8%	⊙
LeBoutillier III, Martin							
CABG without Valve	177	0.6%	0.0% - 2.3%	⊙	2.1%	4.8% - 13.0%	⊙
Total Valve	78	1.3%	0.0% - 3.8%	⊙	16.4%	4.9% - 19.7%	⊙
Valve without CABG	39	2.6%	0.0% - 2.6%	⊙	NR	NR	NR
Valve with CABG	39	0.0%	0.0% - 5.1%	⊙	12.1%	3.0% - 21.2%	⊙
Lico, Serrie C.							
CABG without Valve	132	2.3%	0.0% - 3.0%	⊙	14.4%	4.8% - 15.4%	⊙
Total Valve	75	4.0%	0.0% - 8.0%	⊙	25.0%	5.6% - 25.0%	⊙
Valve without CABG	35	2.9%	0.0% - 5.7%	⊙	NR	NR	NR
Valve with CABG	40	5.0%	0.0% - 12.5%	⊙	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Lima, Claudio A. B.							
CABG without Valve	172	1.7%	0.0% - 2.9%	⊙	10.8%	4.9% - 15.7%	⊙
Total Valve	118	5.1%	0.8% - 6.8%	⊙	14.1%	9.9% - 25.4%	⊙
Valve without CABG	59	3.4%	0.0% - 5.1%	⊙	20.6%	5.9% - 29.4%	⊙
Valve with CABG	59	6.8%	0.0% - 10.2%	⊙	8.1%	5.4% - 27.0%	⊙
Lomago, Dean F.							
CABG without Valve	170	0.6%	0.0% - 2.4%	⊙	4.0%	4.8% - 13.6%	⊙
Total Valve	20	NR	NR	NR	NR	NR	NR
Valve without CABG	12	NR	NR	NR	NR	NR	NR
Valve with CABG	8	NR	NR	NR	NR	NR	NR
Loran, David B.							
CABG without Valve	332	0.6%	0.0% - 2.1%	⊙	6.7%	5.6% - 12.3%	⊙
Total Valve	66	0.0%	0.0% - 6.1%	⊙	6.8%	2.3% - 18.2%	⊙
Valve without CABG	25	NR	NR	NR	NR	NR	NR
Valve with CABG	41	0.0%	0.0% - 7.3%	⊙	NR	NR	NR
Lotano, Vincent							
CABG without Valve	107	1.9%	0.0% - 2.8%	⊙	11.8%	2.9% - 16.2%	⊙
Total Valve	12	NR	NR	NR	NR	NR	NR
Valve without CABG	6	NR	NR	NR	NR	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR	NR
Machiraju, Venkata R.							
CABG without Valve	147	2.0%	0.0% - 2.7%	⊙	12.0%	5.6% - 15.7%	⊙
Total Valve	195	5.1%	1.0% - 5.6%	⊙	10.9%	9.5% - 20.4%	⊙
Valve without CABG	100	0.0%	0.0% - 4.0%	⊙	8.6%	7.4% - 21.0%	⊙
Valve with CABG	95	10.5%	1.1% - 8.4%	●	14.3%	7.1% - 25.0%	⊙

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Magovern Jr., George J.							
CABG without Valve	85	0.0%	0.0% - 2.4%	⊙	14.8%	3.7% - 16.7%	⊙
Total Valve	52	1.9%	0.0% - 7.7%	⊙	9.4%	6.3% - 25.0%	⊙
Valve without CABG	34	2.9%	0.0% - 5.9%	⊙	NR	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR	NR
Marbey, Mark							
CABG without Valve	122	0.0%	0.0% - 2.5%	⊙	5.3%	4.0% - 16.0%	⊙
Total Valve	41	2.4%	0.0% - 4.9%	⊙	10.0%	3.3% - 23.3%	⊙
Valve without CABG	23	NR	NR	NR	NR	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR	NR
Marra, Steven							
CABG without Valve	75	1.3%	0.0% - 2.7%	⊙	NR	NR	NR
Total Valve	16	NR	NR	NR	NR	NR	NR
Valve without CABG	6	NR	NR	NR	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR	NR
Marrone, Gary C.							
CABG without Valve	35	0.0%	0.0% - 2.9%	⊙	NR	NR	NR
Total Valve	13	NR	NR	NR	NR	NR	NR
Valve without CABG	10	NR	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR	NR
Martella, Arthur T.							
CABG without Valve	21	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Mascio, Christopher E.							
CABG without Valve	0	NR	NR	NR	NR	NR	NR
Total Valve	8	NR	NR	NR	NR	NR	NR
Valve without CABG	7	NR	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR	NR
Mavridis, Savas							
CABG without Valve	208	2.4%	0.5% - 2.9%	⊙	8.0%	5.7% - 13.8%	⊙
Total Valve	116	4.3%	0.0% - 5.2%	⊙	10.6%	6.4% - 18.1%	⊙
Valve without CABG	60	3.3%	0.0% - 3.3%	⊙	10.2%	4.1% - 18.4%	⊙
Valve with CABG	56	5.4%	0.0% - 7.1%	⊙	11.1%	4.4% - 22.2%	⊙
Mayor, Kevin							
CABG without Valve	34	2.9%	0.0% - 5.9%	⊙	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR	NR
Valve without CABG	3	NR	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR	NR
McCarty, Christine M.							
CABG without Valve	243	0.8%	0.0% - 2.5%	⊙	10.9%	5.7% - 13.7%	⊙
Total Valve	106	1.9%	0.0% - 2.8%	⊙	10.6%	5.9% - 18.8%	⊙
Valve without CABG	75	2.7%	0.0% - 2.7%	⊙	13.1%	4.9% - 19.7%	⊙
Valve with CABG	31	0.0%	0.0% - 6.5%	⊙	NR	NR	NR
McClurken, James B.							
CABG without Valve	86	0.0%	0.0% - 3.5%	⊙	4.8%	1.6% - 14.3%	⊙
Total Valve	52	0.0%	0.0% - 5.8%	⊙	14.0%	4.7% - 20.9%	⊙
Valve without CABG	21	NR	NR	NR	NR	NR	NR
Valve with CABG	31	0.0%	0.0% - 6.5%	⊙	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
McGregor, Walter E.							
CABG without Valve	176	3.4%	0.0% - 2.8%	●	11.2%	4.7% - 14.0%	⊙
Total Valve	177	4.0%	1.1% - 5.1%	⊙	15.4%	7.7% - 19.2%	⊙
Valve without CABG	122	3.3%	0.0% - 3.3%	⊙	16.2%	5.9% - 19.1%	⊙
Valve with CABG	55	5.5%	0.0% - 10.9%	⊙	13.9%	5.6% - 25.0%	⊙
McMurtry, Kirk A.							
CABG without Valve	56	3.6%	0.0% - 5.4%	⊙	16.2%	2.7% - 21.6%	⊙
Total Valve	107	2.8%	0.9% - 6.5%	⊙	16.5%	8.9% - 22.8%	⊙
Valve without CABG	79	1.3%	0.0% - 5.1%	⊙	13.3%	6.7% - 23.3%	⊙
Valve with CABG	28	NR	NR	NR	NR	NR	NR
Mehta, Sanjay M.							
CABG without Valve	97	1.0%	0.0% - 3.1%	⊙	5.9%	2.9% - 14.7%	⊙
Total Valve	76	1.3%	0.0% - 3.9%	⊙	9.6%	3.8% - 19.2%	⊙
Valve without CABG	50	0.0%	0.0% - 4.0%	⊙	15.6%	3.1% - 21.9%	⊙
Valve with CABG	26	NR	NR	NR	NR	NR	NR
Misselbeck, Timothy							
CABG without Valve	176	1.1%	0.0% - 2.8%	⊙	13.0%	5.3% - 15.3%	⊙
Total Valve	90	2.2%	0.0% - 6.7%	⊙	15.4%	9.2% - 24.6%	⊙
Valve without CABG	60	1.7%	0.0% - 5.0%	⊙	17.8%	6.7% - 24.4%	⊙
Valve with CABG	30	3.3%	0.0% - 13.3%	⊙	NR	NR	NR
Moraca, Robert J.							
CABG without Valve	96	0.0%	0.0% - 3.1%	⊙	13.0%	3.7% - 16.7%	⊙
Total Valve	97	4.1%	1.0% - 7.2%	⊙	24.0%	6.0% - 24.0%	⊙
Valve without CABG	62	4.8%	0.0% - 6.5%	⊙	23.3%	3.3% - 26.7%	⊙
Valve with CABG	35	2.9%	2.9% - 11.4%	⊙	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Morris, Rohinton J.							
CABG without Valve	122	0.8%	0.0% - 3.3%	⊙	9.1%	3.9% - 16.9%	⊙
Total Valve	135	2.2%	0.0% - 4.4%	⊙	14.1%	7.1% - 20.0%	⊙
Valve without CABG	90	2.2%	0.0% - 4.4%	⊙	13.8%	5.2% - 20.7%	⊙
Valve with CABG	45	2.2%	0.0% - 8.9%	⊙	NR	NR	NR
Mott, Brian D.							
CABG without Valve	76	0.0%	0.0% - 2.6%	⊙	10.5%	3.5% - 15.8%	⊙
Total Valve	42	0.0%	0.0% - 2.4%	⊙	15.2%	3.0% - 21.2%	⊙
Valve without CABG	32	0.0%	0.0% - 3.1%	⊙	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR	NR
Mumtaz, Mubashir							
CABG without Valve	24	NR	NR	NR	NR	NR	NR
Total Valve	555	1.3%	1.3% - 3.4%	⊙	7.0%	9.7% - 15.7%	⊙
Valve without CABG	408	0.5%	0.5% - 2.5%	⊙	6.0%	8.9% - 15.9%	⊙
Valve with CABG	147	3.4%	2.0% - 7.5%	⊙	9.8%	8.0% - 19.6%	⊙
Murtaza, Mohammed							
CABG without Valve	2	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Myers, John L.							
CABG without Valve	0	NR	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR	NR
Valve without CABG	5	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Myers, Stephen							
CABG without Valve	11	NR	NR	NR	NR	NR	NR
Total Valve	3	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR	NR
Navid, Forozan							
CABG without Valve	171	4.7%	0.0% - 4.1%	●	11.9%	6.4% - 17.4%	⊙
Total Valve	119	7.6%	0.8% - 5.9%	●	19.7%	7.9% - 22.4%	⊙
Valve without CABG	70	7.1%	0.0% - 4.3%	●	23.9%	6.5% - 23.9%	⊙
Valve with CABG	49	8.2%	0.0% - 10.2%	⊙	13.3%	3.3% - 26.7%	⊙
Nixon, Todd E.							
CABG without Valve	173	2.3%	0.0% - 2.3%	⊙	4.9%	4.9% - 15.7%	⊙
Total Valve	149	1.3%	0.7% - 4.7%	⊙	13.6%	6.2% - 19.8%	⊙
Valve without CABG	108	0.9%	0.0% - 3.7%	⊙	12.1%	5.2% - 20.7%	⊙
Valve with CABG	41	2.4%	0.0% - 9.8%	⊙	NR	NR	NR
Noorchashm, Hooman							
CABG without Valve	15	NR	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR
Nunez, Anthony I.							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Olenchock Jr., Stephen A.							
CABG without Valve	70	0.0%	0.0% - 2.9%	⊙	8.5%	2.1% - 17.0%	⊙
Total Valve	135	0.0%	0.0% - 3.7%	⊙	8.4%	6.3% - 18.9%	⊙
Valve without CABG	87	0.0%	0.0% - 2.3%	⊙	9.8%	4.9% - 19.7%	⊙
Valve with CABG	48	0.0%	0.0% - 6.3%	⊙	5.9%	2.9% - 23.5%	⊙
Osevala, Mark A.							
CABG without Valve	158	0.6%	0.0% - 2.5%	⊙	9.5%	5.7% - 16.2%	⊙
Total Valve	22	NR	NR	NR	NR	NR	NR
Valve without CABG	11	NR	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR	NR
Ovadia, Philip							
CABG without Valve	140	2.9%	0.0% - 2.9%	⊙	8.8%	3.3% - 14.3%	⊙
Total Valve	58	5.2%	0.0% - 6.9%	⊙	12.5%	3.1% - 25.0%	⊙
Valve without CABG	27	NR	NR	NR	NR	NR	NR
Valve with CABG	31	9.7%	0.0% - 9.7%	⊙	NR	NR	NR
Pae, Walter E.							
CABG without Valve	4	NR	NR	NR	NR	NR	NR
Total Valve	149	0.7%	0.7% - 4.7%	⊙	16.0%	7.5% - 19.8%	⊙
Valve without CABG	121	0.8%	0.0% - 5.0%	⊙	16.7%	7.1% - 20.2%	⊙
Valve with CABG	28	NR	NR	NR	NR	NR	NR
Park, Chong S.							
CABG without Valve	88	2.3%	0.0% - 3.4%	⊙	6.3%	3.2% - 17.5%	⊙
Total Valve	80	2.5%	0.0% - 6.3%	⊙	10.9%	5.5% - 21.8%	⊙
Valve without CABG	43	2.3%	0.0% - 4.7%	⊙	NR	NR	NR
Valve with CABG	37	2.7%	0.0% - 8.1%	⊙	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Park, Kyung S.							
CABG without Valve	213	0.9%	0.0% - 3.3%	⊙	8.5%	6.5% - 15.7%	⊙
Total Valve	146	1.4%	2.1% - 7.5%	○	14.4%	12.6% - 26.1%	⊙
Valve without CABG	62	0.0%	0.0% - 4.8%	⊙	6.3%	8.3% - 25.0%	○
Valve with CABG	84	2.4%	2.4% - 11.9%	⊙	20.6%	12.7% - 30.2%	⊙
Park, Sung J.							
CABG without Valve	157	1.9%	0.0% - 2.5%	⊙	7.0%	5.2% - 14.8%	⊙
Total Valve	42	9.5%	0.0% - 4.8%	●	5.6%	2.8% - 19.4%	⊙
Valve without CABG	19	NR	NR	NR	NR	NR	NR
Valve with CABG	23	NR	NR	NR	NR	NR	NR
Pellegrini, Ronald V.							
CABG without Valve	103	1.0%	0.0% - 2.9%	⊙	15.3%	4.2% - 16.7%	⊙
Total Valve	133	1.5%	0.0% - 4.5%	⊙	19.4%	7.5% - 20.4%	⊙
Valve without CABG	92	0.0%	0.0% - 3.3%	⊙	16.2%	5.9% - 19.1%	⊙
Valve with CABG	41	4.9%	0.0% - 7.3%	⊙	NR	NR	NR
Pendergast, Thomas W.							
CABG without Valve	6	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Pennock, John L.							
CABG without Valve	46	4.3%	0.0% - 4.3%	⊙	12.2%	2.4% - 17.1%	⊙
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Person, Thomas							
CABG without Valve	95	2.1%	0.0% - 3.2%	⊙	5.5%	1.8% - 16.4%	⊙
Total Valve	78	3.8%	0.0% - 5.1%	⊙	7.3%	5.5% - 20.0%	⊙
Valve without CABG	33	0.0%	0.0% - 3.0%	⊙	NR	NR	NR
Valve with CABG	45	6.7%	0.0% - 8.9%	⊙	10.0%	3.3% - 23.3%	⊙
Phillips, Theodore G.							
CABG without Valve	297	0.7%	0.3% - 2.7%	⊙	14.3%	6.7% - 14.3%	⊙
Total Valve	63	4.8%	0.0% - 7.9%	⊙	7.7%	5.8% - 23.1%	⊙
Valve without CABG	24	NR	NR	NR	NR	NR	NR
Valve with CABG	39	5.1%	0.0% - 10.3%	⊙	9.1%	3.0% - 24.2%	⊙
Pierce, Alice M.							
CABG without Valve	38	0.0%	0.0% - 5.3%	⊙	9.1%	3.0% - 21.2%	⊙
Total Valve	4	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR
Plestis, Konstadinos							
CABG without Valve	58	0.0%	0.0% - 3.4%	⊙	9.5%	2.4% - 16.7%	⊙
Total Valve	196	1.0%	1.0% - 5.1%	⊙	14.1%	8.6% - 20.3%	⊙
Valve without CABG	152	1.3%	0.7% - 3.9%	⊙	13.2%	7.7% - 20.9%	⊙
Valve with CABG	44	0.0%	0.0% - 9.1%	⊙	16.2%	5.4% - 24.3%	⊙
Polimenakos, Anastasios C.							
CABG without Valve	0	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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NR: Not reported. Too few cases after exclusions.

Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Priest, Brian P.							
CABG without Valve	118	1.7%	0.0% - 2.5%	⊙	9.8%	4.5% - 14.3%	⊙
Total Valve	57	3.5%	0.0% - 7.0%	⊙	21.8%	5.5% - 23.6%	⊙
Valve without CABG	34	2.9%	0.0% - 2.9%	⊙	24.2%	3.0% - 24.2%	⊙
Valve with CABG	23	NR	NR	NR	NR	NR	NR
Ravishankar, Raman							
CABG without Valve	53	0.0%	0.0% - 3.8%	⊙	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR	NR
Reitknecht, Felice L.							
CABG without Valve	106	0.0%	0.0% - 3.8%	⊙	10.5%	2.6% - 21.1%	⊙
Total Valve	119	2.5%	0.0% - 4.2%	⊙	12.2%	4.9% - 24.4%	⊙
Valve without CABG	75	1.3%	0.0% - 2.7%	⊙	NR	NR	NR
Valve with CABG	44	4.5%	0.0% - 6.8%	⊙	NR	NR	NR
Rizzoni, Walter E.							
CABG without Valve	24	NR	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR
Rodriguez, Roberto							
CABG without Valve	27	NR	NR	NR	NR	NR	NR
Total Valve	75	2.7%	0.0% - 5.3%	⊙	14.3%	4.8% - 23.8%	⊙
Valve without CABG	53	1.9%	0.0% - 3.8%	⊙	NR	NR	NR
Valve with CABG	22	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Rothberg, Martin Lee							
CABG without Valve	3	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Rushing, Gregory							
CABG without Valve	2	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Russo, Louis							
CABG without Valve	156	1.3%	0.0% - 2.6%	⊙	11.9%	3.6% - 15.5%	⊙
Total Valve	75	1.3%	0.0% - 5.3%	⊙	10.4%	4.2% - 20.8%	⊙
Valve without CABG	42	0.0%	0.0% - 4.8%	⊙	NR	NR	NR
Valve with CABG	33	3.0%	0.0% - 6.1%	⊙	NR	NR	NR
Samuels, Louis E.							
CABG without Valve	130	0.8%	0.0% - 3.8%	⊙	11.1%	3.7% - 16.0%	⊙
Total Valve	25	NR	NR	NR	NR	NR	NR
Valve without CABG	13	NR	NR	NR	NR	NR	NR
Valve with CABG	12	NR	NR	NR	NR	NR	NR
Samy, Sanjay							
CABG without Valve	95	1.1%	0.0% - 3.2%	⊙	5.6%	2.8% - 19.4%	⊙
Total Valve	75	2.7%	0.0% - 4.0%	⊙	NR	NR	NR
Valve without CABG	50	4.0%	0.0% - 4.0%	⊙	NR	NR	NR
Valve with CABG	25	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Seibel, P. Scott							
CABG without Valve	19	NR	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR	NR
Valve without CABG	5	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Shah, Salil							
CABG without Valve	282	2.5%	0.7% - 3.2%	⊙	14.0%	7.8% - 16.1%	⊙
Total Valve	58	8.6%	0.0% - 8.6%	⊙	16.1%	6.5% - 29.0%	⊙
Valve without CABG	40	5.0%	0.0% - 5.0%	⊙	NR	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR	NR
Shariff, Haji M.							
CABG without Valve	6	NR	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR
Shears II, Larry							
CABG without Valve	373	3.2%	0.5% - 2.9%	●	10.9%	7.6% - 14.5%	⊙
Total Valve	250	2.0%	0.4% - 3.6%	⊙	14.7%	8.5% - 17.5%	⊙
Valve without CABG	174	1.1%	0.0% - 2.9%	⊙	14.0%	7.4% - 18.2%	⊙
Valve with CABG	76	3.9%	0.0% - 6.6%	⊙	16.1%	5.4% - 21.4%	⊙
Shiose, Akira							
CABG without Valve	2	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Singer, Raymond L.							
CABG without Valve	11	NR	NR	NR	NR	NR	NR
Total Valve	246	0.0%	0.0% - 2.4%	⊙	14.2%	7.1% - 15.8%	⊙
Valve without CABG	217	0.0%	0.0% - 2.3%	⊙	14.9%	6.8% - 16.1%	⊙
Valve with CABG	29	NR	NR	NR	NR	NR	NR
Singh, Deepak							
CABG without Valve	78	5.1%	1.3% - 7.7%	⊙	10.9%	3.6% - 16.4%	⊙
Total Valve	101	5.9%	2.0% - 7.9%	⊙	9.3%	6.7% - 20.0%	⊙
Valve without CABG	65	3.1%	0.0% - 6.2%	⊙	6.4%	6.4% - 23.4%	⊙
Valve with CABG	36	11.1%	0.0% - 13.9%	⊙	NR	NR	NR
Soleimani, Behzad							
CABG without Valve	54	0.0%	0.0% - 3.7%	⊙	18.9%	2.7% - 16.2%	●
Total Valve	23	NR	NR	NR	NR	NR	NR
Valve without CABG	12	NR	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR	NR
Sortino, Antonio							
CABG without Valve	49	0.0%	0.0% - 4.1%	⊙	10.4%	2.1% - 16.7%	⊙
Total Valve	32	6.3%	0.0% - 6.3%	⊙	26.7%	3.3% - 23.3%	●
Valve without CABG	16	NR	NR	NR	NR	NR	NR
Valve with CABG	16	NR	NR	NR	NR	NR	NR
Spray, Thomas L.							
CABG without Valve	0	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR

This surgeon submitted comments available at www.phc4.org.

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Stahl, Russell							
CABG without Valve	118	1.7%	0.0% - 2.5%	⊙	3.5%	4.7% - 16.5%	○
Total Valve	70	4.3%	0.0% - 7.1%	⊙	9.6%	5.8% - 23.1%	⊙
Valve without CABG	38	5.3%	0.0% - 2.6%	●	NR	NR	NR
Valve with CABG	32	3.1%	0.0% - 12.5%	⊙	NR	NR	NR
Stella, Joseph							
CABG without Valve	98	1.0%	0.0% - 4.1%	⊙	9.0%	4.5% - 17.9%	⊙
Total Valve	55	1.8%	0.0% - 5.5%	⊙	13.0%	4.3% - 21.7%	⊙
Valve without CABG	34	0.0%	0.0% - 5.9%	⊙	10.0%	3.3% - 23.3%	⊙
Valve with CABG	21	NR	NR	NR	NR	NR	NR
Stephenson, Edward R.							
CABG without Valve	65	0.0%	0.0% - 3.1%	⊙	17.3%	1.9% - 15.4%	●
Total Valve	50	2.0%	0.0% - 4.0%	⊙	13.9%	2.8% - 22.2%	⊙
Valve without CABG	38	2.6%	0.0% - 5.3%	⊙	NR	NR	NR
Valve with CABG	12	NR	NR	NR	NR	NR	NR
Stivala, Charles							
CABG without Valve	91	2.2%	0.0% - 3.3%	⊙	7.2%	2.9% - 15.9%	⊙
Total Valve	38	5.3%	0.0% - 7.9%	⊙	NR	NR	NR
Valve without CABG	11	NR	NR	NR	NR	NR	NR
Valve with CABG	27	NR	NR	NR	NR	NR	NR
Sullivan, Lawrence X.							
CABG without Valve	93	4.3%	0.0% - 3.2%	●	9.3%	3.7% - 18.5%	⊙
Total Valve	11	NR	NR	NR	NR	NR	NR
Valve without CABG	8	NR	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Sutter, Francis P.							
CABG without Valve	537	0.6%	0.6% - 2.0%	⊙	10.4%	7.3% - 13.2%	⊙
Total Valve	6	NR	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR	NR
Suzuki, Mark Masaru							
CABG without Valve	148	1.4%	0.0% - 2.7%	⊙	9.4%	4.7% - 14.2%	⊙
Total Valve	51	3.9%	0.0% - 3.9%	⊙	15.4%	2.6% - 20.5%	⊙
Valve without CABG	28	NR	NR	NR	NR	NR	NR
Valve with CABG	23	NR	NR	NR	NR	NR	NR
Sylvin, Erik							
CABG without Valve	2	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR	NR
Szeto, Wilson Y.							
CABG without Valve	121	2.5%	0.0% - 3.3%	⊙	NR	NR	NR
Total Valve	268	4.5%	0.7% - 3.7%	●	15.4%	6.2% - 20.0%	⊙
Valve without CABG	211	4.3%	0.5% - 3.8%	●	14.3%	6.1% - 22.4%	⊙
Valve with CABG	57	5.3%	0.0% - 7.0%	⊙	NR	NR	NR
Takahashi, Mitsuko							
CABG without Valve	142	0.7%	0.0% - 3.5%	⊙	10.1%	5.5% - 16.5%	⊙
Total Valve	42	4.8%	0.0% - 7.1%	⊙	17.1%	2.9% - 22.9%	⊙
Valve without CABG	21	NR	NR	NR	NR	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Thakur, Navin S.							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Theman, Terrill							
CABG without Valve	4	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Toyoda, Yoshiya							
CABG without Valve	165	0.6%	2.4% - 7.3%	○	15.7%	9.6% - 24.1%	⊙
Total Valve	58	8.6%	1.7% - 12.1%	⊙	NR	NR	NR
Valve without CABG	31	9.7%	0.0% - 12.9%	⊙	NR	NR	NR
Valve with CABG	27	NR	NR	NR	NR	NR	NR
Trivedi, Dhaval							
CABG without Valve	206	2.4%	0.5% - 3.4%	⊙	4.4%	6.7% - 16.3%	○
Total Valve	69	1.4%	1.4% - 8.7%	⊙	9.1%	4.5% - 25.0%	⊙
Valve without CABG	25	NR	NR	NR	NR	NR	NR
Valve with CABG	44	2.3%	2.3% - 13.6%	⊙	NR	NR	NR
Trocciola, Susan M.							
CABG without Valve	40	2.5%	0.0% - 2.5%	⊙	5.1%	2.6% - 17.9%	⊙
Total Valve	16	NR	NR	NR	NR	NR	NR
Valve without CABG	12	NR	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Tsukashita, Masaki							
CABG without Valve	7	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR	NR
Tuluca, Alexandra							
CABG without Valve	153	1.3%	0.0% - 3.3%	⊙	16.9%	6.0% - 18.1%	⊙
Total Valve	26	NR	NR	NR	NR	NR	NR
Valve without CABG	16	NR	NR	NR	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR	NR
Vallabhajosyula, Prashanth							
CABG without Valve	75	4.0%	0.0% - 4.0%	⊙	15.6%	3.1% - 18.8%	⊙
Total Valve	92	1.1%	1.1% - 7.6%	⊙	13.3%	6.7% - 26.7%	⊙
Valve without CABG	70	1.4%	0.0% - 5.7%	⊙	17.1%	5.7% - 25.7%	⊙
Valve with CABG	22	NR	NR	NR	NR	NR	NR
Vasilakis, Alexander							
CABG without Valve	127	0.8%	0.0% - 2.4%	⊙	9.5%	3.6% - 14.3%	⊙
Total Valve	103	2.9%	0.0% - 3.9%	⊙	8.7%	4.3% - 17.4%	⊙
Valve without CABG	71	1.4%	0.0% - 2.8%	⊙	6.7%	2.2% - 17.8%	⊙
Valve with CABG	32	6.3%	0.0% - 6.3%	⊙	NR	NR	NR
Veluz, Jeffrey S.							
CABG without Valve	127	1.6%	0.0% - 2.4%	⊙	7.5%	3.8% - 16.3%	⊙
Total Valve	28	NR	NR	NR	NR	NR	NR
Valve without CABG	15	NR	NR	NR	NR	NR	NR
Valve with CABG	13	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Vitvitsky, Eugene							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR	NR
Von Koch, Lear							
CABG without Valve	96	7.3%	0.0% - 3.1%	●	10.2%	3.4% - 16.9%	⊙
Total Valve	194	1.5%	0.5% - 4.1%	⊙	14.9%	9.2% - 19.9%	⊙
Valve without CABG	129	0.8%	0.0% - 3.1%	⊙	15.1%	7.5% - 21.5%	⊙
Valve with CABG	65	3.1%	0.0% - 7.7%	⊙	14.6%	6.3% - 22.9%	⊙
Wechsler, Andrew S.							
CABG without Valve	1	NR	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR	NR
Wei, Lawrence M.							
CABG without Valve	175	2.3%	0.0% - 2.3%	⊙	8.2%	4.9% - 14.8%	⊙
Total Valve	207	1.9%	1.0% - 5.3%	⊙	15.4%	9.4% - 19.5%	⊙
Valve without CABG	123	3.3%	0.0% - 4.1%	⊙	13.3%	6.7% - 20.0%	⊙
Valve with CABG	84	0.0%	1.2% - 8.3%	○	18.6%	6.8% - 23.7%	⊙
Weiss, Steven J.							
CABG without Valve	64	0.0%	0.0% - 3.1%	⊙	18.4%	2.6% - 21.1%	⊙
Total Valve	71	1.4%	0.0% - 5.6%	⊙	12.5%	6.3% - 28.1%	⊙
Valve without CABG	54	1.9%	0.0% - 3.7%	⊙	NR	NR	NR
Valve with CABG	17	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Wenger, Robert							
CABG without Valve	134	2.2%	0.0% - 3.0%	⊙	14.5%	3.9% - 15.8%	⊙
Total Valve	52	0.0%	0.0% - 3.8%	⊙	14.3%	4.8% - 23.8%	⊙
Valve without CABG	37	0.0%	0.0% - 2.7%	⊙	10.0%	3.3% - 26.7%	⊙
Valve with CABG	15	NR	NR	NR	NR	NR	NR
West, David							
CABG without Valve	119	0.8%	0.0% - 2.5%	⊙	6.2%	3.7% - 14.8%	⊙
Total Valve	58	1.7%	0.0% - 5.2%	⊙	14.3%	4.8% - 23.8%	⊙
Valve without CABG	34	0.0%	0.0% - 2.9%	⊙	NR	NR	NR
Valve with CABG	24	NR	NR	NR	NR	NR	NR
Wheatley, Grayson H.							
CABG without Valve	62	4.8%	0.0% - 6.5%	⊙	8.9%	8.9% - 26.7%	⊙
Total Valve	50	2.0%	0.0% - 6.0%	⊙	NR	NR	NR
Valve without CABG	34	2.9%	0.0% - 5.9%	⊙	NR	NR	NR
Valve with CABG	16	NR	NR	NR	NR	NR	NR
Williams, Matthew L.							
CABG without Valve	133	0.8%	0.0% - 3.8%	⊙	NR	NR	NR
Total Valve	39	0.0%	0.0% - 7.7%	⊙	NR	NR	NR
Valve without CABG	20	NR	NR	NR	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR	NR
Woelfel, G. Frederick							
CABG without Valve	181	0.0%	0.0% - 2.2%	⊙	5.5%	4.7% - 14.1%	⊙
Total Valve	106	1.9%	0.0% - 3.8%	⊙	15.1%	6.8% - 20.5%	⊙
Valve without CABG	77	0.0%	0.0% - 3.9%	⊙	17.3%	5.8% - 21.2%	⊙
Valve with CABG	29	NR	NR	NR	NR	NR	NR

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Surgeon Results

Surgeon	In-Hospital Mortality				30-Day Readmission		
	Total Number of Cases	Actual Percent	Expected Range	Rating	Actual Percent	Expected Range	Rating
Woods, Edward L.							
CABG without Valve	23	NR	NR	NR	NR	NR	NR
Total Valve	10	NR	NR	NR	NR	NR	NR
Valve without CABG	4	NR	NR	NR	NR	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR	NR
Wu, James							
CABG without Valve	103	1.0%	0.0% - 2.9%	⊙	14.7%	4.4% - 16.2%	⊙
Total Valve	112	1.8%	0.0% - 4.5%	⊙	15.2%	7.6% - 20.3%	⊙
Valve without CABG	78	1.3%	0.0% - 3.8%	⊙	15.0%	6.7% - 21.7%	⊙
Valve with CABG	34	2.9%	0.0% - 8.8%	⊙	NR	NR	NR
Yamane, Kentaro							
CABG without Valve	110	3.6%	0.0% - 3.6%	⊙	14.1%	3.1% - 17.2%	⊙
Total Valve	49	0.0%	0.0% - 8.2%	⊙	15.6%	3.1% - 25.0%	⊙
Valve without CABG	30	0.0%	0.0% - 6.7%	⊙	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR	NR
Zama, Nche							
CABG without Valve	226	0.0%	0.0% - 1.8%	⊙	11.7%	4.4% - 13.1%	⊙
Total Valve	87	2.3%	0.0% - 5.7%	⊙	22.0%	6.0% - 22.0%	⊙
Valve without CABG	48	0.0%	0.0% - 4.2%	⊙	19.4%	3.2% - 22.6%	⊙
Valve with CABG	39	5.1%	0.0% - 10.3%	⊙	NR	NR	NR

- ⊙ Rate was significantly lower than expected.
 - ⊕ Rate was not significantly different than expected.
 - Rate was significantly higher than expected.
- NR: Not reported. Too few cases after exclusions.

Hospital Medicare Payment (2014 Data)

Table Notes

Number of Cases displays the number of cases included in the **Average Medicare Payment**.

Average Medicare Payment reported in this section includes payments made to hospitals for Medicare fee-for-service patients (PA residents) who underwent CABG and/or valve surgery and were discharged between January 1, 2014 and December 31, 2014—the most recent Medicare payment data available. The Medicare payment data was obtained from the Centers for Medicare and Medicaid Services (CMS). Payments from Medicare Advantage plans are not included nor are patient liabilities (e.g., coinsurance and deductible dollar amounts).

Average Hospital Charge is reported for Medicare fee-for-service patients (PA residents discharged between January 1, 2014 and December 31, 2014). It reflects the entire length of the hospital stay and was trimmed and case-mix adjusted. Hospitals typically receive actual payments that are considerably less than the listed charge.

See **Technical Notes** for further details.

	Number of Cases	Average Medicare Payment	Average Hospital Charge
Statewide Statistics			
CABG without Valve	1,853	\$32,499	\$166,938
Total Valve	1,567	\$44,246	\$213,914
Valve without CABG	956	\$43,206	\$205,597
Valve with CABG	611	\$45,873	\$227,452

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Abington Memorial			
CABG without Valve	36	\$34,199	\$182,935
Total Valve	34	\$41,803	\$196,312
Valve without CABG	21	\$41,031	\$183,125
Valve with CABG	13	\$43,052	\$219,716
Albert Einstein			
CABG without Valve	29	\$48,968	\$261,777
Total Valve	11	\$47,886	\$224,196
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Allegheny General			
CABG without Valve	22	\$32,164	\$85,346
Total Valve	44	\$49,901	\$126,653
Valve without CABG	21	\$49,505	\$115,289
Valve with CABG	23	\$50,263	\$137,524
Aria Health			
CABG without Valve	25	\$36,371	\$96,362
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR

NR: Not reported. Fewer than 11 cases.

Hospital Medicare Payment (2014 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Brandywine			
CABG without Valve	12	\$36,581	NR
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Butler Memorial			
CABG without Valve	42	\$26,779	\$100,500
Total Valve	38	\$33,222	\$131,090
Valve without CABG	21	\$31,849	\$126,672
Valve with CABG	17	\$34,919	\$136,495
Chester County			
CABG without Valve	25	\$28,230	\$108,943
Total Valve	21	\$43,010	\$140,397
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Conemaugh Memorial			
CABG without Valve	21	\$28,120	\$79,529
Total Valve	22	\$38,348	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Crozer Chester			
CABG without Valve	14	\$35,122	\$340,712
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Doylestown			
CABG without Valve	36	\$25,037	\$123,080
Total Valve	43	\$35,555	\$137,120
Valve without CABG	28	\$35,875	\$125,021
Valve with CABG	15	\$34,959	\$160,951

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Easton			
CABG without Valve	20	\$35,096	\$416,698
Total Valve	12	\$61,505	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Einstein Montgomery			
CABG without Valve	20	\$33,933	\$225,900
Total Valve	24	\$39,499	\$225,692
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Excelsa Hlth Westmoreland			
CABG without Valve	11	\$22,870	\$60,020
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Forbes			
CABG without Valve	12	\$28,236	\$106,441
Total Valve	22	\$36,211	\$120,717
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Geisinger Community			
CABG without Valve	33	\$27,389	\$169,378
Total Valve	21	\$49,425	\$250,622
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Geisinger Danville			
CABG without Valve	55	\$31,444	\$199,752
Total Valve	71	\$48,540	\$239,831
Valve without CABG	42	\$45,214	\$218,186
Valve with CABG	29	\$53,356	\$274,928

NR: Not reported. Fewer than 11 cases.

Hospital Medicare Payment (2014 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Geisinger Wyoming Valley			
CABG without Valve	36	\$32,307	\$245,660
Total Valve	26	\$48,135	\$293,299
Valve without CABG	15	\$46,067	\$229,162
Valve with CABG	11	\$50,954	NR
Good Samaritan Lebanon			
CABG without Valve	44	\$24,448	\$90,255
Total Valve	27	\$33,150	\$112,451
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Hahnemann University			
CABG without Valve	NR	NR	NR
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Heritage Valley Beaver			
CABG without Valve	21	\$25,485	\$52,173
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Holy Spirit			
CABG without Valve	29	\$28,578	\$125,375
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Hospital University PA			
CABG without Valve	39	\$55,823	\$321,714
Total Valve	116	\$63,069	\$349,885
Valve without CABG	90	\$63,252	\$343,204
Valve with CABG	26	\$62,432	\$365,559

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Jeanes			
CABG without Valve	20	\$35,528	\$349,162
Total Valve	14	\$40,226	\$315,724
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Jefferson			
CABG without Valve	30	\$24,473	\$83,166
Total Valve	23	\$33,484	\$104,834
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Lancaster General			
CABG without Valve	81	\$32,720	\$103,641
Total Valve	89	\$40,382	\$120,206
Valve without CABG	37	\$37,943	\$113,807
Valve with CABG	52	\$42,118	\$129,842
Lancaster Regional			
CABG without Valve	NR	NR	NR
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Lehigh Valley Allentown			
CABG without Valve	133	\$28,871	\$180,537
Total Valve	99	\$40,010	\$239,415
Valve without CABG	71	\$38,521	\$222,139
Valve with CABG	28	\$43,786	\$265,933
Lehigh Valley Muhlenberg			
CABG without Valve	20	\$24,569	\$187,880
Total Valve	20	\$33,867	\$211,674
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR

NR: Not reported. Fewer than 11 cases.

Hospital Medicare Payment (2014 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Main Line Bryn Mawr			
CABG without Valve	NR	NR	NR
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Main Line Lankenau			
CABG without Valve	99	\$34,796	\$187,597
Total Valve	66	\$44,668	\$230,847
Valve without CABG	48	\$44,573	\$217,299
Valve with CABG	18	\$44,923	\$263,960
Main Line Paoli			
CABG without Valve	11	\$29,098	\$198,657
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Mercy Fitzgerald			
CABG without Valve	NR	NR	NR
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Milton S Hershey			
CABG without Valve	61	\$34,379	\$123,680
Total Valve	52	\$44,720	\$133,418
Valve without CABG	31	\$43,168	\$122,288
Valve with CABG	21	\$47,011	\$147,538
Penn Highlands DuBois			
CABG without Valve	24	\$28,753	\$82,182
Total Valve	11	\$37,798	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Penn Presbyterian			
CABG without Valve	15	\$42,989	\$233,858
Total Valve	42	\$54,313	\$267,913
Valve without CABG	27	\$53,165	\$251,206
Valve with CABG	15	\$56,380	\$304,951
Pennsylvania			
CABG without Valve	13	\$45,520	\$272,199
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Phoenixville			
CABG without Valve	20	\$35,487	\$368,744
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Pinnacle Health			
CABG without Valve	77	\$29,915	\$79,747
Total Valve	92	\$37,582	\$100,686
Valve without CABG	54	\$36,266	\$97,472
Valve with CABG	38	\$39,451	\$103,830
Pocono			
CABG without Valve	47	\$36,617	\$96,293
Total Valve	17	\$50,868	\$125,046
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Reading			
CABG without Valve	48	\$29,975	\$119,989
Total Valve	21	\$37,211	\$139,286
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR

NR: Not reported. Fewer than 11 cases.

Hospital Medicare Payment (2014 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Regional Scranton			
CABG without Valve	23	\$26,750	\$157,037
Total Valve	61	\$33,787	\$212,123
Valve without CABG	42	\$33,969	\$195,539
Valve with CABG	19	\$33,383	\$216,013
Robert Packer			
CABG without Valve	22	\$33,428	\$99,245
Total Valve	16	\$37,568	\$138,225
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Saint Vincent			
CABG without Valve	43	\$30,136	\$167,365
Total Valve	29	\$35,664	\$174,849
Valve without CABG	13	\$33,027	\$157,908
Valve with CABG	16	\$37,806	NR
Sharon Regional			
CABG without Valve	NR	NR	NR
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
St Clair Memorial			
CABG without Valve	14	\$29,416	\$108,873
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
St Joseph Reading			
CABG without Valve	22	\$41,773	\$147,775
Total Valve	29	\$41,096	\$136,348
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
St Luke's Bethlehem			
CABG without Valve	43	\$28,476	\$245,159
Total Valve	49	\$41,009	\$348,972
Valve without CABG	23	\$35,909	\$319,184
Valve with CABG	26	\$45,520	\$398,470
St Mary MC			
CABG without Valve	32	\$27,021	\$136,491
Total Valve	22	\$37,636	\$211,462
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Temple University			
CABG without Valve	28	\$53,388	\$381,055
Total Valve	23	\$61,937	\$409,826
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Thomas Jefferson Univ			
CABG without Valve	16	\$51,757	\$222,467
Total Valve	17	\$61,758	\$223,954
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
UPMC Altoona			
CABG without Valve	26	\$25,860	\$99,793
Total Valve	18	\$48,559	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
UPMC Hamot			
CABG without Valve	45	\$27,865	\$212,209
Total Valve	21	\$35,135	\$231,839
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR

NR: Not reported. Fewer than 11 cases.

Hospital Medicare Payment (2014 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
UPMC Mercy			
CABG without Valve	NR	NR	NR
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
UPMC Passavant			
CABG without Valve	21	\$31,240	\$151,942
Total Valve	11	\$35,789	\$143,001
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
UPMC Presby Shadyside			
CABG without Valve	61	\$42,588	\$340,220
Total Valve	101	\$52,003	\$403,428
Valve without CABG	64	\$51,443	\$386,949
Valve with CABG	37	\$52,972	\$432,157
Washington			
CABG without Valve	NR	NR	NR
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
West Penn			
CABG without Valve	15	\$40,165	\$163,368
Total Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Wilkes-Barre General			
CABG without Valve	55	\$25,761	\$158,342
Total Valve	15	\$40,140	\$250,982
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Williamsport Regional			
CABG without Valve	37	\$28,718	\$114,593
Total Valve	20	\$51,296	\$175,980
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
York			
CABG without Valve	69	\$32,971	\$91,876
Total Valve	57	\$43,790	\$101,265
Valve without CABG	36	\$38,424	\$91,809
Valve with CABG	21	\$52,988	\$114,262

NR: Not reported. Fewer than 11 cases.



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For More Information

The information contained in this report and other PHC4 publications is available online at www.phc4.org. Additional financial, hospitalization and ambulatory procedure health care data is available for purchase. For more information, contact PHC4's Special Requests at specialrequests@phc4.org or 717-232-6787.