

# CARDIAC SURGERY IN PENNSYLVANIA

INFORMATION ABOUT HOSPITALS AND CARDIOTHORACIC SURGEONS

Data: July 1, 2011 to December 31, 2012



Pennsylvania Health Care Cost Containment Council November 2013



### **About PHC4**

The Pennsylvania Health Care Cost Containment Council (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. It was created in the mid-1980s when Pennsylvania businesses and labor unions, in collaboration with other key stakeholders, joined forces to pass marketoriented health care reforms. As a result of their efforts, the General Assembly passed legislation (Act 89 of 1986) creating PHC4.

The primary goal is to empower purchasers of health care benefits, such as employers or labor union health and welfare funds, with information they can use to improve quality and restrain costs. More than 840,000 public reports on patient treatment results are downloaded from the PHC4 website each year. Additionally, nearly 100 organizations and individuals annually acquire data that is tailored to their specific needs through PHC4's special requests process. Today, PHC4 is a recognized national leader in public health care reporting.

It is governed by a 25-member board of directors, representing business, labor, consumers, health care providers, insurers, and state government.



Scan this Quick Response Code with your smartphone (using a QR code reader app) or visit **www.phc4.org** to learn more about PHC4.

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### More Data on PHC4's Website

Additional information relevant to this report is posted at **www.phc4.org**.

- Technical Notes, including information about the methodology and the calculations used for this report.
- Downloadable data, including the numbers associated with the outcome symbols and surgeon results relevant to a particular hospital.
- Total CABG/valve volume figures for hospitals and surgeons.

Hospitals and surgeons are provided an opportunity to submit comments regarding the data. No comments were received for this report.

### Introduction

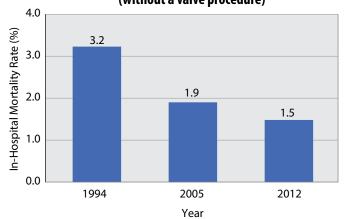
This edition of PHC4's *Cardiac Surgery in Pennsylvania* presents outcomes for the 20,164 patients who underwent coronary artery bypass graft (CABG) surgery and/or heart valve surgery between July 1, 2011 and December 31, 2012 in the 59 Pennsylvania general acute care hospitals that performed these types of procedures during that period. The report displays risk-adjusted outcomes that can be used, in part, to evaluate both hospital and surgeon performance. Reported measures include risk-adjusted in-hospital mortality ratings and 30-day readmission ratings. Average hospital charges and average Medicare fee-forservice payments are also reported for hospitals.

### **Key Findings**

# Mortality – CABG Surgery (without a valve procedure)

Statewide, in-hospital mortality rates decreased 21% between 2005 and 2012 (from 1.9% to 1.5%\*) and 53% between 1994 and 2012 (from 3.2% to 1.5%\*) for patients undergoing CABG surgery (without a valve procedure).

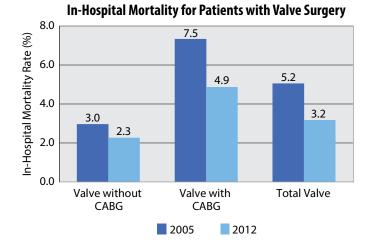
In-Hospital Mortality for Patients with CABG Surgery (without a valve procedure)



### **Mortality – Valve Surgery**

For valve surgery patients, in-hospital mortality rates decreased between 2005, when PHC4 began reporting on valve surgeries, and 2012.

- 23% decrease for the Valve without CABG procedure group (from 3.0% to 2.3%).
- 35% decrease for the Valve with CABG procedure group (from 7.5% to 4.9%\*).
- 38% decrease for the Total Valve procedure group (from 5.2% to 3.2%\*).



\* Difference is statistically significant.

Note: While the outcomes displayed later in this report are based on the 18-month period from July 1, 2011 through December 31, 2012, these Key Findings are based only on data for calendar year 2012 in order to make comparisons to previous calendar years.

## **Key Findings**

Readmissions - 1,462 patients (13.4%) who underwent CABG and/or valve surgery in 2012 were readmitted to the hospital for a heart-related condition or an infection or complication within 30 days of discharge.

Of the four procedure groups reported here, patients who underwent valve with CABG surgery were more likely to be readmitted (17.8%). These patients experienced a higher mortality rate (5.7%) and stayed in the hospital longer (6.9 days) during the readmission.

		eadmitted 30 Days	For patients readmitted within 30 days, the readmissions were associated with			
Procedure Group	Number	Percent	Mortality Percent	Average Length of Stay	Total Days	
Total	1,462	13.4%	2.9%	6.1	8,932	
CABG without Valve	751	11.8%	2.9%	5.9	4,413	
Valve without CABG	431	14.7%	0.9%	6.0	2,598	
Valve with CABG	280	17.8%	5.7%	6.9	1,921	
Total Valve	711	15.8%	2.8%	6.4	4,519	

Note: 2012 Readmissions were based on discharges between January 1, 2012 and November 30, 2012. Data from December 2012 was used to identify 30-day readmissions for patients discharged in November.

Note: While the outcomes displayed later in this report are based on the 18-month period from July 1, 2011 through December 31, 2012, these Key Findings are based only on data for calendar year 2012 in order to make comparisons to previous calendar years.

# **Key Findings**

### **Readmissions – CABG Surgery** (without a valve procedure)

Statewide, 30-day readmission rates decreased 13% between 2005 and 2012 (from 13.6% to 11.8%\*) and 19% between 2000 and 2012 (from 14.5% to 11.8%\*) for patients undergoing CABG surgery (without a valve procedure).

15.0 30-Day Readmission Rate (%) 14.5 14.0 13.6 13.0 12.0 11.8 11.0 2000 2005 2012

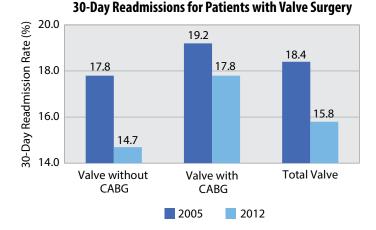
Year

### (without a valve procedure)



For valve surgery patients, 30-day readmission rates decreased between 2005, when PHC4 began reporting on valve surgeries, and 2012.

- 17% decrease for the Valve without CABG procedure group (from 17.8% to 14.7%\*).
- 7% decrease for the Valve with CABG procedure group (from 19.2% to 17.8%).
- 14% decrease for the Total Valve procedure group (from 18.4% to 15.8%\*).



30-Day Readmisssions for Patients with CABG Surgery

Note: While the outcomes displayed later in this report are based on the 18-month period from July 1, 2011 through December 31, 2012, these Key Findings are based only on data for calendar year 2012 in order to make comparisons to previous calendar years.

<sup>\*</sup> Difference is statistically significant.

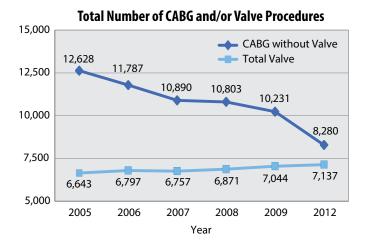
# **Key Findings**

# Total Number of CABG and/or Valve Procedures

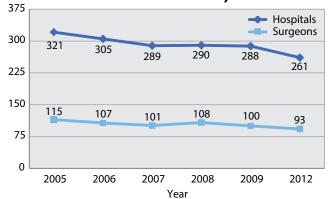
The total number of CABG without valve procedures declined from 12,628 in 2005 to 8,280 in 2012. The total number of valve procedures (with or without CABG) increased slightly from 6,643 in 2005 to 7,137 in 2012.

### Average Number of CABG and/or Valve Procedures

The average number of CABG and/or valve surgeries performed annually by hospitals and by surgeons decreased between 2005 and 2012.



#### Average Number of CABG and/or Valve Procedures Performed Annually



Note: These graphs include total volume counts for the calendar years in which PHC4 published outcome data for CABG and/or valve surgery.

Average medicare ree-ior-service Payment					
Procedure Group	2005	2006	2007	2008	2011
CABG without Valve	\$29,175	\$29,697	\$30,448	\$30,546	\$32,564
Valve without CABG	\$42,433	\$41,448	\$43,801	\$47,346	\$47,540
Valve with CABG	\$44,119	\$44,934	\$46,001	\$47,669	\$49,924
Total Valve	\$43,343	\$43,276	\$44,945	\$47,500	\$48,461

### Medicare Fee-for-Service Payment Trends

### Average Medicare Fee-for-Service Payment

Notes: PHC4 did not report Medicare payment data for CABG and/or valve surgery for 2009 or 2010. 2011 Medicare payment data is the most recent available.

Average Medicare payment figures include the Centers for Medicare and Medicaid Services' Medicare Part A hospital insurance fund payment (fee-for-service), but not patient liabilities such as coinsurance and deductibles.

Note: While the outcomes displayed later in this report are based on the 18-month period from July 1, 2011 through December 31, 2012, these Key Findings are based only on data for calendar year 2012 in order to make comparisons to previous calendar years.

### **Understanding this Report**

# What is coronary artery bypass graft surgery and what is heart valve surgery?

Coronary artery bypass graft (CABG) surgery is a surgical procedure used to treat patients with blockages in the coronary arteries. During the procedure, a surgeon creates an alternate path for blood to flow to the heart muscle by going around, or bypassing, a blocked section of an artery. CABG is typically recommended for severe blockages that are not treatable by other methods. After the procedure is completed, most patients stay in the hospital for several days and face a prolonged rehabilitation period.

Valve surgery is an open-chest surgical procedure used to replace or repair one or more of a patient's heart valves. Valve surgery is used to treat patients with stenosis (narrowing) and regurgitation (abnormal backflow of blood) of a heart valve. In valve replacement surgery, the diseased valve is removed and replaced with an artificial (mechanical) valve or a biological valve from animal or human tissue. In valve repair surgery, the technique is dependent on the underlying cause of the disease.

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

CABG and valve surgeries are frequently performed, costly surgeries. This report includes hospital and surgeon outcomes for 20,164 patients (age 30 and older) who underwent CABG and/or valve surgery in Pennsylvania general acute care hospitals and were discharged between July 1, 2011 and December 31, 2012.

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 this report**

- This report includes hospital-specific and surgeon-specific outcomes for CABG and valve surgeries, as defined by ICD-9-CM (International Classification of Diseases, Ninth Revision, Clinical Modification) codes. Technical Notes relevant to this report provide additional detail. They are posted to PHC4's website at www.phc4.org.
- All of the 59 Pennsylvania general acute care hospitals that performed cardiac surgery during the time period covered in this report are included.
- 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 this report due to mergers and name changes. A list of changes can be found on the PHC4 website at www.phc4.org.

### Where does the data come from?

The hospital discharge data used for this report was submitted to PHC4 by the general acute care hospitals that perform CABG/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. 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 included in this report was obtained from the Centers for Medicare and Medicaid Services.

### Accounting for high-risk patients

Some patients who undergo CABG/valve surgery are more seriously ill than others. Included in the data PHC4 receives from Pennsylvania hospitals is information indicating "how sick the patient was on admission" to the hospital. This information is used to account for high-risk patients in order to report fair comparisons among hospitals and surgeons. Using this information, PHC4 developed a complex mathematical formula to "risk adjust" the mortality and readmission data included in this report, meaning that hospitals and surgeons receive "extra credit" for operating on patients who are more seriously ill or at a greater risk than others. Risk adjusting the data is important because sicker patients might be more likely to die or be readmitted.

PHC4 uses the results from laboratory blood tests, supplemental clinical data elements such as percent blockage in a coronary artery, patient characteristics such as age and gender, and billing codes that describe the patient's medical conditions such as the presence of liver disease, chronic kidney disease, etc. to calculate risk for the patients in this report. A comprehensive description of the risk-adjustment techniques can be found in the Technical Notes on PHC4's website at www.phc4.org.

PHC4 previously relied on a third-party vendor to collect the clinical data used in risk adjustment. In January 2011, hospitals began submitting the laboratory data directly to PHC4 and in July 2011 began submitting supplemental clinical data. This report is the first cardiac surgery report issued by PHC4 since this transition.

### **Understanding this Report**

# What is measured in this report and why are these measures 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. Outcome measures for this report were chosen because they are important components in examining quality of care for CABG/valve surgery patients.

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).
- *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).
- *Total Valve:* Patients who had at least one valve procedure with or without a 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 facility or surgeon has in treating such patients. 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 and procedures done in Veterans' hospitals and in other states), so the actual number of cases that a hospital or surgeon treated might be higher.

### **Understanding this Report**

- *Risk-Adjusted In-Hospital Mortality* 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, 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.
- *Risk-Adjusted 30-Day Hospital Readmissions* 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 or an infection or a complication. Readmissions for other reasons were not included in the analysis. While some rehospitalizations can be expected, high-quality care may lessen the need for subsequent hospitalizations.

Readmissions were based on discharges between July 1, 2011 and November 30, 2012. Data from December 2012 was used to identify 30-day readmissions for patients discharged in November. 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.

### Understanding the Symbols

The symbols displayed in this report represent a comparison of an actual rate to what is expected after accounting for patient risk.

	Description	Explanation		
0	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.		

- *Case-Mix Adjusted Average Hospital Charge* 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. An 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 this report displays the average amount a hospital is paid for a Medicare patient in the fee-for-service system (along with the number of cases included in the average payment and the trimmed and case-mix adjusted average hospital charge for these cases). Payments from Medicare Advantage plans (e.g., Medicare HMOs) are not included.

The average Medicare payment was calculated using the dollar amount that 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. The average payment was calculated by summing the Medicare payment amounts for the cases in a particular procedure group and dividing the sum by the number of cases in that procedure group. Hospitals were given an opportunity to verify the average Medicare payments reported for their facilities prior to the public release of the information.

Medicare payments are based on formulas that take into account regional variations in the costs of delivering care, the increased costs from teaching doctors still in training, higher costs for hospitals that serve larger numbers of low-income patients, and for costs of new technologies. Medicare payments are based on the entire hospital stay, and the payment principles are common to hospitals nationwide. The most recent Medicare payment data available to PHC4 is for calendar year 2011. The average Medicare payment is reported for each hospital that had 11 or more cases in a particular procedure group. Average charge is also reported for the Medicare cases included in the 2011 average Medicare payment. While the average charge figures were based on the same cases included in the average Medicare payment, the final case-mix adjusted average charge may include fewer cases as a result of exclusions specific to the charge analysis. Average charges are not reported when there are fewer than 11 cases in the average charge analysis for a particular procedure group.

### **Uses of the report**

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

- *Patients/Consumers* can use this report to aid in making decisions about where and with whom to seek treatment involving CABG/ valve surgery. This report should be used in conjunction with a physician or other health care provider when making decisions about CABG/valve surgery.
- *Group Benefits Purchasers/Insurers* can use this report as part of a process in determining which hospitals and surgeons provide quality care for employees, subscribers, members or participants who need CABG/valve surgery.
- *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.

#### **Understanding the Symbols**

The symbols displayed in this report represent a comparison of the actual percent of deaths or readmissions the hospital or surgeon had to the percent expected after accounting for how sick the patients were (see page 9).

- Rate significantly lower than expected.
- Rate not significantly different than expected.
- Rate signicantly higher than expected.
- NR Not reported. Too few cases.

Number of cases does not include cases excluded for clinical complexity. Total volume figures for all CABG/ valve surgeries performed in Pennsylvania hospitals are on PHC4's website: www.phc4.org.

#### Average hospital charge is

for the entire length of stay and was trimmed and case-mix adjusted. In almost all cases, hospitals do not receive full charges from private insurers or government payers; hospitals typically receive actual payments that are considerably less than the listed charge.

	Cases	In-Hospital Mortality	30-Day Readmission	Average Hospital Charge	
Statewide					
CABG without Valve	11,612	1.5%	11.9%	\$150,927	
Valve without CABG	5,531	2.2%	15.0%	\$185,898	
Valve with CABG	3,021	4.7%	18.0%	\$219,839	
Total Valve	8,552	3.1%	16.0%	\$197,779	
Abington Memorial					
CABG without Valve	203	$\odot$	$\odot$	\$213,139	
Valve without CABG	105	$\odot$	$\odot$	\$220,056	
Valve with CABG	44	$\odot$	$\odot$	\$260,059	
Total Valve	149		$\odot$	\$235,186	
Albert Einstein					
CABG without Valve	147	$\odot$	$\odot$	\$224,583	
Valve without CABG	48		NR	\$245,527	
Valve with CABG	8	NR	NR	NR	
Total Valve	56	$\odot$		\$262,983	
Allegheny General					
CABG without Valve	334	$\odot$	$\odot$	\$103,937	
Valve without CABG	236	$\odot$	$\odot$	\$120,217	
Valve with CABG	94	$\odot$	$\odot$	\$150,283	
Total Valve	330	$\odot$	$\odot$	\$131,956	
Altoona Regional					
CABG without Valve	140	$\odot$	$\odot$	\$78,883	
Valve without CABG	114	$\odot$		\$112,117	
Valve with CABG	48	$\odot$	$\odot$	\$113,374	
Total Valve	162	$\odot$	$\odot$	\$112,921	
Aria Health					
CABG without Valve	183	$\odot$	$\odot$	\$112,625	
Valve without CABG	23	NR	NR	\$136,259	
Valve with CABG	42	$\odot$	$\odot$	\$184,397	
Total Valve	65	$\odot$	$\odot$	\$150,473	
Brandywine					
CABG without Valve	71	$\odot$	$\odot$	\$292,045	
Valve without CABG	12	NR	NR	\$375,975	
Valve with CABG	15	NR	NR	\$439,574	
Total Valve	27	NR	NR	\$392,324	
Butler Memorial					
CABG without Valve	337	$\odot$	$\odot$	\$84,249	
Valve without CABG	67	$\odot$	$\odot$	\$98,404	
Valve with CABG	65	$\odot$	$\odot$	\$128,786	
Total Valve	132	$\odot$	$\odot$	\$111,168	

	Cases	In-Hospital Mortality	30-Day Readmission	Average Hospital Charge
Chester County				
CABG without Valve	88	$\odot$	$\odot$	\$112,531
Valve without CABG	38		$\odot$	\$136,661
Valve with CABG	31	$\odot$	NR	\$146,325
Total Valve	69	$\odot$	$\odot$	\$137,649
Conemaugh Valley Memo	orial			
CABG without Valve	220	$\odot$	$\odot$	\$71,967
Valve without CABG	61	$\odot$	$\odot$	\$84,825
Valve with CABG	51	$\odot$	$\odot$	\$104,925
Total Valve	112	$\odot$	$\odot$	\$93,051
Crozer Chester				
CABG without Valve	119	$\odot$	$\odot$	\$350,173
Valve without CABG	18	NR	NR	\$420,710
Valve with CABG	28	NR	NR	\$519,342
Total Valve	46	$\odot$	$\odot$	\$449,040
Doylestown				
CABG without Valve	148	$\odot$	$\odot$	\$119,311
Valve without CABG	85	$\odot$	$\odot$	\$123,515
Valve with CABG	52	$\odot$	$\odot$	\$160,618
Total Valve	137	$\odot$	$\odot$	\$136,415
DuBois Regional				
CABG without Valve	140	$\odot$	$\odot$	\$78,039
Valve without CABG	24	NR	NR	\$99,267
Valve with CABG	26	NR	NR	\$112,135
Total Valve	50	$\odot$	$\odot$	\$104,036
Easton				
CABG without Valve	111	$\odot$	$\odot$	\$394,588
Valve without CABG	31	$\odot$	NR	\$398,888
Valve with CABG	27	NR	NR	\$539,805
Total Valve	58	$\odot$	$\odot$	\$453,578
Excela Hith Westmorelan	d			
CABG without Valve	193	$\odot$	$\odot$	\$65,195
Valve without CABG	30	$\odot$	NR	\$65,083
Valve with CABG	25	NR	NR	\$81,683
Total Valve	55	$\odot$	$\odot$	\$71,812
Forbes Regional				
CABG without Valve	149	$\odot$	$\odot$	\$86,504
Valve without CABG	78	•	$\odot$	\$98,985
Valve with CABG	65	•	$\odot$	\$112,584
Total Valve	143	$\odot$	$\odot$	\$104,005



#### **Understanding the Symbols**

The symbols displayed in this report represent a comparison of the actual percent of deaths or readmissions the hospital or surgeon had to the percent expected after accounting for how sick the patients were (see page 9).

- Rate significantly lower than expected.
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Number of cases does not include cases excluded for clinical complexity. Total volume figures for all CABG/ valve surgeries performed in Pennsylvania hospitals are on PHC4's website: www.phc4.org.

### Average hospital charge is

for the entire length of stay and was trimmed and case-mix adjusted. In almost all cases, hospitals do not receive full charges from private insurers or government payers; hospitals typically receive actual payments that are considerably less than the listed charge.

	Cases	In-Hospital Mortality	30-Day Readmission	Average Hospital Charge
Geisinger Wyoming Valle	ey.		11	
CABG without Valve	112	$\odot$	$\odot$	\$194,345
Valve without CABG	61	$\odot$	$\odot$	\$209,806
Valve with CABG	32	$\odot$	NR	\$264,336
Total Valve	93	$\odot$	$\odot$	\$230,122
Geisinger-Community				
CABG without Valve	171	$\odot$	$\odot$	\$89,061
Valve without CABG	52	$\odot$	$\odot$	\$115,700
Valve with CABG	43	$\odot$	$\odot$	\$124,929
Total Valve	95	$\odot$	0	\$118,087
Geisinger/Danville				
CABG without Valve	299	$\odot$	$\odot$	\$159,955
Valve without CABG	228	$\odot$	0	\$183,504
Valve with CABG	73	$\odot$	$\odot$	\$235,699
Total Valve	301	$\odot$	$\odot$	\$196,159
Good Samaritan/Lebano	n			
CABG without Valve	130		$\odot$	\$87,834
Valve without CABG	17	NR	NR	\$91,927
Valve with CABG	14	NR	NR	\$107,626
Total Valve	31	$\odot$	NR	\$97,869
Hahnemann University			<u> </u>	
CABG without Valve	84	$\odot$	$\odot$	\$387,759
Valve without CABG	35	$\odot$	NR	\$405,660
Valve with CABG	13	NR	NR	\$498,392
Total Valve	48	$\odot$	$\odot$	\$426,758
Heritage Valley Beaver				
CABG without Valve	184	$\odot$	$\odot$	\$53,768
Valve without CABG	63		$\odot$	\$65,432
Valve with CABG	39	$\odot$	NR	\$91,374
Total Valve	102		$\odot$	\$75,518
Holy Spirit				
CABG without Valve	355	•		\$110,137
Valve without CABG	47	•	$\odot$	\$113,507
Valve with CABG	52	0	· · ·	\$145,578
Total Valve	99	· · · ·	<b>O</b>	\$126,587
Hospital University PA			I	
CABG without Valve	240	•	$\odot$	\$255,154
Valve without CABG	663	· · · ·	0	\$249,771
Valve with CABG	189	0	· · ·	\$337,464
Total Valve	852	· · · · · · · · · · · · · · · · · · ·	· · ·	\$270,542

	Cases	In-Hospital Mortality	30-Day Readmission	Average Hospital Charge
Jeanes			<u> </u>	
CABG without Valve	81	$\odot$	$\odot$	\$239,859
Valve without CABG	29	NR	NR	\$260,323
Valve with CABG	16	NR	NR	\$328,195
Total Valve	45	$\odot$	$\odot$	\$276,005
Jefferson Regional				
CABG without Valve	277	$\odot$	$\odot$	\$77,687
Valve without CABG	80	$\odot$	$\odot$	\$83,978
Valve with CABG	87	$\odot$	$\odot$	\$115,168
Total Valve	167	$\odot$	$\odot$	\$97,752
Lancaster General			1 1	
CABG without Valve	400	$\odot$		\$97,834
Valve without CABG	139	$\odot$	$\odot$	\$100,870
Valve with CABG	119	$\odot$	$\odot$	\$127,104
Total Valve	258	$\odot$	$\odot$	\$111,384
Lancaster Regional			1 1	
CABG without Valve	52	$\odot$	$\odot$	\$177,243
Valve without CABG	15	NR	NR	\$179,275
Valve with CABG	12	NR	NR	NR
Total Valve	27	NR	NR	\$195,377
Lehigh Valley				
CABG without Valve	424	$\odot$		\$154,875
Valve without CABG	290	$\odot$	$\odot$	\$198,156
Valve with CABG	126	$\odot$		\$220,449
Total Valve	416	$\odot$	$\odot$	\$207,251
Lehigh Valley/Muhlenber	rg			
CABG without Valve	86	$\odot$		\$164,641
Valve without CABG	31	$\odot$	NR	\$203,989
Valve with CABG	27	NR	NR	\$244,702
Total Valve	58	$\odot$	$\odot$	\$216,606
Lower Bucks				
CABG without Valve	36		$\odot$	\$244,110
Valve without CABG	2	NR	NR	NR
Valve with CABG	7	NR	NR	NR
Total Valve	9	NR	NR	NR
Main Line Bryn Mawr				
CABG without Valve	92	$\odot$	$\odot$	\$180,684
Valve without CABG	19	NR	NR	\$188,565
Valve with CABG	17	NR	NR	\$266,650
Total Valve	36		$\odot$	\$218,252



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#### Average hospital charge is

for the entire length of stay and was trimmed and case-mix adjusted. In almost all cases, hospitals do not receive full charges from private insurers or government payers; hospitals typically receive actual payments that are considerably less than the listed charge.

	Cases	In-Hospital Mortality	30-Day Readmission	Average Hospital Charge
Main Line Lankenau			L L	
CABG without Valve	431	$\odot$	$\odot$	\$169,503
Valve without CABG	212	$\odot$	$\odot$	\$229,891
Valve with CABG	55	$\odot$	$\odot$	\$282,941
Total Valve	267	$\odot$	$\odot$	\$250,313
Main Line Paoli				
CABG without Valve	55	$\odot$	$\odot$	\$173,199
Valve without CABG	10	NR	NR	NR
Valve with CABG	4	NR	NR	NR
Total Valve	14	NR	NR	\$184,057
Mercy Fitzgerald				
CABG without Valve	51	$\odot$	$\odot$	\$245,313
Valve without CABG	23	NR	NR	\$276,312
Valve with CABG	10	NR	NR	NR
Total Valve	33	$\odot$		\$284,062
Milton S Hershey				
CABG without Valve	252	$\odot$		\$103,132
Valve without CABG	153	$\odot$	$\odot$	\$112,120
Valve with CABG	89	$\odot$	$\odot$	\$153,669
Total Valve	242	$\odot$	$\odot$	\$128,281
Penn Presbyterian				
CABG without Valve	249	$\odot$	0	\$229,286
Valve without CABG	318	$\odot$	$\odot$	\$242,043
Valve with CABG	86	$\odot$	NR	\$325,176
Total Valve	404	$\odot$	$\odot$	\$261,880
Pennsylvania				
CABG without Valve	102	$\odot$	$\odot$	\$210,245
Valve without CABG	35	$\odot$	NR	\$215,753
Valve with CABG	17	NR	NR	\$299,470
Total Valve	52	$\odot$	$\odot$	\$237,270
Phoenixville				
CABG without Valve	95	$\odot$	$\odot$	\$330,589
Valve without CABG	11	NR	NR	NR
Valve with CABG	20	NR	NR	\$411,821
Total Valve	31	$\odot$	NR	\$356,980
Pinnacle Health				
CABG without Valve	378	$\odot$	$\odot$	\$80,167
Valve without CABG	210	$\odot$	$\odot$	\$99,465
Valve with CABG	150	$\odot$	$\odot$	\$117,064
Total Valve	360	$\odot$	$\odot$	\$106,458

	Cases	In-Hospital Mortality	30-Day Readmission	Average Hospital Charge
Pocono			<u> </u>	
CABG without Valve	176	$\odot$	$\odot$	\$80,773
Valve without CABG	40	$\odot$	$\odot$	\$96,193
Valve with CABG	26	NR	NR	\$126,475
Total Valve	66	$\odot$	$\odot$	\$107,725
Reading		-	1	
CABG without Valve	170	$\odot$	$\odot$	\$119,203
Valve without CABG	56	$\odot$	$\odot$	\$121,624
Valve with CABG	32	$\odot$	NR	\$147,986
Total Valve	88	$\odot$	$\odot$	\$130,749
Regional Scranton		-	1	
CABG without Valve	140	$\odot$	$\odot$	\$94,257
Valve without CABG	112		$\odot$	\$109,437
Valve with CABG	50	$\odot$	$\odot$	\$119,487
Total Valve	162	$\odot$	$\odot$	\$114,225
Robert Packer				
CABG without Valve	118	$\odot$	$\odot$	\$90,517
Valve without CABG	96	$\odot$	$\odot$	\$100,736
Valve with CABG	47	$\odot$	NR	\$133,652
Total Valve	143	$\odot$	$\odot$	\$112,691
Saint Vincent Health				
CABG without Valve	338	$\odot$	$\odot$	\$149,891
Valve without CABG	58	$\odot$	$\odot$	\$167,472
Valve with CABG	74	$\odot$	$\odot$	\$227,235
Total Valve	132	$\odot$	$\odot$	\$195,447
Sharon Regional				
CABG without Valve	67	$\odot$	0	\$94,998
Valve without CABG	10	NR	NR	NR
Valve with CABG	8	NR	NR	NR
Total Valve	18	NR	NR	\$131,104
St Clair Memorial				
CABG without Valve	136	$\odot$	$\odot$	\$84,726
Valve without CABG	56	$\odot$	0	\$91,162
Valve with CABG	33	$\odot$	$\odot$	\$110,034
Total Valve	89	$\odot$	0	\$98,759
St Joseph/Reading				
CABG without Valve	82	$\odot$	$\odot$	\$102,583
Valve without CABG	40	$\odot$	$\odot$	\$125,803
Valve with CABG	27	NR	NR	\$136,189
Total Valve	67	$\odot$	$\odot$	\$128,314



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	Cases	In-Hospital Mortality	30-Day Readmission	Average Hospital Charge
St Luke's/Bethlehem			L L	
CABG without Valve	203		0	\$241,115
Valve without CABG	88	$\odot$	$\odot$	\$267,029
Valve with CABG	47	$\odot$	$\odot$	\$359,655
Total Valve	135	$\odot$	$\odot$	\$299,046
St Mary			·	
CABG without Valve	170	$\odot$	$\odot$	\$134,601
Valve without CABG	55	$\odot$	$\odot$	\$193,042
Valve with CABG	37	$\odot$	NR	\$221,618
Total Valve	92	$\odot$		\$201,249
Temple University			·	
CABG without Valve	178	$\odot$	$\odot$	\$362,242
Valve without CABG	97	$\odot$	$\odot$	\$378,853
Valve with CABG	35	$\odot$	NR	\$531,367
Total Valve	132	$\odot$	$\odot$	\$416,357
Thomas Jefferson Univ				
CABG without Valve	190	$\odot$	$\odot$	\$208,106
Valve without CABG	90	$\odot$		\$209,700
Valve with CABG	37	$\odot$	NR	\$263,952
Total Valve	127	$\odot$		\$222,440
UPMC Hamot			·	
CABG without Valve	438	$\odot$	$\odot$	\$186,235
Valve without CABG	154	$\odot$	$\odot$	\$197,408
Valve with CABG	82	$\odot$	$\odot$	\$255,946
Total Valve	236	$\odot$	$\odot$	\$222,201
UPMC Mercy				
CABG without Valve	199	$\odot$	$\odot$	\$144,644
Valve without CABG	79	$\odot$	$\odot$	\$166,698
Valve with CABG	40	$\odot$	$\odot$	\$202,212
Total Valve	119	$\odot$	$\odot$	\$181,054
UPMC Passavant				
CABG without Valve	220	$\odot$	$\odot$	\$113,203
Valve without CABG	108	$\odot$	$\odot$	\$127,095
Valve with CABG	80	$\odot$	$\odot$	\$161,757
Total Valve	188	0	$\odot$	\$140,965
UPMC Presby Shadyside			· · ·	
CABG without Valve	679	$\odot$	$\odot$	\$267,238
Valve without CABG	453	$\odot$	$\odot$	\$306,731
Valve with CABG	308	$\odot$	$\odot$	\$375,415
Total Valve	761	$\odot$	$\odot$	\$334,280

	Cases	In-Hospital Mortality	30-Day Readmission	Average Hospital Charge
Washington		· · ·	<u> </u>	
CABG without Valve	148	$\odot$	$\odot$	\$82,645
Valve without CABG	26	NR	NR	\$105,704
Valve with CABG	27	NR	NR	\$127,999
Total Valve	53	$\odot$	$\odot$	\$114,528
Wilkes-Barre General				
CABG without Valve	255	$\odot$	$\odot$	\$142,561
Valve without CABG	27	NR	NR	\$169,196
Valve with CABG	41	$\odot$	$\odot$	\$197,639
Total Valve	68	$\odot$	$\odot$	\$177,753
Williamsport Regional				
CABG without Valve	74	$\odot$	$\odot$	\$90,589
Valve without CABG	27	NR	NR	\$116,369
Valve with CABG	11	NR	NR	\$118,664
Total Valve	38	$\odot$	0	\$115,966
York				
CABG without Valve	412	$\odot$	$\odot$	\$77,204
Valve without CABG	146	$\odot$	$\odot$	\$81,286
Valve with CABG	61	$\odot$	$\odot$	\$89,011
Total Valve	207	$\odot$		\$86,022



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	Cases	In-Hospital Mortality	30-Day Readmission
Abrishamchian, A. Reza			
CABG without Valve	93		$\odot$
Valve without CABG	12	NR	NR
Valve with CABG	12	NR	NR
Total Valve	24	NR	NR
Acker, Michael A.			
CABG without Valve	57	$\odot$	$\odot$
Valve without CABG	191	$\odot$	$\odot$
Valve with CABG	59	$\odot$	NR
Total Valve	250	$\odot$	$\odot$
Alpern, Jeffrey			
CABG without Valve	8	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR
Amortegui, Jose D.			
CABG without Valve	79	$\odot$	$\odot$
Valve without CABG	12	NR	NR
Valve with CABG	7	NR	NR
Total Valve	19	NR	NR
Anastasi, John S.			
CABG without Valve	89	$\odot$	$\odot$
Valve without CABG	98	$\odot$	$\odot$
Valve with CABG	34	$\odot$	$\odot$
Total Valve	132	$\odot$	$\odot$
Anderson, Mark			
CABG without Valve	51	$\odot$	$\odot$
Valve without CABG	35		NR
Valve with CABG	1	NR	NR
Total Valve	36	$\odot$	NR
Anene, Charles			
CABG without Valve	36		$\odot$
Valve without CABG	2	NR	NR
Valve with CABG	7	NR	NR
Total Valve	9	NR	NR
Angelico, Richard J.			
CABG without Valve	59	$\odot$	$\odot$
Valve without CABG	23	NR	NR
Valve with CABG	22	NR	NR
Total Valve	45	$\odot$	$\odot$

	Cases	In-Hospital Mortality	30-Day Readmission
Atluri, Pavan			1
CABG without Valve	118	$\odot$	$\odot$
Valve without CABG	18	NR	NR
Valve with CABG	28	NR	NR
Total Valve	46	$\odot$	NR
Auteri, Joseph S.			1
CABG without Valve	110	$\odot$	$\odot$
Valve without CABG	80	$\odot$	$\odot$
Valve with CABG	46	$\odot$	$\odot$
Total Valve	126	$\odot$	$\odot$
Badami, Chirag			1
CABG without Valve	16	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	2	NR	NR
Total Valve	2	NR	NR
Badhwar, Vinay			1
CABG without Valve	16	NR	NR
Valve without CABG	95	$\odot$	$\odot$
Valve with CABG	18	NR	NR
Total Valve	113	$\odot$	$\odot$
Bailey, Stephen H.			1
CABG without Valve	70	$\odot$	$\odot$
Valve without CABG	92	$\odot$	$\odot$
Valve with CABG	36	$\odot$	$\odot$
Total Valve	128	$\odot$	$\odot$
Bajwa, Gurjyot			
CABG without Valve	48	$\odot$	$\odot$
Valve without CABG	35	$\odot$	NR
Valve with CABG	9	NR	NR
Total Valve	44	$\odot$	$\odot$
Bavaria, Joseph E.			
CABG without Valve	8	NR	NR
Valve without CABG	119	$\odot$	$\odot$
Valve with CABG	29	NR	NR
Total Valve	148	$\odot$	$\odot$
Benoit, Charles H.			
CABG without Valve	133	$\odot$	$\odot$
Valve without CABG	64	$\odot$	$\odot$
Valve with CABG	25	NR	NR
Total Valve	89	$\odot$	$\odot$



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	Cases	In-Hospital Mortality	30-Day Readmission
Bermudez, Christian		·	
CABG without Valve	48	$\odot$	$\odot$
Valve without CABG	15	NR	NR
Valve with CABG	9	NR	NR
Total Valve	24	NR	NR
Bhama, Jay K.			
CABG without Valve	16	NR	NR
Valve without CABG	2	NR	NR
Valve with CABG	4	NR	NR
Total Valve	6	NR	NR
Boateng, Percy		1	
CABG without Valve	21	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	1	NR	NR
Total Valve	2	NR	NR
Bogar, Linda J.	<b>I</b>	1	
CABG without Valve	58	$\odot$	$\odot$
Valve without CABG	11	NR	NR
Valve with CABG	8	NR	NR
Total Valve	19	NR	NR
Bonde, Pramod N.			I
CABG without Valve	0	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	0	NR	NR
Total Valve	1	NR	NR
Boonswang, Narongsak Ab			1
CABG without Valve	52	$\odot$	$\odot$
Valve without CABG	8	NR	NR
Valve with CABG	5	NR	NR
Total Valve	13	NR	NR
Brown, Paul			I
CABG without Valve	47	$\odot$	$\odot$
Valve without CABG	15	NR	NR
Valve with CABG	11	NR	NR
Total Valve	26	NR	NR
Burlingame, Mark W.			I
CABG without Valve	145	$\odot$	$\odot$
Valve without CABG	62	<u> </u>	<u></u>
Valve with CABG	52	<u> </u>	<u></u>
Total Valve	114	· · · · · · · · · · · · · · · · · · ·	· · · · ·

	Cases	In-Hospital Mortality	30-Day Readmission
Butler, Michael D.		-	1
CABG without Valve	97	$\odot$	$\odot$
Valve without CABG	41	$\odot$	NR
Valve with CABG	19	NR	NR
Total Valve	60	$\odot$	$\odot$
Campbell, David B.			•
CABG without Valve	38	$\odot$	$\odot$
Valve without CABG	20	NR	NR
Valve with CABG	24	NR	NR
Total Valve	44	$\odot$	$\odot$
Cardone, John C.			•
CABG without Valve	93	$\odot$	$\odot$
Valve without CABG	8	NR	NR
Valve with CABG	20	NR	NR
Total Valve	28	NR	NR
Carter, Russell A.			
CABG without Valve	104	$\odot$	$\odot$
Valve without CABG	58	$\odot$	$\odot$
Valve with CABG	32	$\odot$	NR
Total Valve	90	$\odot$	$\odot$
Casale, Alfred S.			
CABG without Valve	13	NR	NR
Valve without CABG	5	NR	NR
Valve with CABG	2	NR	NR
Total Valve	7	NR	NR
Casey, Kevin			
CABG without Valve	19	NR	NR
Valve without CABG	16	NR	NR
Valve with CABG	6	NR	NR
Total Valve	22	NR	NR
Chu, Danny			
CABG without Valve	7	NR	NR
Valve without CABG	2	NR	NR
Valve with CABG	0	NR	NR
Total Valve	2	NR	NR
Clark, Joseph B.			
CABG without Valve	0	NR	NR
Valve without CABG	3	NR	NR
Valve with CABG	0	NR	NR
Total Valve	3	NR	NR



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Cook, Chris C.	·		
CABG without Valve	111	$\odot$	$\odot$
Valve without CABG	37	$\odot$	$\odot$
Valve with CABG	22	NR	NR
Total Valve	59	$\odot$	$\odot$
Cope, Jeffrey T.			1
CABG without Valve	153	$\odot$	$\odot$
Valve without CABG	61	$\odot$	
Valve with CABG	48	$\odot$	$\odot$
Total Valve	109	$\odot$	$\odot$
Costic, Joseph T.			1
CABG without Valve	14	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	0	NR	NR
Total Valve	1	NR	NR
Crouch, Ray D.			1
CABG without Valve	2	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR
Culig, Michael H.			1
CABG without Valve	94	$\odot$	$\odot$
Valve without CABG	28	NR	NR
Valve with CABG	38	$\odot$	$\odot$
Total Valve	66	$\odot$	$\odot$
Darrell, John C.			1
CABG without Valve	30	$\odot$	NR
Valve without CABG	5	NR	NR
Valve with CABG	4	NR	NR
Total Valve	9	NR	NR
Dasika, Uday K.			1
CABG without Valve	29	NR	NR
Valve without CABG	10	NR	NR
Valve with CABG	8	NR	NR
Total Valve	18	NR	NR
Davliakos, George P.			
CABG without Valve	114	$\odot$	$\odot$
Valve without CABG	14	NR	NR
Valve with CABG	21	NR	NR
Total Valve	35	$\odot$	$\odot$

	Cases	In-Hospital Mortality	30-Day Readmission
Desai, Nimesh Dilip			l
CABG without Valve	99	$\odot$	$\odot$
Valve without CABG	38	$\odot$	NR
Valve with CABG	24	NR	NR
Total Valve	62	$\odot$	$\odot$
Devineni, Rajsekhar			
CABG without Valve	76	$\odot$	$\odot$
Valve without CABG	21	NR	NR
Valve with CABG	15	NR	NR
Total Valve	36	$\odot$	$\odot$
DiMarco Jr., Ross F.			
CABG without Valve	91	$\odot$	$\odot$
Valve without CABG	39	$\odot$	$\odot$
Valve with CABG	26	NR	NR
Total Valve	65	$\odot$	$\odot$
Diehl, James T.			
CABG without Valve	84	$\odot$	$\odot$
Valve without CABG	48	$\odot$	
Valve with CABG	22	NR	NR
Total Valve	70	$\odot$	
El-Khatib, Hazem N.			
CABG without Valve	165	$\odot$	0
Valve without CABG	46	$\odot$	$\odot$
Valve with CABG	36	$\odot$	NR
Total Valve	82	$\odot$	$\odot$
Entwistle III, John W.			
CABG without Valve	28	NR	NR
Valve without CABG	9	NR	NR
Valve with CABG	4	NR	NR
Total Valve	13	NR	NR
Epler, Mark J.			
CABG without Valve	91	$\odot$	$\odot$
Valve without CABG	14	NR	NR
Valve with CABG	14	NR	NR
Total Valve	28	NR	NR
Esrig, Barry			
CABG without Valve	14	NR	NR
Valve without CABG	6	NR	NR
Valve with CABG	6	NR	NR
Total Valve	12	NR	NR



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	Cases	In-Hospital Mortality	30-Day Readmission
Farivar, Robert S.			
CABG without Valve	15	NR	NR
Valve without CABG	14	NR	NR
Valve with CABG	4	NR	NR
Total Valve	18	NR	NR
Fazi, Burt			1
CABG without Valve	49	$\odot$	$\odot$
Valve without CABG	16	NR	NR
Valve with CABG	14	NR	NR
Total Valve	30		NR
Ferdinand, Francis D.		-	
CABG without Valve	102	$\odot$	$\odot$
Valve without CABG	23	NR	NR
Valve with CABG	21	NR	NR
Total Valve	44	$\odot$	$\odot$
Fitzgibbon, Leo D.	<b>I</b>	_	
CABG without Valve	89	$\odot$	$\odot$
Valve without CABG	27	NR	NR
Valve with CABG	10	NR	NR
Total Valve	37	$\odot$	NR
Fuller, Stephanie	<b>I</b>	_	
CABG without Valve	0	NR	NR
Valve without CABG	8	NR	NR
Valve with CABG	0	NR	NR
Total Valve	8	NR	NR
Furukawa, Satoshi	1	_	
CABG without Valve	77	$\odot$	$\odot$
Valve without CABG	28	NR	NR
Valve with CABG	17	NR	NR
Total Valve	45	$\odot$	$\odot$
Fuzesi, Laszlo		-	
CABG without Valve	82	$\odot$	$\odot$
Valve without CABG	12	NR	NR
Valve with CABG	7	NR	NR
Total Valve	19	NR	NR
Garrido, Mauricio		·	
CABG without Valve	103	$\odot$	$\odot$
Valve without CABG	45	$\odot$	$\odot$
Valve with CABG	19	NR	NR
Total Valve	64	$\odot$	$\odot$

	Cases	In-Hospital Mortality	30-Day Readmission
Ghalili, Kourosh			1
CABG without Valve	15	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	1	NR	NR
Total Valve	2	NR	NR
Gilbert, Christian L.		_	1
CABG without Valve	1	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	0	NR	NR
Total Valve	1	NR	NR
Gleason, Thomas G.		_	1
CABG without Valve	75	$\odot$	$\odot$
Valve without CABG	84	•	$\odot$
Valve with CABG	58	$\odot$	$\odot$
Total Valve	142	$\odot$	$\odot$
Goldberg, Aron T.	<b>I</b>	_	
CABG without Valve	92	$\odot$	$\odot$
Valve without CABG	17	NR	NR
Valve with CABG	16	NR	NR
Total Valve	33	$\odot$	NR
Goldman, Scott M.	<b>I</b>	_	
CABG without Valve	3	NR	NR
Valve without CABG	173	$\odot$	$\odot$
Valve with CABG	20	NR	NR
Total Valve	193	$\odot$	$\odot$
Gongora, Enrique		_	1
CABG without Valve	2	NR	NR
Valve without CABG	2	NR	NR
Valve with CABG	0	NR	NR
Total Valve	2	NR	NR
Grunewald, Karl E.			
CABG without Valve	70	$\odot$	$\odot$
Valve without CABG	11	NR	NR
Valve with CABG	17	NR	NR
Total Valve	28	NR	NR
Guerraty, Albert J.			
CABG without Valve	35	$\odot$	NR
Valve without CABG	4	NR	NR
Valve with CABG	5	NR	NR
Total Valve	9	NR	NR



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	Cases	In-Hospital Mortality	30-Day Readmission
Gurbuz, Tayfun		1	
CABG without Valve	117	$\odot$	$\odot$
Valve without CABG	85	$\odot$	$\odot$
Valve with CABG	52	$\odot$	$\odot$
Total Valve	137	$\odot$	$\odot$
Guy, T. Sloane		-	
CABG without Valve	103	$\odot$	$\odot$
Valve without CABG	86	$\odot$	$\odot$
Valve with CABG	24	NR	NR
Total Valve	110	$\odot$	$\odot$
Hargrove III, W. Clark		-	
CABG without Valve	58	$\odot$	NR
Valve without CABG	189	$\odot$	$\odot$
Valve with CABG	27	NR	NR
Total Valve	216	$\odot$	$\odot$
Harostock, Michael		-	
CABG without Valve	255	$\odot$	$\odot$
Valve without CABG	27	NR	NR
Valve with CABG	41	$\odot$	$\odot$
Total Valve	68	$\odot$	$\odot$
Haupt, Hans M.		-	1
CABG without Valve	97	$\odot$	$\odot$
Valve without CABG	11	NR	NR
Valve with CABG	20	NR	NR
Total Valve	31	$\odot$	NR
Haybron, David M.			
CABG without Valve	38	$\odot$	$\odot$
Valve without CABG	19	NR	NR
Valve with CABG	15	NR	NR
Total Valve	34	$\odot$	NR
Hetzler, Norman A.			
CABG without Valve	64	$\odot$	$\odot$
Valve without CABG	15	NR	NR
Valve with CABG	12	NR	NR
Total Valve	27	NR	NR
Highbloom, Richard Y.			
CABG without Valve	1	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR

	Cases	In-Hospital Mortality	30-Day Readmission
Hirose, Hitoshi			1
CABG without Valve	21	NR	NR
Valve without CABG	2	NR	NR
Valve with CABG	0	NR	NR
Total Valve	2	NR	NR
Kormos, Robert L.			
CABG without Valve	0	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	0	NR	NR
Total Valve	1	NR	NR
Kumar, Surya R.			
CABG without Valve	3	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	1	NR	NR
Total Valve	1	NR	NR
Laub, Glenn W.			
CABG without Valve	49	$\odot$	$\odot$
Valve without CABG	22	NR	NR
Valve with CABG	9	NR	NR
Total Valve	31	$\odot$	NR
Lazar, Michael J.			·
CABG without Valve	107	$\odot$	
Valve without CABG	21	NR	NR
Valve with CABG	18	NR	NR
Total Valve	39	$\odot$	$\odot$
LeBoutillier III, Martin			
CABG without Valve	54	$\odot$	$\odot$
Valve without CABG	8	NR	NR
Valve with CABG	9	NR	NR
Total Valve	17	NR	NR
Lima, Claudio A. B.			
CABG without Valve	73	$\odot$	$\odot$
Valve without CABG	37	$\odot$	NR
Valve with CABG	16	NR	NR
Total Valve	53	$\odot$	$\odot$
Loran, David B.			
CABG without Valve	255	$\odot$	$\odot$
Valve without CABG	27	NR	NR
Valve with CABG	30	$\odot$	NR
Total Valve	57	$\odot$	$\odot$



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Machiraju, Venkata R.			1
CABG without Valve	196	$\odot$	$\odot$
Valve without CABG	105	$\odot$	$\odot$
Valve with CABG	92	$\odot$	$\odot$
Total Valve	197	$\odot$	$\odot$
Magovern Jr., George J.			
CABG without Valve	47	$\odot$	$\odot$
Valve without CABG	35	$\odot$	$\odot$
Valve with CABG	11	NR	NR
Total Valve	46	$\odot$	$\odot$
Maher, Thomas			
CABG without Valve	6	NR	NR
Valve without CABG	17	NR	NR
Valve with CABG	0	NR	NR
Total Valve	17	NR	NR
Marbey, Mark			
CABG without Valve	91	$\odot$	$\odot$
Valve without CABG	23	NR	NR
Valve with CABG	18	NR	NR
Total Valve	41	$\odot$	$\odot$
Marrone, Gary C.			
CABG without Valve	54	$\odot$	0
Valve without CABG	10	NR	NR
Valve with CABG	8	NR	NR
Total Valve	18	NR	NR
Martella, Arthur T.			
CABG without Valve	7	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR
Mavridis, Savas			
CABG without Valve	144	$\odot$	$\odot$
Valve without CABG	40	$\odot$	$\odot$
Valve with CABG	36	$\odot$	$\odot$
Total Valve	76	$\odot$	
McCarty, Christine M.			
CABG without Valve	214	$\odot$	$\odot$
Valve without CABG	27	NR	NR
Valve with CABG	25	NR	NR
Total Valve	52	$\odot$	$\odot$

	Cases	In-Hospital Mortality	30-Day Readmission
McClurken, James B.			
CABG without Valve	39	$\odot$	$\odot$
Valve without CABG	7	NR	NR
Valve with CABG	7	NR	NR
Total Valve	14	NR	NR
McGary, Suzan A.			
CABG without Valve	29	NR	NR
Valve without CABG	4	NR	NR
Valve with CABG	3	NR	NR
Total Valve	7	NR	NR
McGregor, Walter E.			
CABG without Valve	136	$\odot$	$\odot$
Valve without CABG	49	$\odot$	$\odot$
Valve with CABG	20	NR	NR
Total Valve	69	$\odot$	$\odot$
McMurtry, Kirk A.			
CABG without Valve	39	$\odot$	$\odot$
Valve without CABG	33	$\odot$	NR
Valve with CABG	20	NR	NR
Total Valve	53	$\odot$	$\odot$
Mehta, Sanjay M.			
CABG without Valve	75	$\odot$	
Valve without CABG	31	$\odot$	NR
Valve with CABG	23	NR	NR
Total Valve	54	$\odot$	$\odot$
Metcalf, Randy K.			
CABG without Valve	125	$\odot$	$\odot$
Valve without CABG	13	NR	NR
Valve with CABG	32	$\odot$	$\odot$
Total Valve	45	$\odot$	$\odot$
Misselbeck, Timothy			
CABG without Valve	79	$\odot$	$\odot$
Valve without CABG	22	NR	NR
Valve with CABG	16	NR	NR
Total Valve	38	$\odot$	
Moraca, Robert J.			
CABG without Valve	76	$\odot$	$\odot$
Valve without CABG	43	$\odot$	$\odot$
Valve with CABG	27	NR	NR
Total Valve	70	$\odot$	



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Moritz, Troy A.			
CABG without Valve	1	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR
Morris, Rohinton J.			
CABG without Valve	100	$\odot$	$\odot$
Valve without CABG	60		$\odot$
Valve with CABG	25	NR	NR
Total Valve	85		$\odot$
Mott, Brian D.	·	·	·
CABG without Valve	46	$\odot$	$\odot$
Valve without CABG	10	NR	NR
Valve with CABG	8	NR	NR
Total Valve	18	NR	NR
Mumtaz, Mubashir	·	·	·
CABG without Valve	100	$\odot$	$\odot$
Valve without CABG	181	$\odot$	$\odot$
Valve with CABG	120	$\odot$	$\odot$
Total Valve	301	$\odot$	$\odot$
Myers, John L.	·	·	·
CABG without Valve	0	NR	NR
Valve without CABG	5	NR	NR
Valve with CABG	0	NR	NR
Total Valve	5	NR	NR
Navid, Forozan			
CABG without Valve	154	$\odot$	$\odot$
Valve without CABG	42	$\odot$	$\odot$
Valve with CABG	43		NR
Total Valve	85	$\odot$	$\odot$
Nixon, Todd E.			
CABG without Valve	87	$\odot$	$\odot$
Valve without CABG	40	$\odot$	NR
Valve with CABG	23	NR	NR
Total Valve	63	$\odot$	
Nunez, Anthony I.			
CABG without Valve	1	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR

	Cases	In-Hospital Mortality	30-Day Readmission
Nutting, Ron D.			
CABG without Valve	58	$\odot$	$\odot$
Valve without CABG	3	NR	NR
Valve with CABG	7	NR	NR
Total Valve	10	NR	NR
Olenchock Jr., Stephen A.			
CABG without Valve	57	$\odot$	$\odot$
Valve without CABG	57	$\odot$	$\odot$
Valve with CABG	33	$\odot$	$\odot$
Total Valve	90	$\odot$	$\odot$
Osevala, Mark A.			
CABG without Valve	74	$\odot$	$\odot$
Valve without CABG	27	NR	NR
Valve with CABG	11	NR	NR
Total Valve	38	$\odot$	0
Ovadia, Philip			
CABG without Valve	93	$\odot$	$\odot$
Valve without CABG	12	NR	NR
Valve with CABG	19	NR	NR
Total Valve	31		NR
Pae, Walter E.			
CABG without Valve	16	NR	NR
Valve without CABG	70	$\odot$	$\odot$
Valve with CABG	27	NR	NR
Total Valve	97	$\odot$	$\odot$
Park, Chong S.			-
CABG without Valve	105	$\odot$	$\odot$
Valve without CABG	40	$\odot$	$\odot$
Valve with CABG	23	NR	NR
Total Valve	63	$\odot$	$\odot$
Park, Kyung S.			
CABG without Valve	148	$\odot$	$\odot$
Valve without CABG	32	$\odot$	NR
Valve with CABG	53	$\odot$	$\odot$
Total Valve	85	$\odot$	$\odot$
Park, Sang B.			
CABG without Valve	3	NR	NR
Valve without CABG	7	NR	NR
Valve with CABG	9	NR	NR
Total Valve	16	NR	NR



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	Cases	In-Hospital Mortality	30-Day Readmission
Park, Sung J.		-1	
CABG without Valve	150		$\odot$
Valve without CABG	21	NR	NR
Valve with CABG	25	NR	NR
Total Valve	46	$\odot$	$\odot$
Pellegrini, Ronald V.			
CABG without Valve	54	$\odot$	$\odot$
Valve without CABG	50	$\odot$	$\odot$
Valve with CABG	25	NR	NR
Total Valve	75	$\odot$	$\odot$
Pennock, John L.			
CABG without Valve	7	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	2	NR	NR
Total Valve	3	NR	NR
Person, Thomas	÷		
CABG without Valve	81	$\odot$	$\odot$
Valve without CABG	10	NR	NR
Valve with CABG	20	NR	NR
Total Valve	30	$\odot$	NR
Pettiford, Brian L.			
CABG without Valve	2	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR
Phillips, Theodore G.			
CABG without Valve	174	$\odot$	$\odot$
Valve without CABG	14	NR	NR
Valve with CABG	23	NR	NR
Total Valve	37	$\odot$	$\odot$
Pierce, Alice M.			
CABG without Valve	73	$\odot$	$\odot$
Valve without CABG	4	NR	NR
Valve with CABG	3	NR	NR
Total Valve	7	NR	NR
Pochettino, Alberto			
CABG without Valve	42	$\odot$	NR
Valve without CABG	49	$\odot$	$\odot$
Valve with CABG	17	NR	NR
Total Valve	66	$\odot$	$\odot$

	Cases	In-Hospital Mortality	30-Day Readmission
Polimenakos, Anastasios C.			
CABG without Valve	0	NR	NR
Valve without CABG	3	NR	NR
Valve with CABG	0	NR	NR
Total Valve	3	NR	NR
Priest, Brian P.			
CABG without Valve	61	$\odot$	$\odot$
Valve without CABG	31	$\odot$	NR
Valve with CABG	23	NR	NR
Total Valve	54	$\odot$	$\odot$
Pym, John			
CABG without Valve	26	NR	NR
Valve without CABG	3	NR	NR
Valve with CABG	2	NR	NR
Total Valve	5	NR	NR
Ravishankar, Raman			
CABG without Valve	49	$\odot$	$\odot$
Valve without CABG	7	NR	NR
Valve with CABG	11	NR	NR
Total Valve	18	NR	NR
Reitknecht, Felice L.			
CABG without Valve	48	$\odot$	NR
Valve without CABG	57	$\odot$	NR
Valve with CABG	29	NR	NR
Total Valve	86	$\odot$	$\odot$
Rice, Philip L.			
CABG without Valve	2	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR
Rizzoni, Walter E.			
CABG without Valve	17	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	1	NR	NR
Total Valve	1	NR	NR
Rodriguez, Roberto			
CABG without Valve	42	$\odot$	$\odot$
Valve without CABG	17	NR	NR
Valve with CABG	11	NR	NR
Total Valve	28	NR	NR



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	Cases	In-Hospital Mortality	30-Day Readmission
Rothberg, Martin Lee			1
CABG without Valve	2	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR
Samuels, Louis E.			
CABG without Valve	114	$\odot$	$\odot$
Valve without CABG	27	NR	NR
Valve with CABG	19	NR	NR
Total Valve	46	$\odot$	$\odot$
Samy, Sanjay			
CABG without Valve	56	$\odot$	NR
Valve without CABG	33	$\odot$	NR
Valve with CABG	12	NR	NR
Total Valve	45	$\odot$	NR
Seibel, P. Scott			
CABG without Valve	16	NR	NR
Valve without CABG	12	NR	NR
Valve with CABG	1	NR	NR
Total Valve	13	NR	NR
Shariff, Haji M.			
CABG without Valve	66	$\odot$	$\odot$
Valve without CABG	15	NR	NR
Valve with CABG	13	NR	NR
Total Valve	28	NR	NR
Shears II, Larry		·	
CABG without Valve	304	$\odot$	$\odot$
Valve without CABG	110	$\odot$	
Valve with CABG	46	$\odot$	$\odot$
Total Valve	156	$\odot$	
Singer, Raymond L.		·	
CABG without Valve	20	NR	NR
Valve without CABG	140	$\odot$	$\odot$
Valve with CABG	37	$\odot$	$\odot$
Total Valve	177	0	$\odot$
Singh, Deepak			
CABG without Valve	55	$\odot$	$\odot$
Valve without CABG	31	$\odot$	NR
Valve with CABG	17	NR	NR
Total Valve	48	$\odot$	$\odot$

	Cases	In-Hospital Mortality	30-Day Readmission
Soleimani, Behzad		-1	
CABG without Valve	44	$\odot$	
Valve without CABG	12	NR	NR
Valve with CABG	10	NR	NR
Total Valve	22	NR	NR
Sortino, Antonio		-1	
CABG without Valve	167		$\odot$
Valve without CABG	24	NR	NR
Valve with CABG	31	$\odot$	NR
Total Valve	55	$\odot$	
Speziali, Giovanni			
CABG without Valve	109	$\odot$	$\odot$
Valve without CABG	70	$\odot$	$\odot$
Valve with CABG	57	$\odot$	$\odot$
Total Valve	127	$\odot$	$\odot$
Stahl, Russell			I
CABG without Valve	64	$\odot$	$\odot$
Valve without CABG	38	$\odot$	$\odot$
Valve with CABG	31	•	NR
Total Valve	69	$\odot$	$\odot$
Stella, Joseph			I
CABG without Valve	44	$\odot$	$\odot$
Valve without CABG	25	NR	NR
Valve with CABG	13	NR	NR
Total Valve	38	$\odot$	$\odot$
Stephenson, Edward R.			I
CABG without Valve	46	$\odot$	$\odot$
Valve without CABG	22	NR	NR
Valve with CABG	10	NR	NR
Total Valve	32	$\odot$	NR
Stivala, Charles		_	I
CABG without Valve	62	$\odot$	$\odot$
Valve without CABG	4	NR	NR
Valve with CABG	4	NR	NR
Total Valve	8	NR	NR
Strzalka, Christopher T.			
CABG without Valve	118	•	$\odot$
Valve without CABG	1	NR	NR
Valve with CABG	0	NR	NR
Total Valve	1	NR	NR



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Sullivan, Lawrence X.		·	
CABG without Valve	35	$\odot$	$\odot$
Valve without CABG	2	NR	NR
Valve with CABG	5	NR	NR
Total Valve	7	NR	NR
Sutter, Francis P.			
CABG without Valve	317	$\odot$	$\odot$
Valve without CABG	1	NR	NR
Valve with CABG	5	NR	NR
Total Valve	6	NR	NR
Suzuki, Mark Masaru		·	
CABG without Valve	91	$\odot$	$\odot$
Valve without CABG	11	NR	NR
Valve with CABG	9	NR	NR
Total Valve	20	NR	NR
Szeto, Wilson Y.			
CABG without Valve	86	$\odot$	NR
Valve without CABG	138	$\odot$	$\odot$
Valve with CABG	37	$\odot$	NR
Total Valve	175	$\odot$	0
Szydlowski, Gary W.			
CABG without Valve	80	$\odot$	$\odot$
Valve without CABG	47	$\odot$	$\odot$
Valve with CABG	25	NR	NR
Total Valve	72	$\odot$	$\odot$
Takahashi, Mitsuko			
CABG without Valve	19	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	2	NR	NR
Total Valve	3	NR	NR
Taylor, Bradley S.			
CABG without Valve	121	$\odot$	$\odot$
Valve without CABG	42	$\odot$	$\odot$
Valve with CABG	19	NR	NR
Total Valve	61	$\odot$	$\odot$
Theman, Terrill			
CABG without Valve	6	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	1	NR	NR
Total Valve	1	NR	NR

	Cases	In-Hospital Mortality	30-Day Readmission
Thompson, Richard B.			
CABG without Valve	11	NR	NR
Valve without CABG	2	NR	NR
Valve with CABG	5	NR	NR
Total Valve	7	NR	NR
Toyoda, Yoshiya			
CABG without Valve	79	$\odot$	$\odot$
Valve without CABG	10	NR	NR
Valve with CABG	9	NR	NR
Total Valve	19	NR	NR
Trivedi, Dhaval			
CABG without Valve	3	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	0	NR	NR
Total Valve	0	NR	NR
Trocciola, Susan M.			
CABG without Valve	11	NR	NR
Valve without CABG	0	NR	NR
Valve with CABG	1	NR	NR
Total Valve	1	NR	NR
Vallabhajosyula, Prashanth			•
CABG without Valve	22	NR	NR
Valve without CABG	5	NR	NR
Valve with CABG	8	NR	NR
Total Valve	13	NR	NR
Vasilakis, Alexander			
CABG without Valve	75	$\odot$	$\odot$
Valve without CABG	39	$\odot$	$\odot$
Valve with CABG	19	NR	NR
Total Valve	58	$\odot$	$\odot$
Vasseur, Bernard G.			
CABG without Valve	59	$\odot$	$\odot$
Valve without CABG	27	NR	NR
Valve with CABG	8	NR	NR
Total Valve	35	$\odot$	$\odot$
Veluz, Jeffrey S.			
CABG without Valve	67		$\odot$
Valve without CABG	19	NR	NR
Valve with CABG	7	NR	NR
Total Valve	26	NR	NR



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	Cases	In-Hospital Mortality	30-Day Readmission
Von Koch, Lear		-	1
CABG without Valve	71	$\odot$	$\odot$
Valve without CABG	75		$\odot$
Valve with CABG	35	$\odot$	$\odot$
Total Valve	110	$\odot$	$\odot$
Wechsler, Andrew S.			
CABG without Valve	1	NR	NR
Valve without CABG	1	NR	NR
Valve with CABG	0	NR	NR
Total Valve	1	NR	NR
Wei, Lawrence M.			
CABG without Valve	107	$\odot$	$\odot$
Valve without CABG	103	$\odot$	
Valve with CABG	72	$\odot$	$\odot$
Total Valve	175	$\odot$	$\odot$
Weiss, Steven J.			
CABG without Valve	51	$\odot$	$\odot$
Valve without CABG	24	NR	NR
Valve with CABG	10	NR	NR
Total Valve	34	$\odot$	
Wenger, Robert			
CABG without Valve	75	$\odot$	$\odot$
Valve without CABG	11	NR	NR
Valve with CABG	16	NR	NR
Total Valve	27	NR	NR
West, David			
CABG without Valve	102	$\odot$	$\odot$
Valve without CABG	19	NR	NR
Valve with CABG	16	NR	NR
Total Valve	35	$\odot$	$\odot$
Wilcox, Kenneth			
CABG without Valve	49	$\odot$	$\odot$
Valve without CABG	21	NR	NR
Valve with CABG	9	NR	NR
Total Valve	30	$\odot$	NR
Woelfel, G. Frederick			T
CABG without Valve	126	$\odot$	$\odot$
Valve without CABG	55	$\odot$	0
Valve with CABG	33	$\odot$	$\odot$
Total Valve	88	$\odot$	0

	Cases	In-Hospital Mortality	30-Day Readmission
Woo, Y. Joseph	÷		
CABG without Valve	80	$\odot$	$\odot$
Valve without CABG	247	$\odot$	$\odot$
Valve with CABG	58	$\odot$	$\odot$
Total Valve	305	$\odot$	$\odot$
Woods, Edward L.			
CABG without Valve	62	$\odot$	$\odot$
Valve without CABG	103	$\odot$	$\odot$
Valve with CABG	16	NR	NR
Total Valve	119	$\odot$	$\odot$
Woolley, Daniel S.	÷		
CABG without Valve	49	$\odot$	$\odot$
Valve without CABG	11	NR	NR
Valve with CABG	12	NR	NR
Total Valve	23	NR	NR
Wu, James	÷		
CABG without Valve	82	$\odot$	$\odot$
Valve without CABG	67	$\odot$	$\odot$
Valve with CABG	29	NR	NR
Total Valve	96	$\odot$	$\odot$
Youdelman, Benjamin Abraha	m		
CABG without Valve	7	NR	NR
Valve without CABG	2	NR	NR
Valve with CABG	0	NR	NR
Total Valve	2	NR	NR
Zama, Nche			·
CABG without Valve	104	$\odot$	$\odot$
Valve without CABG	35	$\odot$	$\odot$
Valve with CABG	24	NR	NR
Total Valve	59	$\odot$	$\odot$



#### **Average Medicare Payment**

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### **Average Hospital Charge**

As reported here, the average hospital charge for Medicare Fee-for-Service patients was adjusted for the mix of cases specific to each hospital. Hospitals typically receive actual payments that are considerably less than the listed charge.

	Cases	Average Medicare Payment	Average Hospital Charge
Statewide			
CABG without Valve	2,359	\$32,564	\$143,647
Valve without CABG	1,379	\$47,540	\$184,532
Valve with CABG	869	\$49,924	\$206,633
Total Valve	2,248	\$48,461	\$193,029
Abington Memorial		1	1
CABG without Valve	48	\$35,137	\$186,683
Valve without CABG	31	\$47,863	\$207,421
Valve with CABG	18	\$57,646	\$208,757
Total Valve	49	\$51,456	\$208,862
Albert Einstein			
CABG without Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Allegheny General			
CABG without Valve	52	\$33,064	\$124,943
Valve without CABG	28	\$49,373	\$132,703
Valve with CABG	23	\$45,962	\$144,127
Total Valve	51	\$47,834	\$136,625
Altoona Regional			
CABG without Valve	41	\$24,922	\$70,587
Valve without CABG	28	\$41,453	\$123,883
Valve with CABG	14	\$43,962	\$125,432
Total Valve	42	\$42,289	\$124,775
Aria Health			
CABG without Valve	37	\$40,185	\$108,551
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	11	\$56,137	NR
Brandywine			
CABG without Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Butler Memorial			
CABG without Valve	57	\$28,346	\$83,675
Valve without CABG	20	\$35,461	\$101,733
Valve with CABG	11	\$53,772	NR
Total Valve	31	\$41,958	\$118,796

	Cases	Average Medicare Payment	Average Hospital Charge
Chester County			
CABG without Valve	23	\$29,832	\$132,816
Valve without CABG	26	\$39,040	\$151,129
Valve with CABG	14	\$34,955	\$137,537
Total Valve	40	\$37,611	\$147,132
Conemaugh Valley Memorial			
CABG without Valve	32	\$29,604	\$71,033
Valve without CABG	14	\$38,738	\$98,998
Valve with CABG	12	\$44,058	\$118,619
Total Valve	26	\$41,193	\$107,566
Crozer Chester			
CABG without Valve	20	\$42,067	\$360,596
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	22	\$55,583	\$400,599
Doylestown			
CABG without Valve	28	\$26,203	\$120,463
Valve without CABG	19	\$33,875	\$125,271
Valve with CABG	13	\$30,987	\$133,487
Total Valve	32	\$32,702	\$130,090
DuBois Regional			
CABG without Valve	47	\$30,276	\$85,811
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	20	\$39,656	\$98,857
Easton			
CABG without Valve	41	\$40,339	\$407,337
Valve without CABG	11	\$54,647	NR
Valve with CABG	21	\$61,312	\$494,346
Total Valve	32	\$59,021	\$414,412
Excela Hith Westmoreland			
CABG without Valve	25	\$27,666	\$74,558
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Forbes Regional	1		1
CABG without Valve	20	\$28,883	\$77,436
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	18	\$40,319	\$111,632



#### **Average Medicare Payment**

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### **Average Hospital Charge**

As reported here, the average hospital charge for Medicare Fee-for-Service patients was adjusted for the mix of cases specific to each hospital. Hospitals typically receive actual payments that are considerably less than the listed charge.

	Cases	Average Medicare Payment	Average Hospital Charge
Geisinger Wyoming Valley	<b>I</b>		
CABG without Valve	20	\$34,641	\$163,069
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	33	\$39,588	\$205,875
Geisinger-Community			
CABG without Valve	53	\$26,067	\$80,287
Valve without CABG	18	\$36,748	\$99,708
Valve with CABG	23	\$39,224	\$118,779
Total Valve	41	\$38,137	\$108,808
Geisinger/Danville			
CABG without Valve	52	\$35,595	\$169,958
Valve without CABG	55	\$47,577	\$199,369
Valve with CABG	12	\$43,750	NR
Total Valve	67	\$46,892	\$196,812
Good Samaritan/Lebanon			
CABG without Valve	40	\$26,567	\$90,933
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	12	\$31,768	\$116,457
Hahnemann University			
CABG without Valve	15	\$55,763	\$403,501
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Heritage Valley Beaver			
CABG without Valve	15	\$28,933	\$62,180
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	15	\$34,330	\$70,721
Holy Spirit			
CABG without Valve	77	\$22,527	\$100,076
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	26	\$33,890	\$131,405
Hospital University PA			
CABG without Valve	54	\$53,527	\$268,958
Valve without CABG	210	\$68,666	\$256,123
Valve with CABG	71	\$75,382	\$318,176
Total Valve	281	\$70,363	\$273,769

	Cases	Average Medicare Payment	Average Hospital Charge
Jeanes	·		
CABG without Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Jefferson Regional			
CABG without Valve	29	\$24,667	\$72,832
Valve without CABG	17	\$35,473	\$79,040
Valve with CABG	12	\$50,441	\$128,636
Total Valve	29	\$41,667	\$100,165
Lancaster General			
CABG without Valve	103	\$29,112	\$96,336
Valve without CABG	36	\$44,858	\$102,578
Valve with CABG	45	\$43,804	\$127,223
Total Valve	81	\$44,273	\$114,046
Lancaster Regional	·		
CABG without Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	11	\$77,234	NR
Lehigh Valley			
CABG without Valve	120	\$31,543	\$157,443
Valve without CABG	93	\$41,487	\$202,955
Valve with CABG	43	\$44,736	\$237,943
Total Valve	136	\$42,514	\$221,271
Lehigh Valley/Muhlenberg			
CABG without Valve	30	\$29,355	\$160,348
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	26	\$41,571	\$220,888
Lower Bucks			
CABG without Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Main Line Bryn Mawr			
CABG without Valve	19	\$33,541	\$161,215
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR



#### **Average Medicare Payment**

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### **Average Hospital Charge**

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	Cases	Average Medicare Payment	Average Hospital Charge
Main Line Lankenau			
CABG without Valve	102	\$32,223	\$150,989
Valve without CABG	64	\$40,689	\$248,320
Valve with CABG	14	\$42,706	\$226,685
Total Valve	78	\$41,051	\$240,796
Main Line Paoli		•	
CABG without Valve	14	\$29,275	\$166,210
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Mercy Fitzgerald	ц		
CABG without Valve	NR	NR	NR
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Milton S Hershey	U		
CABG without Valve	38	\$39,514	\$101,757
Valve without CABG	43	\$49,797	\$114,343
Valve with CABG	28	\$54,613	\$155,552
Total Valve	71	\$51,696	\$132,780
Penn Presbyterian		·	
CABG without Valve	66	\$39,479	\$214,788
Valve without CABG	93	\$55,218	\$235,588
Valve with CABG	35	\$59,652	\$282,473
Total Valve	128	\$56,431	\$249,059
Pennsylvania			
CABG without Valve	20	\$42,409	\$229,805
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	13	\$58,034	\$250,826
Phoenixville			
CABG without Valve	18	\$33,598	\$287,552
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
Pinnacle Health			
CABG without Valve	86	\$31,348	\$80,605
Valve without CABG	52	\$40,875	\$105,813
Valve with CABG	48	\$45,317	\$116,676
Total Valve	100	\$43,007	\$110,891

	Cases	Average Medicare Payment	Average Hospital Charge
Pocono			
CABG without Valve	48	\$33,154	\$87,225
Valve without CABG	13	\$39,691	\$84,289
Valve with CABG	15	\$47,669	\$100,260
Total Valve	28	\$43,965	\$91,766
Reading			
CABG without Valve	40	\$32,082	\$120,748
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	20	\$44,178	\$145,009
Regional Scranton			
CABG without Valve	59	\$25,966	\$80,560
Valve without CABG	39	\$36,349	\$105,038
Valve with CABG	16	\$39,696	\$115,464
Total Valve	55	\$37,323	\$109,816
Robert Packer			
CABG without Valve	54	\$29,641	\$86,715
Valve without CABG	23	\$46,363	\$110,324
Valve with CABG	20	\$50,658	\$142,888
Total Valve	43	\$48,361	\$125,605
Saint Vincent Health			
CABG without Valve	78	\$29,569	\$152,513
Valve without CABG	14	\$41,890	\$137,985
Valve with CABG	24	\$48,195	\$228,827
Total Valve	38	\$45,872	\$190,288
Sharon Regional			
CABG without Valve	20	\$28,531	\$92,884
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	NR	NR	NR
St Clair Memorial			
CABG without Valve	17	\$30,558	\$92,410
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	11	\$31,758	\$102,968
St Joseph/Reading			
CABG without Valve	20	\$33,394	\$117,612
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	18	\$46,024	\$126,421



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### **Average Hospital Charge**

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	Cases	Average Medicare Payment	Average Hospital Charge
St Luke's/Bethlehem		1 .	
CABG without Valve	52	\$37,842	\$236,485
Valve without CABG	25	\$38,355	\$259,590
Valve with CABG	14	\$47,505	\$322,768
Total Valve	39	\$41,640	\$285,055
St Mary			
CABG without Valve	37	\$28,638	\$114,782
Valve without CABG	17	\$42,390	\$201,486
Valve with CABG	15	\$45,443	\$186,467
Total Valve	32	\$43,821	\$198,402
Temple University	ц		
CABG without Valve	13	\$50,174	\$411,037
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	13	\$75,547	\$509,670
Thomas Jefferson Univ			
CABG without Valve	42	\$44,633	\$192,334
Valve without CABG	27	\$63,880	\$198,012
Valve with CABG	12	\$57,847	\$234,922
Total Valve	39	\$62,024	\$208,455
UPMC Hamot			
CABG without Valve	105	\$28,296	\$183,647
Valve without CABG	43	\$35,909	\$185,037
Valve with CABG	32	\$44,602	\$240,672
Total Valve	75	\$39,618	\$214,652
UPMC Mercy			
CABG without Valve	23	\$36,984	\$139,157
Valve without CABG	NR	NR	NR
Valve with CABG	NR	NR	NR
Total Valve	14	\$68,883	NR
UPMC Passavant			
CABG without Valve	22	\$27,027	\$126,135
Valve without CABG	17	\$37,517	\$155,509
Valve with CABG	12	\$35,146	\$144,453
Total Valve	29	\$36,536	\$152,372
UPMC Presby Shadyside			
CABG without Valve	89	\$38,718	\$285,225
Valve without CABG	72	\$45,413	\$274,568
Valve with CABG	58	\$49,609	\$365,511
Total Valve	130	\$47,285	\$313,789

	Cases	Average Medicare Payment	Average Hospital Charge	
Washington				
CABG without Valve	21	\$33,074	\$82,771	
Valve without CABG	NR	NR	NR	
Valve with CABG	NR	NR	NR	
Total Valve	15	\$43,055	\$131,690	
Wilkes-Barre General				
CABG without Valve	81	\$28,511	\$116,049	
Valve without CABG	16	\$37,909	\$157,499	
Valve with CABG	18	\$38,678	\$171,428	
Total Valve	34	\$38,316	\$163,174	
Williamsport Regional				
CABG without Valve	14	\$29,267	\$102,247	
Valve without CABG	NR	NR	NR	
Valve with CABG	NR	NR	NR	
Total Valve	16	\$35,250	\$130,074	
York				
CABG without Valve	82	\$36,318	\$72,954	
Valve without CABG	46	\$42,523	\$81,790	
Valve with CABG	31	\$51,914	\$97,216	
Total Valve	77	\$46,303	\$89,412	





### Pennsylvania Health Care Cost Containment Council

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