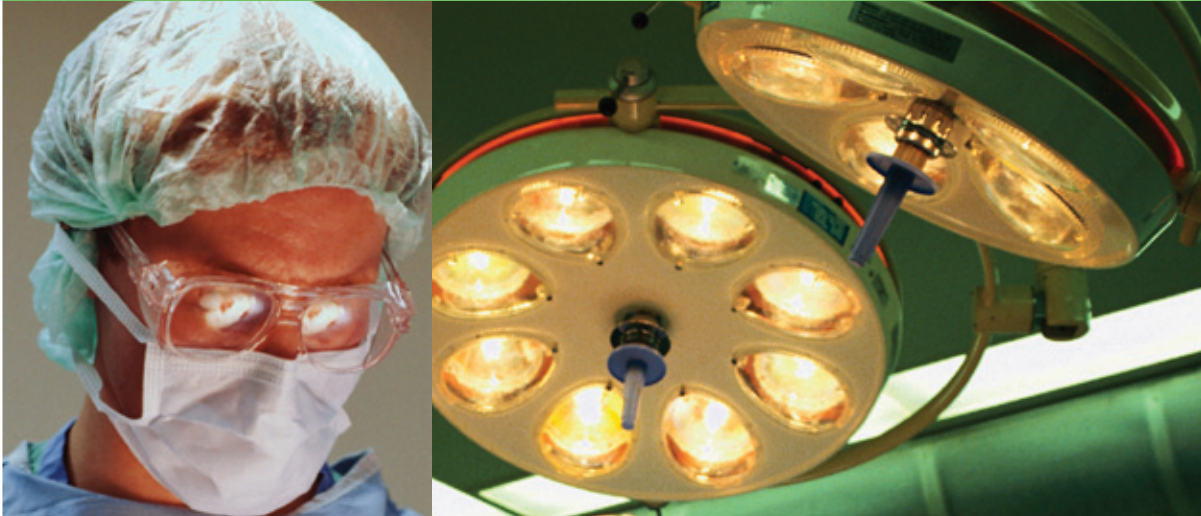


Cardiac Surgery in Pennsylvania 2008-2009

Information about Hospitals and Cardiothoracic Surgeons



Pennsylvania Health Care Cost Containment Council
May 2011



About PHC4

The Pennsylvania Health Care Cost Containment Council (PHC4) is an independent state agency established by Pennsylvania law (Act 89 of 1986, as amended). PHC4 is charged with collecting, analyzing and reporting information that can be used to improve the quality and restrain the cost of health care in Pennsylvania.

Table of Contents

Key Findings	1
Understanding this Report	10
Hospital Data	16
Surgeon Data	34

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



Introduction

This edition of PHC4's *Cardiac Surgery in Pennsylvania* report presents results of coronary artery bypass graft (CABG) surgeries and/or valve surgeries performed in 2008 and 2009 by the 60 Pennsylvania general acute care hospitals that perform these types of procedures. This 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 and 30-day mortality ratings, 7-day and 30-day readmission ratings, and post-surgical lengths of stay. Information on average hospital charges and average Medicare payments also are reported for hospitals.

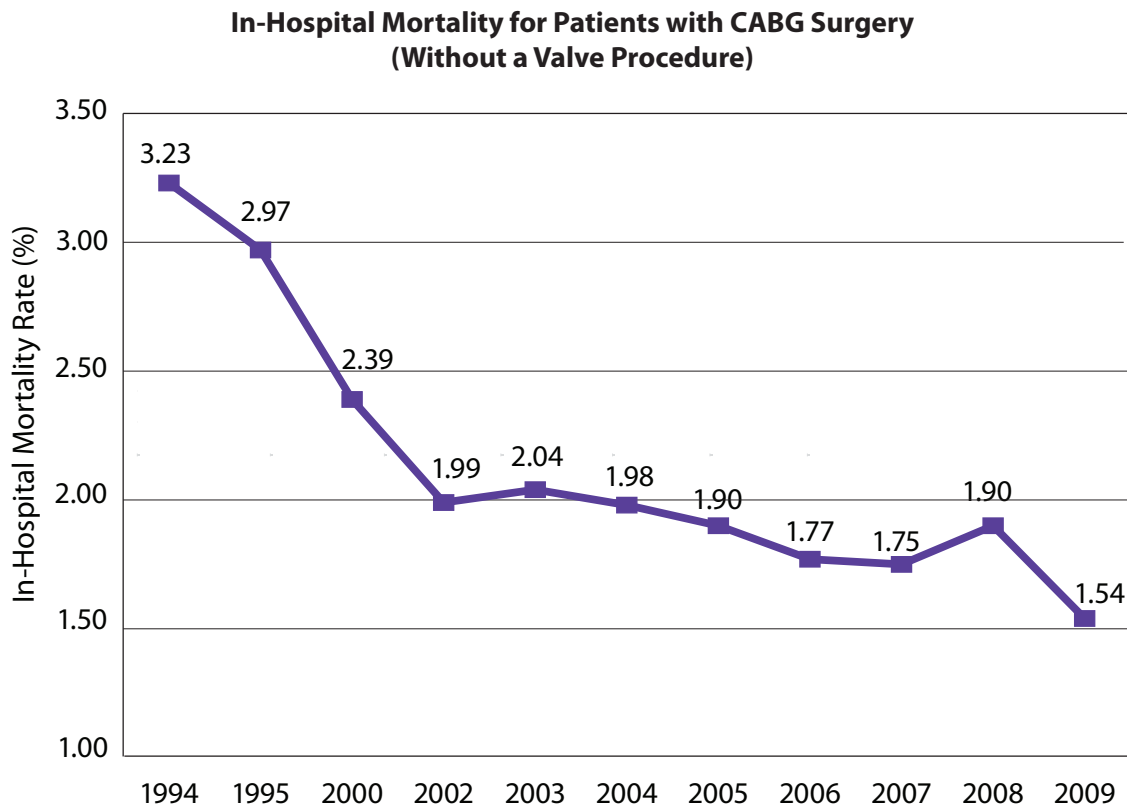
Key Findings

Highlights

- In-hospital mortality rates decreased 52.3 percent between 1994 and 2009 for patients who underwent CABG surgery without a valve procedure.
- For valve surgery patients, in-hospital mortality rates decreased 29.9 percent in the last five years, from 5.15 percent in 2005 to 3.61 percent in 2009.
- Readmissions within 30 days decreased 12.3 percent between 2008 and 2009, from 14.6 percent to 12.8 percent, for patients undergoing CABG surgery without a valve procedure.
- For valve surgery patients, readmissions within 30 days decreased from 19.2 percent to 19.0 percent between 2008 and 2009.
- Of the 15,325 patients who underwent CABG and/or valve surgery in 2009, 5.2 percent (792) contracted a healthcare-associated infection (HAI). The largest percent of HAIs were surgical site infections. Of the 792 patients who contracted an HAI, 291 (36.7 percent) contracted a surgical site infection.
- For Medicare fee-for-service patients, the average Medicare payment is estimated at \$63,986 for cardiac surgery patients who acquired an HAI and \$35,868 for cardiac surgery patients who did not acquire such an infection. Thus, the payment was 78.4 percent higher (\$28,118) when patients contracted an HAI.

Mortality – CABG Surgery

- Overall, in-hospital mortality rates have decreased 52.3 percent for patients undergoing CABG procedures (without a valve procedure), from 3.23 percent in 1994 to 1.54 percent in 2009—despite patients included in this study having more chronic diseases such as diabetes and obesity, and, as asserted more generally in the scientific literature, that today’s CABG patients have more complex coronary artery disease.

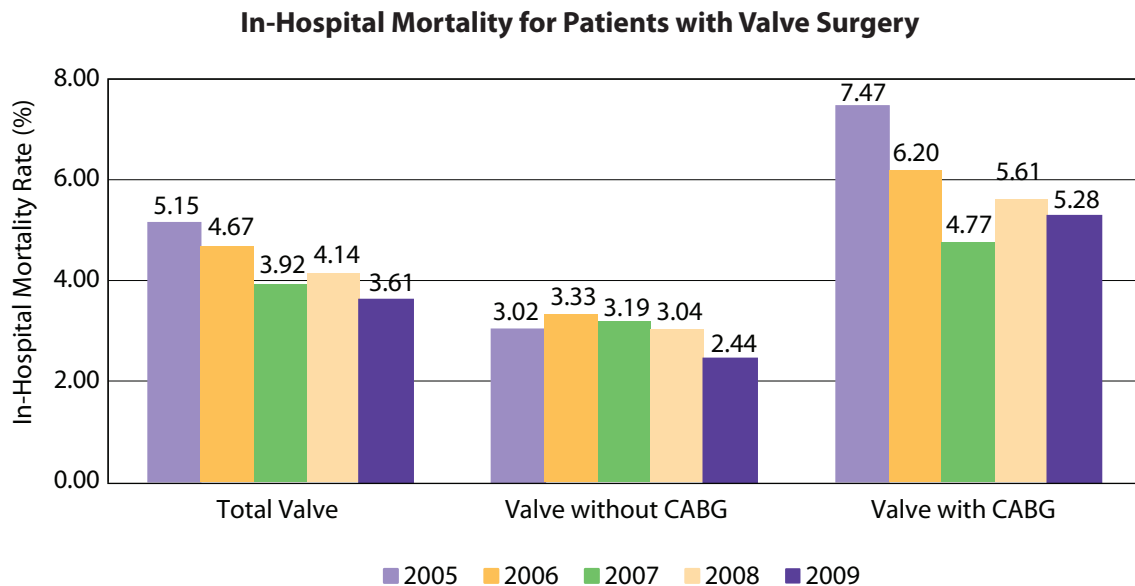


Note: This graph includes data, beginning with 1994, for each year that PHC4 published analysis for CABG procedures.

Key Findings

Mortality – Valve Surgery

- Overall, in-hospital mortality rates have declined for patients who underwent valve surgery either with or without CABG (i.e., the “total valve” reporting group), from 5.15 percent in 2005 when PHC4 began reporting on valve surgeries to 3.61 percent in 2009.
- For patients undergoing valve surgery without CABG surgery, the in-hospital mortality rate has declined each year since 2006, reaching a low of 2.44 percent in 2009.
- For patients undergoing valve surgery with CABG surgery, in-hospital mortality declined steadily between 2005 and 2007 with 2008 and 2009 showing higher rates than 2007. Overall, in-hospital mortality decreased 29.3 percent from 7.47 in 2005 to 5.28 in 2009.



Note: This graph includes data for each year that PHC4 published analysis for valve procedures.

Key Findings

Readmissions

- In 2009, 2,042 patients (15.1 percent) who underwent CABG and/or valve surgery were readmitted to the hospital within 30 days of discharge for a heart-related condition or an infection or a complication. These readmissions amounted to an additional 12,542 hospital days. The top reasons for both 7-day and 30-day readmissions for CABG and/or valve surgery were heart failure and infections.
- Patients who underwent valve with CABG surgery had the highest rate of readmission (21.8 percent), were more likely to die during the readmission (5.0 percent), and were more likely to stay in the hospital longer (7.2 days) when readmitted, as compared to patients who underwent valve without CABG surgery or CABG without valve surgery.

Readmissions, 2009

Reporting Group	Patients Readmitted within 30 Days		For patients readmitted within 30 days, the readmissions were associated with . . .					
			Mortality Percent	Average Length of Stay	Total Days	Average Hospital Charge ¹	Estimated Medicare Payment ²	
	Number	Percent					Average	Total
Total	2,042	15.1%	3.1%	6.1	12,542	\$ 48,203	\$ 9,310	\$ 7,377,161
CABG without Valve	1,117	12.8%	2.1%	5.7	6,402	\$ 47,338	\$ 8,552	\$ 3,446,323
Valve without CABG	486	17.1%	3.7%	6.1	2,980	\$ 44,713	\$ 9,507	\$ 1,853,930
Valve with CABG	439	21.8%	5.0%	7.2	3,160	\$ 54,269	\$ 10,651	\$ 2,076,908
Total Valve	925	19.0%	4.3%	6.6	6,140	\$ 49,248	\$ 10,100	\$ 3,930,838

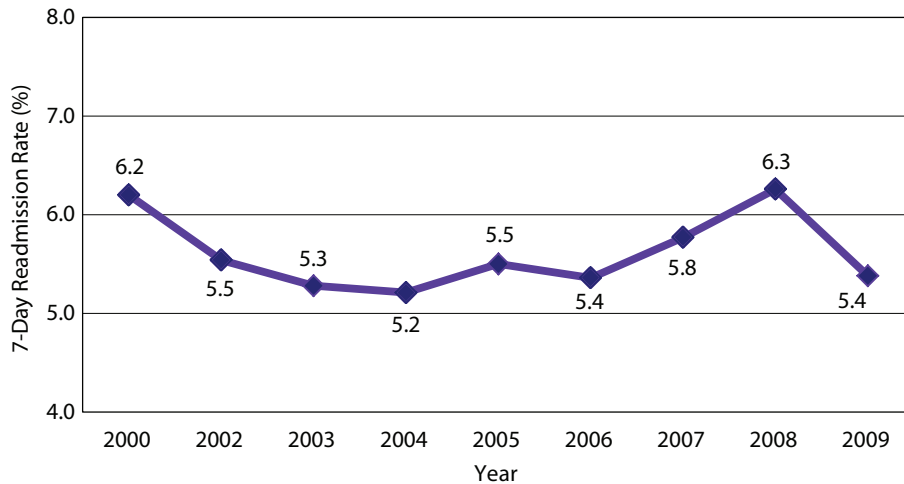
¹ In almost all cases, hospitals do not receive full reimbursement of charges; hospitals typically receive actual payments that are considerably less than the listed charge.

² The estimated Medicare payments were calculated by applying the 2008 fee-for-service Medicare payment data (the most recent data available to PHC4) to the fee-for-service Medicare patients who underwent a CABG and/or valve procedure in 2009 and were readmitted within 30 days.

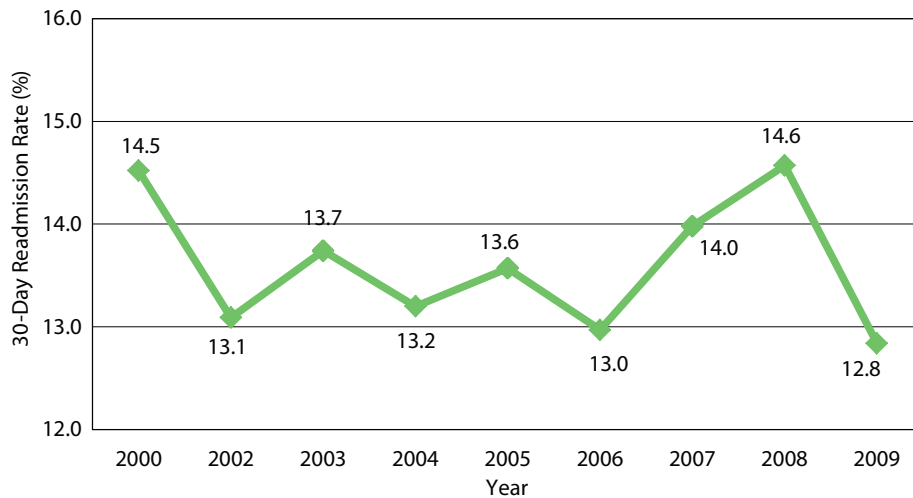
Readmissions – CABG Surgery

- While readmission rates for CABG surgery (without a valve procedure) fluctuated since 2000 when PHC4 first began reporting readmissions for these procedures, both 7-day and 30-day readmission rates declined between 2008 and 2009: 7-day readmissions decreased by 14.3 percent, from 6.3 percent to 5.4 percent, and 30-day readmissions decreased by 12.3 percent, from 14.6 percent to 12.8 percent.

**7-Day Readmissions for Patients with CABG Surgery
(Without a Valve Procedure)**



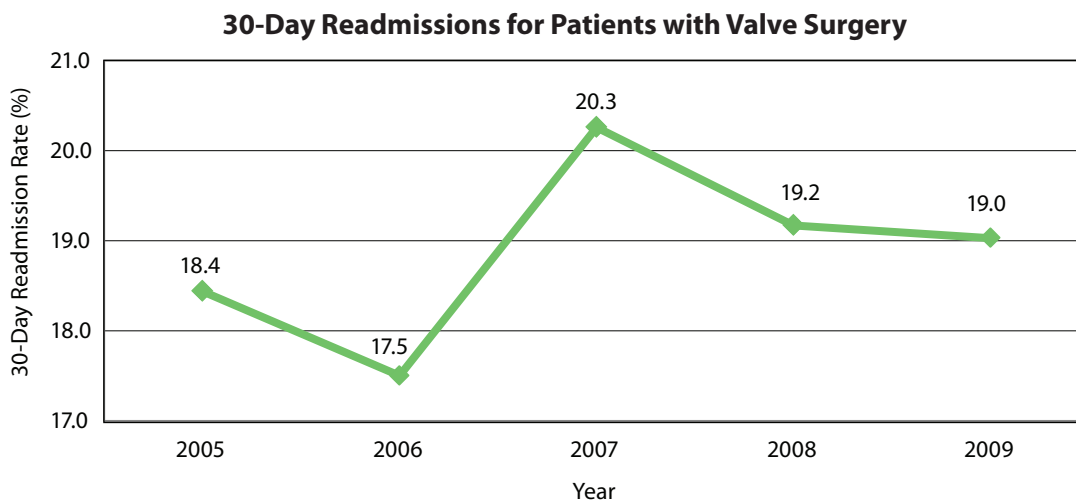
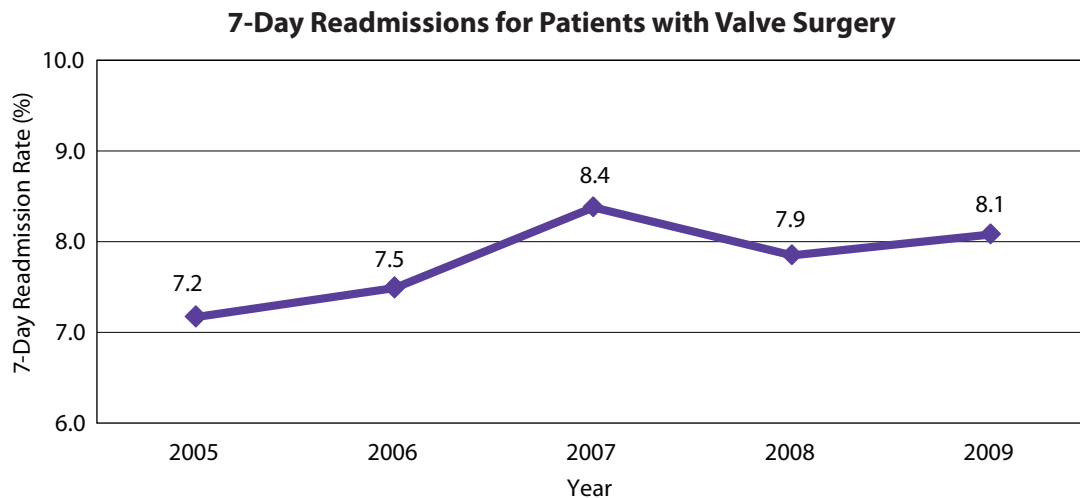
**30-Day Readmissions for Patients with CABG Surgery
(Without a Valve Procedure)**



Note: The graphs above include data for each year that PHC4 published readmission rates for CABG procedures.

Readmissions – Valve Surgery

- Readmission rates for patients who underwent valve surgery (with or without CABG) have fluctuated since PHC4 began reporting on valve surgeries in 2005. Between 2008 and 2009, 7-day readmissions increased from 7.9 percent to 8.1 percent, and 30-day readmissions decreased from 19.2 percent to 19.0 percent.



Note: The graphs above include data for each year that PHC4 published analysis for valve procedures.

Key Findings

Medicare Payments

- The average Medicare payments for patients undergoing CABG and/or valve surgeries for 2005, 2006, 2007, and 2008 have been similar over time.

Average Medicare Payment*

Reporting Group	2005	2006	2007	2008
CABG without Valve	\$29,175	\$29,697	\$30,448	\$30,546
Valve without CABG	\$42,433	\$41,448	\$43,801	\$47,346
Valve with CABG	\$44,119	\$44,934	\$46,001	\$47,669
Total Valve	\$43,343	\$43,276	\$44,945	\$47,500

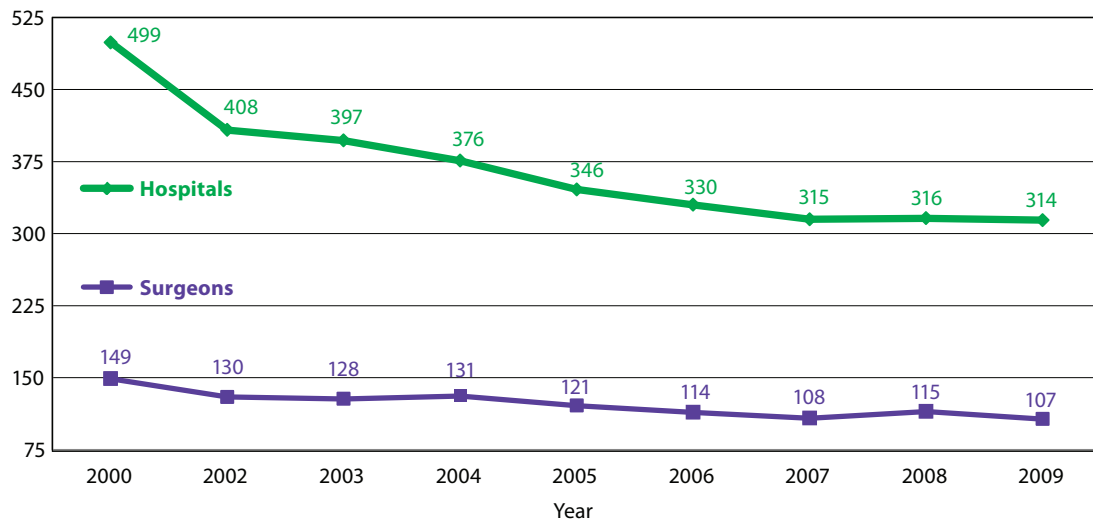
* Includes the Centers for Medicare and Medicaid Services' Medicare Part A hospital insurance fund payment (fee-for-service), but not patient liabilities, such as coinsurance and deductibles.

Note: 2008 Medicare payment data is the most recent available to PHC4 for use in this report.

Volume for Open Heart Surgery

- Overall, the average number of open heart procedures performed annually by hospitals decreased 37.1 percent from 499 cases in 2000 to 314 cases in 2009. The average number of open heart procedures performed by cardiothoracic surgeons decreased 28.2 percent from 149 cases in 2000 to 107 cases in 2009.

Average Number of Open Heart Procedures Performed Annually



Note: This table includes data, beginning with 2000, for each year that PHC4 published total open heart volumes.

Key Findings

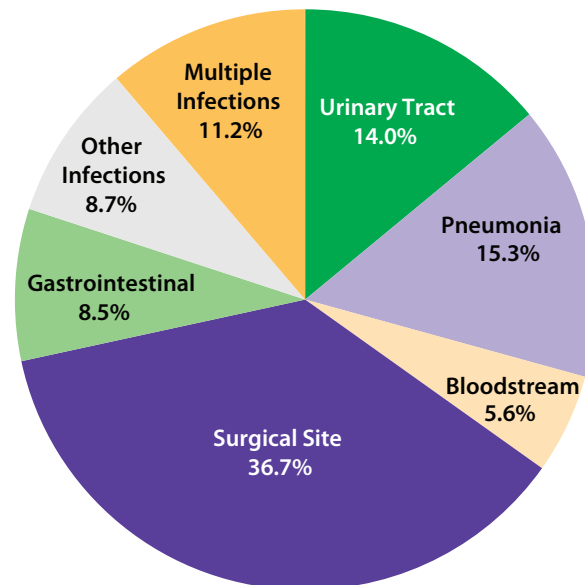
Healthcare-Associated Infections

Reducing healthcare-associated infections (HAIs) is an important focus of quality improvement initiatives. The information below provides a statewide snapshot of patients who contracted at least one HAI during their hospital stay for cardiac surgery in 2009. HAIs are not detailed at the individual hospital or surgeon level in this report.

- Of the 15,325 patients who underwent CABG and/or valve surgery in 2009, hospitals reported that 792 (5.2 percent) contracted an HAI.
- The largest percent of HAIs were surgical site infections. Of the 792 patients who contracted an HAI, 291 (36.7 percent) contracted a surgical site infection. Of the 291 patients who contracted a surgical site infection, 18.9 percent were identified during the hospitalization in which the procedure was performed and 81.1 percent were identified during post-discharge surveillance, that is, a readmission to the same or a different hospital, a follow-up visit to a physician office, or a surgeon survey via mail or phone.

792 Patients with an HAI - 5.2% of 2009 Cardiac Surgery Patients

Distribution of HAIs Across Infection Types



Key Findings

Outcomes for patients who did and those who did not contract an infection during their hospital stay are displayed in the table below. It is important to note that the outcomes reported for patients with an HAI may not have been related to the infection. Some of the differences in outcomes between patients with and without an HAI may have been influenced by other factors, including the complex medical needs of the patient that necessitated cardiac surgery.

- The in-hospital and 30-day mortality rates for CABG and/or valve surgery patients who acquired an infection were 9.0 percent and 10.7 percent, respectively. For patients who did not acquire an infection, the in-hospital and 30-day mortality rates were 2.0 percent and 2.5 percent, respectively.
- Of the patients who acquired an infection during the hospitalization in which their CABG and/or valve surgery was performed, 41.8 percent were readmitted for a heart-related condition or an infection or a complication within 30 days. For the patients who did not acquire an infection during their hospitalization, 13.7 percent were readmitted within 30 days.

Outcomes for Patients with and without HAIs, 2009

	Mortality Percent		Readmissions Percent		Average Post-Surgical Length of Stay	Average Hospital Charge ¹	Estimated Average Medicare Payment ²
	In-Hospital	30-Day	7-Day	30-Day			
All Cardiac Surgery Patients							
<i>With an HAI</i>	9.0%	10.7%	14.9%	41.8%	18.0	\$338,179	\$63,986
<i>Without an HAI</i>	2.0%	2.5%	5.9%	13.7%	7.2	\$154,548	\$35,868
CABG without Valve Patients							
<i>With an HAI</i>	6.2%	7.5%	14.3%	43.6%	15.2	\$268,231	\$47,623
<i>Without an HAI</i>	1.3%	1.8%	5.0%	11.4%	6.5	\$137,367	\$29,677
Total Valve Patients							
<i>With an HAI</i>	12.8%	15.1%	16.0%	38.9%	21.9	\$432,619	\$76,922
<i>Without an HAI</i>	3.0%	3.8%	7.6%	17.9%	8.4	\$183,631	\$44,776

¹ In almost all cases, hospitals do not receive full reimbursement of charges; hospitals typically receive actual payments that are considerably less than the listed charge.

² The estimated average Medicare payments were calculated by applying the 2008 fee-for-service Medicare payment data (the most recent data available to PHC4) to the fee-for-service Medicare patients who underwent a CABG and/or valve procedure in 2009 with and without an HAI.



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 a surgical procedure used to replace or repair one or more of a patient's heart valves. Valve surgery is used to treat patients with congenital (present at birth) heart disease, degenerative (age-related "wear and tear") disease and conditions such as rheumatic heart disease. In valve replacement surgery, the diseased valve is removed and replaced with an artificial (mechanical) valve or a biological valve harvested 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 and costly surgeries. This report includes information on approximately 31,000 CABG and/or valve surgeries performed in Pennsylvania general acute care hospitals in 2008 and 2009.

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.

What is measured in this report and why are these measures important?

Outcome measures for this report were chosen because they are important components in examining quality of care. Further, they can be reliably measured and compared across hospitals. This report includes information on the number of surgeries performed, in-hospital and 30-day mortality rates, readmission rates within 7 and 30 days, and data on post-surgical lengths of stay for both hospitals and surgeons, as well as average hospital charges and average Medicare payments for hospitals only. The reporting groups are divided as follows:

- **CABG without Valve** comprises patients who had at least one CABG procedure without any valve procedures during the same admission.



- **Valve without CABG** comprises patients who had at least one valve procedure without any CABG procedures during the same admission.
- **Valve with CABG** comprises patients who had at least one valve procedure and at least one CABG procedure during the same admission.
- **Total Valve** comprises patients who had at least one valve procedure with or without a CABG procedure during the same admission.


Number of cases is reported for all hospitals and surgeons. Information on CABG/valve results is reported for the hospitals and surgeons who performed 30 or more procedures on adults in at least one of the four reporting groups in 2008 and 2009. Surgeon outcomes are based on two years of combined data, 2008 and 2009. The resulting increase in volume of cases per surgeon results in a more robust analysis. Hospital outcomes are reported for the combined 2008 and 2009 data and for 2009 data only. Average hospital charge and average Medicare payment are reported for hospitals that had at least 13 cases in a particular reporting group.

Number of cases – This is the number of surgeries analyzed in this report. The cases are divided into four reporting groups: CABG without valve, valve without CABG, valve with CABG and total valve. It is important to note, however, 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.

In-hospital mortality – This measure represents the number of patients who died during the hospital stay in which the CABG/valve surgery was performed.

30-day mortality – This measure represents the number of patients who either 1) died during the hospitalization in which the CABG/valve surgery was performed, even if it was after 30 days, or 2) died after discharge, but within 30 days of the procedure. The data used for this analysis does not clearly characterize whether a patient’s death within 30 days was related to the CABG/valve surgery, so there may be deaths included in the analysis that were unrelated to the surgery. Deaths clearly caused by unusual circumstances, such as those related to motor vehicle accidents or suicides, were excluded.

7-day and 30-day hospital readmissions – These measures examine how often patients were readmitted to a Pennsylvania general acute care hospital within 7 days or 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 that was likely related to the



CABG/valve surgery hospitalization. Readmissions for other reasons were not included in the analysis. Readmission rates are important from both a quality of care and cost standpoint.


Information on both 7-day and 30-day readmissions is reported because the reasons for readmission may vary across these time periods. Seven-day readmissions account for those readmissions that are closer in time to the initial hospitalization and may be more directly related to the CABG/valve surgery hospitalization. At the same time, some complications may occur after the first 7 days; therefore, including 30-day readmission rates provides a more complete picture.

Post-surgical length of stay – This measure represents how long a patient stayed in the hospital after undergoing CABG/valve surgery and is reported in average days. The average reported is the geometric mean. (Geometric means are the result of the natural log transformation that was done to adjust for skewness in the distribution. See the Technical Notes for a more detailed explanation of geometric means.) While complications following surgery were not examined for this report, other analysis has shown that complications following CABG/valve surgery add to the length of time a patient stays in the hospital.

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. Where hospital charges are concerned, 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 reported is for the entire length of stay. A hospital's cost for the stay is an amount that is different from the charge and the payment.

Average Medicare payment – This is the average amount a hospital is paid for a Medicare patient in the fee-for-service system. Payments from Medicare Advantage plans (Medicare HMOs) are not included. Again, the amount paid will be different from the charge.

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 reporting group and dividing the sum by the number of cases in that reporting 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. PHC4 is reporting average Medicare payments for 2008 cardiac cases only because 2008 payment data is the most recent available for use in this report.

Medicare payments are based on the entire hospital stay, and the payment principles are common to all hospitals nationwide. Commercial payers, on the other hand, typically negotiate one-by-one with each hospital, and commercial payments can vary by health plan type (e.g., HMO, PPO, etc.). Commercial contracts may vary in the basis for payment, such as a payment for each day rather than for the entire stay, payments that include hospital and physician fees together, or a lump sum payment for a number of patients.

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 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.



Where does the data come from?

Most of the data used for this report was submitted to PHC4 by general acute care hospitals that perform CABG/valve surgery. It encompasses inpatient hospital discharges from January 1, 2008 to December 31, 2009 in which the patient underwent CABG/valve surgery. The data submitted to PHC4 by the hospitals was subject to verification for accuracy by the hospitals, surgeons and PHC4. The ultimate responsibility for data accuracy and completeness lies with each individual hospital.

Some data elements used in the report were obtained from additional sources. The Pennsylvania Department of Health provided data used to analyze the 30-day mortality measure. The Centers for Medicare and Medicaid Services provided Medicare payment data.

Accounting for high-risk patients

Some patients who undergo CABG/valve surgery are more seriously ill than others. Hospitals provided data on “how sick the patient was on admission.” This information is used to make sure that differences in the illness level of patients are accounted for when reporting information on CABG/valve surgery.

In order to report fair comparisons among hospitals and surgeons, PHC4 developed a complex mathematical formula to “risk adjust” the data, meaning that hospitals and surgeons receive “extra credit” for operating on patients that 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 following CABG/valve surgery, stay in the hospital longer, or be readmitted. A comprehensive description of how these adjustments are made can be found in the Technical Notes document that accompanies this report. It can be found on PHC4’s website at www.phc4.org.

What do the symbols mean?

The symbols in this report represent the results of how well hospitals and surgeons performed surgery and cared for the patient. A statistical test is done to determine whether differences in the results are simply due to chance or random variation. A difference is called “statistically significant” when there is 95 percent confidence that the difference is not likely to result from chance or random variation. Using in-hospital mortality as an example:

- lower than expected (meaning that the hospital or surgeon had significantly fewer deaths than expected after accounting for how sick the patients were)
- ◉ same as expected (meaning that the hospital or surgeon had as many deaths as expected — that is, not significantly different — after accounting for how sick the patients were)
- higher than expected (meaning that the hospital or surgeon had significantly more deaths than expected after accounting for how sick the patients were)

Acknowledgements

PHC4 wishes to acknowledge and thank the Pennsylvania hospitals and surgeons who participated in the data submission and verification processes used for this report.

PHC4 thanks the Centers for Medicare and Medicaid Services for the Medicare payment data. PHC4 also thanks the Bureau of Health Statistics and Research, Pennsylvania Department of Health, for providing information used in the 30-day mortality measure. The Pennsylvania Department of Health specifically disclaims responsibility for any analyses, interpretations or conclusions.

TABLE NOTES

For Hospital and Surgeon Data - 30-day mortality includes in-hospital mortality. The mortality, readmission, and length of stay figures account for varying illness levels among patients. Length of stay is the average number of days spent in the hospital following CABG/valve surgery.

For Hospital Data Only - Average hospital charge and average Medicare payment are for the entire length of stay. Average charge was trimmed and case-mix adjusted. Note that 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. The average Medicare payment only includes cases with a Medicare fee-for-service payment considered valid. Average Medicare payment was not trimmed or adjusted. Average Medicare payment for hospitals with less than 13 cases was suppressed to meet current Centers for Medicare and Medicaid Services privacy guidelines. Hospitals had an opportunity to verify the average Medicare payments reported for their facilities prior to the public release of the information.

For Surgeon Data Only - The actual number of CABG/valve surgeries performed does not include cases excluded for clinical complexity and procedures done in Veterans' hospitals and in other states. Total volume figures on all open heart surgeries (including CABG/valve) performed in Pennsylvania hospitals are available on PHC4's website.

More Data on PHC4's Website



Additional information is posted at www.phc4.org/reports/cabg/09/


- Numbers associated with the outcome figures and symbols
- Technical Notes
- Hospital and surgeon comments

Scan this Quick Response Code with your smartphone (using a QR code reader app) to access this information.





Hospital Data


	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
Statewide										
CABG without Valve	10,099	9,591	19,690	1.7%	2.2%	5.8%	13.7%	5.9	\$124,093	\$30,546
Valve without CABG	3,162	3,365	6,527	2.7%	3.0%	7.1%	17.4%	7.2	\$159,549	\$47,346
Valve with CABG	2,370	2,369	4,739	5.4%	6.5%	9.2%	21.4%	8.5	\$179,349	\$47,669
Total Valve	5,532	5,734	11,266	3.9%	4.5%	8.0%	19.1%	7.7	\$167,789	\$47,500
Abington Memorial										
CABG without Valve	111	142	253	⊖	⊖	⊕	●	6.6	\$206,525	\$34,603
Valve without CABG	98	80	178	●	●	⊖	⊖	8.6	\$213,839	NR
Valve with CABG	28	15	43	⊖	⊖	⊖	⊖	8.9	\$259,603	NR
Total Valve	126	95	221	●	●	⊖	⊖	8.9	\$225,901	\$54,926
Albert Einstein										
CABG without Valve	68	66	134	⊖	⊖	⊖	⊖	6.0	\$221,462	\$47,012
Valve without CABG	17	11	28	NR	NR	NR	NR	NR	\$265,073	NR
Valve with CABG	9	13	22	NR	NR	NR	NR	NR	\$267,337	NR
Total Valve	26	24	50	⊖	⊖	⊖	⊖	8.5	\$261,449	NR
Allegheny General 										
CABG without Valve	245	219	464	⊖	⊖	⊖	⊖	6.5	\$99,336	\$33,635
Valve without CABG	142	130	272	⊖	⊖	⊖	⊖	7.7	\$120,392	\$56,722
Valve with CABG	57	69	126	⊖	⊖	⊖	⊖	9.5	\$141,628	\$51,818
Total Valve	199	199	398	⊖	⊖	⊖	⊖	8.4	\$131,556	\$54,892
Altoona Regional										
CABG without Valve	122	116	238	⊖	⊖	●	⊖	5.6	\$75,398	\$29,013
Valve without CABG	41	59	100	⊖	⊖	⊖	⊖	7.7	\$108,140	NR
Valve with CABG	31	50	81	⊖	⊖	⊖	⊖	8.1	\$105,895	NR
Total Valve	72	109	181	⊖	⊖	⊖	⊖	7.8	\$107,194	\$41,080
Aria Health 										
CABG without Valve	202	183	385	●	●	⊖	⊖	7.2	\$102,689	\$35,090
Valve without CABG	14	15	29	NR	NR	NR	NR	NR	\$120,329	NR
Valve with CABG	36	30	66	⊖	⊖	●	⊖	11.7	\$129,379	NR
Total Valve	50	45	95	⊖	⊖	●	●	10.2	\$121,017	\$44,562
Brandywine										
CABG without Valve	41	47	88	⊖	⊖	●	●	6.3	\$225,111	NR
Valve without CABG	3	6	9	NR	NR	NR	NR	NR	NR	NR
Valve with CABG	8	3	11	NR	NR	NR	NR	NR	NR	NR
Total Valve	11	9	20	NR	NR	NR	NR	NR	\$284,530	NR

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

 Lower than expected
  Same as expected
  Higher than expected
 NR - Not rated (too few cases)


Hospital Data


	Number of Cases 2009	Hospital Data 2009					
		Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge
		In-Hospital	30-Day	7-Day	30-Day		
Statewide							
CABG without Valve	9,591	1.5%	2.1%	5.4%	12.8%	5.9	\$128,593
Valve without CABG	3,365	2.4%	2.8%	7.2%	17.1%	7.2	\$164,043
Valve with CABG	2,369	5.3%	6.4%	9.3%	21.8%	8.5	\$182,896
Total Valve	5,734	3.6%	4.3%	8.1%	19.0%	7.7	\$171,744
Abington Memorial							
CABG without Valve	142	●	○	○	●	6.4	\$203,295
Valve without CABG	80	○	○	○	○	9.0	\$226,138
Valve with CABG	15	NR	NR	NR	NR	NR	\$249,125
Total Valve	95	○	○	○	○	9.1	\$235,539
Albert Einstein							
CABG without Valve	66	○	○	○	○	5.9	\$219,157
Valve without CABG	11	NR	NR	NR	NR	NR	NR
Valve with CABG	13	NR	NR	NR	NR	NR	\$273,677
Total Valve	24	NR	NR	NR	NR	NR	\$280,680
Allegheny General 							
CABG without Valve	219	○	○	○	○	6.3	\$101,720
Valve without CABG	130	○	○	○	○	7.2	\$123,030
Valve with CABG	69	○	○	○	○	9.2	\$150,600
Total Valve	199	○	○	○	○	7.9	\$136,175
Altoona Regional							
CABG without Valve	116	○	○	○	○	5.4	\$76,316
Valve without CABG	59	○	○	●	○	7.5	\$111,758
Valve with CABG	50	○	○	○	○	7.6	\$105,631
Total Valve	109	○	○	○	○	7.5	\$108,678
Aria Health 							
CABG without Valve	183	●	●	○	○	7.3	\$104,665
Valve without CABG	15	NR	NR	NR	NR	NR	\$120,571
Valve with CABG	30	○	○	NR	NR	NR	\$116,561
Total Valve	45	○	○	●	●	10.3	\$114,654
Brandywine							
CABG without Valve	47	○	○	●	○	6.3	\$219,211
Valve without CABG	6	NR	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR	NR
Total Valve	9	NR	NR	NR	NR	NR	NR

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

○ Lower than expected ○ Same as expected ● Higher than expected NR - Not rated (too few cases)


Hospital Data


	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
Butler Memorial										
CABG without Valve	200	206	406	⊖	⊖	⊖	⊖	6.3	\$62,936	\$28,116
Valve without CABG	40	44	84	⊖	⊖	⊖	⊖	8.2	\$85,791	NR
Valve with CABG	44	52	96	⊖	⊖	⊖	⊖	9.3	\$93,587	NR
Total Valve	84	96	180	⊖	⊖	⊖	⊖	8.6	\$88,953	\$45,255
Chester County										
CABG without Valve	98	70	168	⊖	⊖	⊖	⊖	6.2	\$107,018	\$25,688
Valve without CABG	39	15	54	⊖	⊖	⊖	⊖	7.5	\$119,968	NR
Valve with CABG	14	12	26	NR	NR	NR	NR	NR	\$179,354	NR
Total Valve	53	27	80	●	⊖	⊖	⊖	8.1	\$139,629	\$38,980
Community/Scranton 										
CABG without Valve	167	165	332	⊖	⊖	⊖	⊖	5.5	\$67,829	\$26,436
Valve without CABG	25	32	57	⊖	⊖	⊖	⊖	6.6	\$96,928	NR
Valve with CABG	25	28	53	⊖	⊖	⊖	⊖	8.1	\$126,300	NR
Total Valve	50	60	110	⊖	⊖	⊖	⊖	7.2	\$109,086	\$40,442
Conemaugh Valley Memorial										
CABG without Valve	155	141	296	⊖	⊖	⊖	⊖	5.2	\$64,035	\$29,168
Valve without CABG	52	61	113	⊖	⊖	⊖	⊖	6.1	\$85,986	\$43,783
Valve with CABG	48	42	90	⊖	⊖	⊖	⊖	6.3	\$102,862	\$38,626
Total Valve	100	103	203	⊖	⊖	⊖	⊖	6.2	\$93,469	\$40,716
Crozer-Chester										
CABG without Valve	113	114	227	⊖	⊖	⊖	⊖	6.3	\$361,223	\$38,801
Valve without CABG	16	14	30	⊖	NR	NR	NR	7.1	\$383,960	NR
Valve with CABG	5	15	20	NR	NR	NR	NR	NR	\$412,723	NR
Total Valve	21	29	50	⊖	⊖	⊖	⊖	8.3	\$393,380	NR
Doylestown										
CABG without Valve	120	100	220	⊖	⊖	⊖	⊖	5.1	\$112,302	\$24,790
Valve without CABG	43	66	109	⊖	⊖	⊖	⊖	5.8	\$109,834	\$31,749
Valve with CABG	38	42	80	⊖	⊖	⊖	⊖	6.4	\$135,360	\$37,690
Total Valve	81	108	189	⊖	⊖	⊖	⊖	6.0	\$119,203	\$34,815
DuBois Regional										
CABG without Valve	121	118	239	⊖	●	⊖	⊖	5.6	\$83,432	\$31,376
Valve without CABG	19	19	38	⊖	⊖	⊖	⊖	6.7	\$96,274	NR
Valve with CABG	36	25	61	⊖	⊖	⊖	⊖	7.8	\$130,905	NR
Total Valve	55	44	99	⊖	⊖	⊖	⊖	7.1	\$115,261	\$40,759

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

 Lower than expected
  Same as expected
  Higher than expected
 NR - Not rated (too few cases)


Hospital Data


	Number of Cases 2009	Hospital Data 2009					
		Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge
		In-Hospital	30-Day	7-Day	30-Day		
Butler Memorial							
CABG without Valve	206	⊙	⊙	⊙	⊙	6.5	\$68,770
Valve without CABG	44	⊙	⊙	⊙	⊙	8.5	\$85,332
Valve with CABG	52	⊙	⊙	⊙	⊙	8.8	\$95,090
Total Valve	96	⊙	⊙	⊙	⊙	8.5	\$89,254
Chester County							
CABG without Valve	70	⊙	⊙	⊙	⊙	6.5	\$119,370
Valve without CABG	15	NR	NR	NR	NR	NR	\$142,071
Valve with CABG	12	NR	NR	NR	NR	NR	NR
Total Valve	27	NR	NR	NR	NR	NR	\$165,615
Community/Scranton 							
CABG without Valve	165	⊙	⊙	⊙	⊙	5.5	\$72,098
Valve without CABG	32	⊙	⊙	⊙	⊙	6.8	\$102,571
Valve with CABG	28	NR	NR	NR	NR	NR	\$142,638
Total Valve	60	⊙	⊙	⊙	⊙	7.3	\$118,299
Conemaugh Valley Memorial							
CABG without Valve	141	⊙	⊙	⊙	⊙	5.0	\$66,353
Valve without CABG	61	⊙	⊙	⊙	⊙	5.8	\$82,869
Valve with CABG	42	⊙	⊙	⊙	⊙	6.1	\$104,319
Total Valve	103	⊙	⊙	⊙	⊙	5.9	\$91,790
Crozer-Chester							
CABG without Valve	114	⊙	⊙	⊙	⊙	6.6	\$380,994
Valve without CABG	14	NR	NR	NR	NR	NR	\$416,688
Valve with CABG	15	NR	NR	NR	NR	NR	NR
Total Valve	29	NR	NR	NR	NR	NR	\$415,696
Doylestown							
CABG without Valve	100	⊙	⊙	⊙	⊙	5.2	\$115,314
Valve without CABG	66	⊙	⊙	⊙	⊙	6.0	\$107,028
Valve with CABG	42	⊙	⊙	⊙	⊙	6.5	\$139,487
Total Valve	108	⊙	⊙	⊙	⊙	6.2	\$118,295
DuBois Regional							
CABG without Valve	118	●	●	⊙	⊙	5.5	\$83,905
Valve without CABG	19	NR	NR	NR	NR	NR	\$92,402
Valve with CABG	25	NR	NR	NR	NR	NR	\$116,356
Total Valve	44	⊙	⊙	⊙	⊙	6.7	\$105,213

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)


Hospital Data


	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
Easton										
CABG without Valve	78	97	175	⊙	⊙	⊙	⊙	6.4	\$294,712	\$45,069
Valve without CABG	14	16	30	⊙	NR	NR	NR	NR	\$312,255	NR
Valve with CABG	21	19	40	⊙	NR	NR	NR	9.0	\$377,724	NR
Total Valve	35	35	70	⊙	⊙	⊙	⊙	8.4	\$336,127	\$70,871
Excela Hlth Westmoreland										
CABG without Valve	320	260	580	⊙	⊙	⊙	⊙	6.9	\$53,419	\$24,687
Valve without CABG	33	32	65	⊙	⊙	⊙	⊙	7.2	\$55,547	NR
Valve with CABG	67	56	123	⊙	⊙	⊙	⊙	9.6	\$77,108	NR
Total Valve	100	88	188	⊙	⊙	⊙	⊙	8.4	\$67,003	\$39,496
Geisinger Wyoming Valley										
CABG without Valve	93	89	182	⊙	⊙	⊙	⊙	5.2	\$109,357	\$25,169
Valve without CABG	43	32	75	⊙	⊙	⊙	⊙	5.9	\$129,160	NR
Valve with CABG	21	15	36	⊙	⊙	⊙	⊙	7.9	\$167,932	NR
Total Valve	64	47	111	⊙	⊙	⊙	⊙	6.6	\$144,479	\$42,267
Geisinger/Danville										
CABG without Valve	185	170	355	⊙	⊙	⊙	⊙	5.8	\$119,958	\$33,420
Valve without CABG	112	111	223	⊙	⊙	⊙	⊙	9.0	\$178,604	\$48,392
Valve with CABG	55	46	101	⊙	⊙	⊙	⊙	9.5	\$200,423	\$50,620
Total Valve	167	157	324	⊙	⊙	⊙	⊙	9.3	\$185,593	\$49,202
Good Samaritan/Lebanon 										
CABG without Valve	143	120	263	⊙	⊙	⊙	⊙	5.7	\$85,201	\$22,038
Valve without CABG	12	15	27	NR	NR	NR	NR	NR	\$100,485	NR
Valve with CABG	22	20	42	⊙	⊙	⊙	⊙	9.0	\$118,717	NR
Total Valve	34	35	69	●	●	⊙	●	7.8	\$108,075	\$44,454
Hahnemann University										
CABG without Valve	107	103	210	⊙	⊙	⊙	⊙	8.3	\$401,562	\$51,519
Valve without CABG	25	26	51	●	●	NR	NR	9.9	\$425,036	NR
Valve with CABG	24	10	34	⊙	NR	NR	NR	12.4	\$513,482	NR
Total Valve	49	36	85	●	●	⊙	⊙	10.9	\$455,615	\$78,736
Hamot										
CABG without Valve	283	301	584	⊙	⊙	⊙	⊙	5.4	\$143,504	\$24,138
Valve without CABG	59	60	119	⊙	⊙	⊙	⊙	7.2	\$157,689	\$32,227
Valve with CABG	47	47	94	⊙	⊙	⊙	⊙	7.6	\$189,522	\$38,015
Total Valve	106	107	213	⊙	⊙	⊙	⊙	7.3	\$174,639	\$34,867

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

 Lower than expected
  Same as expected
  Higher than expected
 NR - Not rated (too few cases)


Hospital Data


	Number of Cases 2009	Hospital Data 2009					
		Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge
		In-Hospital	30-Day	7-Day	30-Day		
Easton							
CABG without Valve	97	⊙	⊙	⊙	⊙	6.6	\$316,519
Valve without CABG	16	NR	NR	NR	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR	\$415,315
Total Valve	35	⊙	NR	NR	NR	8.5	\$373,334
Excela Hlth Westmoreland							
CABG without Valve	260	⊙	⊙	⊙	⊙	7.4	\$58,877
Valve without CABG	32	⊙	⊙	⊙	⊙	8.1	\$60,005
Valve with CABG	56	⊙	⊙	⊙	⊙	11.3	\$82,570
Total Valve	88	⊙	⊙	⊙	⊙	9.7	\$71,468
Geisinger Wyoming Valley							
CABG without Valve	89	⊙	⊙	⊙	⊙	5.1	\$110,865
Valve without CABG	32	●	●	NR	NR	NR	\$125,889
Valve with CABG	15	NR	NR	NR	NR	NR	\$175,613
Total Valve	47	⊙	●	⊙	⊙	7.2	\$143,872
Geisinger/Danville							
CABG without Valve	170	⊙	⊙	⊙	⊙	6.1	\$130,534
Valve without CABG	111	⊙	⊙	⊙	⊙	9.0	\$192,322
Valve with CABG	46	⊙	⊙	⊙	⊙	10.3	\$232,171
Total Valve	157	⊙	⊙	⊙	⊙	9.5	\$204,631
Good Samaritan/Lebanon 							
CABG without Valve	120	⊙	⊙	⊙	⊙	6.0	\$83,841
Valve without CABG	15	NR	NR	NR	NR	NR	\$104,993
Valve with CABG	20	NR	NR	NR	NR	NR	\$110,541
Total Valve	35	⊙	●	⊙	●	7.8	\$105,660
Hahnemann University							
CABG without Valve	103	⊙	⊙	⊙	⊙	7.8	\$408,172
Valve without CABG	26	NR	NR	NR	NR	NR	\$468,200
Valve with CABG	10	NR	NR	NR	NR	NR	NR
Total Valve	36	●	NR	NR	NR	10.9	\$478,921
Hamot							
CABG without Valve	301	⊙	⊙	⊙	⊙	5.3	\$148,487
Valve without CABG	60	⊙	⊙	⊙	⊙	7.3	\$158,259
Valve with CABG	47	⊙	⊙	●	⊙	8.2	\$190,728
Total Valve	107	⊙	⊙	⊙	⊙	7.7	\$176,363

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

 Lower than expected
  Same as expected
  Higher than expected
 NR - Not rated (too few cases)


Hospital Data


	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
Heritage Valley Beaver										
CABG without Valve	158	156	314	⊖	⊖	⊖	⊖	6.1	\$52,829	\$25,394
Valve without CABG	43	44	87	●	⊖	⊖	●	7.4	\$69,446	NR
Valve with CABG	36	36	72	⊖	⊖	⊖	⊖	9.5	\$85,925	NR
Total Valve	79	80	159	⊖	⊖	⊖	●	8.2	\$77,342	\$39,676
Holy Spirit										
CABG without Valve	200	189	389	⊖	⊖	●	⊖	5.5	\$79,406	\$24,598
Valve without CABG	52	43	95	⊖	⊖	⊖	⊖	6.9	\$96,866	\$31,070
Valve with CABG	32	49	81	⊖	⊖	⊖	⊖	7.5	\$110,342	\$31,644
Total Valve	84	92	176	⊖	⊖	⊖	⊖	7.1	\$102,802	\$31,344
Hospital University PA 										
CABG without Valve	169	180	349	⊖	⊖	⊖	⊖	7.2	\$219,390	\$46,828
Valve without CABG	314	357	671	⊖	●	⊖	⊖	7.8	\$236,031	\$69,306
Valve with CABG	136	125	261	⊖	⊖	⊖	⊖	9.7	\$296,595	\$74,397
Total Valve	450	482	932	⊖	⊖	⊖	⊖	8.5	\$254,566	\$70,929
Jeanes										
CABG without Valve	48	69	117	⊖	⊖	⊖	⊖	6.3	\$232,859	NR
Valve without CABG	8	18	26	NR	NR	NR	NR	NR	\$244,478	NR
Valve with CABG	11	7	18	NR	NR	NR	NR	NR	\$285,110	NR
Total Valve	19	25	44	⊖	⊖	⊖	⊖	8.2	\$258,459	NR
Jefferson Regional										
CABG without Valve	293	265	558	⊖	⊖	⊖	⊖	6.2	\$59,142	\$22,306
Valve without CABG	60	70	130	⊖	⊖	⊖	⊖	7.8	\$73,693	\$31,018
Valve with CABG	90	78	168	⊖	⊖	⊖	⊖	8.6	\$94,351	\$40,940
Total Valve	150	148	298	⊖	⊖	⊖	⊖	8.0	\$83,846	\$37,058
Lancaster General										
CABG without Valve	372	384	756	⊖	⊖	⊖	⊖	5.6	\$80,226	\$27,979
Valve without CABG	99	104	203	⊖	⊖	⊖	⊖	6.9	\$83,975	\$37,115
Valve with CABG	111	109	220	⊖	⊖	⊖	⊖	8.0	\$111,960	\$40,605
Total Valve	210	213	423	⊖	⊖	⊖	⊖	7.3	\$97,266	\$39,015
Lancaster Regional										
CABG without Valve	33	32	65	⊖	⊖	⊖	⊖	6.2	\$114,013	NR
Valve without CABG	7	6	13	NR	NR	NR	NR	NR	NR	NR
Valve with CABG	7	8	15	NR	NR	NR	NR	NR	NR	NR
Total Valve	14	14	28	NR	NR	NR	NR	NR	\$161,469	NR

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

⊖ Lower than expected
⊖ Same as expected
● Higher than expected
NR - Not rated (too few cases)


Hospital Data


	Number of Cases 2009	Hospital Data 2009					
		Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge
		In-Hospital	30-Day	7-Day	30-Day		
Heritage Valley Beaver							
CABG without Valve	156	⊙	⊙	⊙	⊙	6.2	\$51,756
Valve without CABG	44	⊙	⊙	⊙	⊙	7.2	\$62,805
Valve with CABG	36	⊙	⊙	⊙	⊙	9.1	\$81,497
Total Valve	80	⊙	⊙	⊙	⊙	7.9	\$71,495
Holy Spirit							
CABG without Valve	189	⊙	⊙	⊙	⊙	5.5	\$83,580
Valve without CABG	43	⊙	⊙	⊙	⊙	6.6	\$105,243
Valve with CABG	49	⊙	⊙	⊙	⊙	7.2	\$116,555
Total Valve	92	⊙	⊙	⊙	⊙	6.8	\$109,469
Hospital University PA 							
CABG without Valve	180	⊙	⊙	⊙	⊙	7.2	\$228,825
Valve without CABG	357	⊙	⊙	⊙	⊙	7.8	\$244,061
Valve with CABG	125	⊙	⊙	⊙	⊙	9.6	\$295,654
Total Valve	482	⊙	⊙	⊙	⊙	8.4	\$258,286
Jeanes							
CABG without Valve	69	●	●	⊙	●	6.3	\$242,515
Valve without CABG	18	NR	NR	NR	NR	NR	\$237,376
Valve with CABG	7	NR	NR	NR	NR	NR	NR
Total Valve	25	NR	NR	NR	NR	NR	\$259,679
Jefferson Regional							
CABG without Valve	265	⊙	⊙	⊙	⊙	6.5	\$61,278
Valve without CABG	70	⊙	⊙	⊙	⊙	8.6	\$82,795
Valve with CABG	78	⊙	⊙	⊙	⊙	8.9	\$100,817
Total Valve	148	⊙	⊙	⊙	⊙	8.6	\$91,166
Lancaster General							
CABG without Valve	384	⊙	⊙	⊙	⊙	5.8	\$85,060
Valve without CABG	104	⊙	⊙	⊙	⊙	6.8	\$86,872
Valve with CABG	109	⊙	⊙	⊙	⊙	8.2	\$115,030
Total Valve	213	⊙	⊙	⊙	⊙	7.3	\$100,214
Lancaster Regional							
CABG without Valve	32	⊙	⊙	⊙	⊙	6.1	\$119,557
Valve without CABG	6	NR	NR	NR	NR	NR	NR
Valve with CABG	8	NR	NR	NR	NR	NR	NR
Total Valve	14	NR	NR	NR	NR	NR	NR

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

 Lower than expected
  Same as expected
  Higher than expected
 NR - Not rated (too few cases)


Hospital Data


	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
Lehigh Valley										
CABG without Valve	357	363	720	○	○	⊙	⊙	4.8	\$126,444	\$29,669
Valve without CABG	155	158	313	○	⊙	⊙	⊙	5.8	\$159,050	\$38,267
Valve with CABG	90	76	166	⊙	⊙	●	⊙	6.2	\$195,370	\$40,524
Total Valve	245	234	479	○	○	⊙	⊙	6.0	\$174,363	\$39,189
Lehigh Valley/Muhlenberg										
CABG without Valve	73	93	166	⊙	⊙	⊙	○	4.5	\$131,328	\$25,507
Valve without CABG	31	22	53	⊙	⊙	⊙	⊙	5.7	\$158,009	NR
Valve with CABG	19	33	52	⊙	⊙	⊙	⊙	5.9	\$192,837	NR
Total Valve	50	55	105	⊙	⊙	⊙	●	5.7	\$171,990	\$38,009
Lower Bucks 										
CABG without Valve	50	34	84	●	●	⊙	●	6.5	\$211,501	NR
Valve without CABG	5	3	8	NR	NR	NR	NR	NR	NR	NR
Valve with CABG	3	5	8	NR	NR	NR	NR	NR	NR	NR
Total Valve	8	8	16	NR	NR	NR	NR	NR	\$309,959	NR
Main Line Bryn Mawr										
CABG without Valve	69	60	129	⊙	⊙	⊙	⊙	6.2	\$173,651	\$32,849
Valve without CABG	34	23	57	⊙	⊙	⊙	⊙	7.1	\$229,968	NR
Valve with CABG	13	8	21	NR	NR	NR	NR	NR	\$260,324	NR
Total Valve	47	31	78	⊙	⊙	⊙	⊙	7.6	\$239,797	\$54,363
Main Line Lankenau										
CABG without Valve	281	296	577	⊙	⊙	○	⊙	5.4	\$152,509	\$32,225
Valve without CABG	125	133	258	⊙	⊙	⊙	⊙	7.0	\$209,287	\$48,834
Valve with CABG	45	48	93	⊙	⊙	⊙	⊙	9.8	\$240,027	\$47,581
Total Valve	170	181	351	⊙	⊙	⊙	⊙	7.8	\$218,917	\$48,354
Main Line Paoli										
CABG without Valve	79	71	150	⊙	⊙	⊙	⊙	5.5	\$137,167	\$27,401
Valve without CABG	19	12	31	⊙	⊙	⊙	⊙	6.3	\$154,773	NR
Valve with CABG	6	10	16	NR	NR	NR	NR	NR	\$191,412	NR
Total Valve	25	22	47	⊙	⊙	⊙	⊙	7.0	\$167,556	NR
Mercy Fitzgerald										
CABG without Valve	48	76	124	⊙	⊙	●	●	6.5	\$230,328	NR
Valve without CABG	8	5	13	NR	NR	NR	NR	NR	\$200,536	NR
Valve with CABG	3	7	10	NR	NR	NR	NR	NR	NR	NR
Total Valve	11	12	23	NR	NR	NR	NR	NR	\$232,919	NR

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

○ Lower than expected ⊙ Same as expected ● Higher than expected NR - Not rated (too few cases)


Hospital Data


	Number of Cases 2009	Hospital Data 2009					
		Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge
		In-Hospital	30-Day	7-Day	30-Day		
Lehigh Valley							
CABG without Valve	363	○	○	○	○	4.8	\$132,777
Valve without CABG	158	○	○	○	○	6.1	\$172,940
Valve with CABG	76	○	○	○	○	6.3	\$204,899
Total Valve	234	○	○	○	○	6.2	\$186,890
Lehigh Valley/Muhlenberg							
CABG without Valve	93	○	○	○	○	4.6	\$137,940
Valve without CABG	22	NR	NR	NR	NR	NR	\$145,019
Valve with CABG	33	○	○	NR	NR	6.1	\$207,438
Total Valve	55	○	○	○	●	5.5	\$175,428
Lower Bucks 							
CABG without Valve	34	●	●	○	○	7.0	\$219,172
Valve without CABG	3	NR	NR	NR	NR	NR	NR
Valve with CABG	5	NR	NR	NR	NR	NR	NR
Total Valve	8	NR	NR	NR	NR	NR	NR
Main Line Bryn Mawr							
CABG without Valve	60	○	○	○	○	6.4	\$186,597
Valve without CABG	23	NR	NR	NR	NR	NR	\$212,182
Valve with CABG	8	NR	NR	NR	NR	NR	NR
Total Valve	31	○	○	○	○	7.5	\$214,235
Main Line Lankenau							
CABG without Valve	296	○	○	○	○	5.5	\$152,122
Valve without CABG	133	○	○	○	○	7.3	\$214,050
Valve with CABG	48	○	○	○	○	10.5	\$251,140
Total Valve	181	○	○	○	○	8.2	\$225,817
Main Line Paoli							
CABG without Valve	71	○	○	○	○	6.1	\$148,736
Valve without CABG	12	NR	NR	NR	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR	NR
Total Valve	22	NR	NR	NR	NR	NR	\$175,546
Mercy Fitzgerald							
CABG without Valve	76	○	○	●	●	6.3	\$239,690
Valve without CABG	5	NR	NR	NR	NR	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR	NR
Total Valve	12	NR	NR	NR	NR	NR	NR

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

○ Lower than expected ○ Same as expected ● Higher than expected NR - Not rated (too few cases)


Hospital Data


	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
Mercy/Scranton										
CABG without Valve	171	154	325	⊙	⊙	⊙	⊙	6.1	\$77,753	\$27,428
Valve without CABG	62	84	146	⊙	⊙	⊙	⊙	6.6	\$83,386	\$34,735
Valve with CABG	45	46	91	⊙	⊙	⊙	⊙	6.9	\$104,232	\$37,859
Total Valve	107	130	237	⊙	⊙	⊙	⊙	6.8	\$91,846	\$36,269
Milton S Hershey										
CABG without Valve	189	171	360	⊙	⊙	⊙	⊙	5.4	\$76,593	\$34,711
Valve without CABG	107	114	221	⊙	⊙	⊙	⊙	6.4	\$86,449	\$51,863
Valve with CABG	50	38	88	⊙	⊙	⊙	⊙	7.6	\$106,891	\$53,466
Total Valve	157	152	309	⊙	⊙	⊙	⊙	6.9	\$95,738	\$52,390
Penn Presbyterian										
CABG without Valve	224	202	426	⊙	⊙	⊙	⊙	6.7	\$189,481	\$37,281
Valve without CABG	155	182	337	⊙	⊙	●	●	7.6	\$207,462	\$50,174
Valve with CABG	95	99	194	⊙	⊙	⊙	⊙	9.2	\$255,224	\$59,044
Total Valve	250	281	531	⊙	⊙	⊙	●	8.2	\$223,937	\$54,158
Pennsylvania 										
CABG without Valve	97	112	209	⊙	⊙	⊙	⊙	6.9	\$206,837	\$39,610
Valve without CABG	46	25	71	●	●	⊙	⊙	8.6	\$232,342	\$53,261
Valve with CABG	30	25	55	⊙	⊙	⊙	⊙	8.6	\$243,253	\$51,400
Total Valve	76	50	126	●	●	⊙	⊙	8.6	\$233,727	\$52,480
Phoenixville										
CABG without Valve	80	92	172	⊙	●	●	⊙	6.2	\$224,982	\$41,381
Valve without CABG	14	19	33	⊙	⊙	⊙	●	7.6	\$268,359	NR
Valve with CABG	16	13	29	NR	NR	NR	NR	NR	\$276,489	NR
Total Valve	30	32	62	⊙	⊙	⊙	⊙	8.1	\$267,834	\$44,256
Pinnacle Health										
CABG without Valve	429	373	802	⊙	⊙	⊙	●	5.6	\$75,710	\$28,068
Valve without CABG	89	81	170	⊙	⊙	⊙	⊙	6.8	\$91,861	\$39,298
Valve with CABG	61	65	126	⊙	⊙	⊙	⊙	7.6	\$113,722	\$39,095
Total Valve	150	146	296	⊙	⊙	⊙	⊙	7.1	\$101,806	\$39,188
Pocono										
CABG without Valve	161	120	281	⊙	⊙	⊙	⊙	4.8	\$67,740	\$32,637
Valve without CABG	18	35	53	⊙	⊙	⊙	⊙	5.6	\$82,954	NR
Valve with CABG	27	20	47	⊙	⊙	⊙	⊙	6.8	\$95,658	NR
Total Valve	45	55	100	⊙	⊙	⊙	⊙	6.1	\$87,592	\$41,054

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

 Lower than expected
  Same as expected
  Higher than expected
 NR - Not rated (too few cases)

Hospital Data

Hospital Data 2009							
	Number of Cases 2009	Mortality				Post-Surgical Length of Stay	Average Hospital Charge
		Readmissions		Mortality			
		In-Hospital	30-Day	7-Day	30-Day		
Mercy/Scranton							
CABG without Valve	154	⊙	⊙	⊙	⊙	6.1	\$75,497
Valve without CABG	84	⊙	⊙	⊙	⊙	6.9	\$85,543
Valve with CABG	46	⊙	⊙	⊙	⊙	6.1	\$96,367
Total Valve	130	⊙	⊙	⊙	⊙	6.7	\$89,965
Milton S Hershey							
CABG without Valve	171	⊙	⊙	⊙	⊙	5.4	\$82,573
Valve without CABG	114	⊙	⊙	⊙	⊙	6.7	\$91,457
Valve with CABG	38	⊙	⊙	⊙	⊙	7.0	\$106,031
Total Valve	152	⊙	⊙	⊙	⊙	6.9	\$99,311
Penn Presbyterian							
CABG without Valve	202	⊙	⊙	⊙	⊙	6.6	\$195,292
Valve without CABG	182	⊙	⊙	⊙	⊙	7.6	\$215,878
Valve with CABG	99	⊙	⊙	⊙	⊙	9.1	\$261,485
Total Valve	281	⊙	⊙	⊙	⊙	8.1	\$230,956
Pennsylvania 							
CABG without Valve	112	⊙	⊙	⊙	⊙	6.9	\$191,274
Valve without CABG	25	NR	NR	NR	NR	NR	\$197,673
Valve with CABG	25	NR	NR	NR	NR	NR	\$221,041
Total Valve	50	⊙	⊙	⊙	⊙	8.6	\$206,348
Phoenixville							
CABG without Valve	92	⊙	⊙	⊙	⊙	6.3	\$241,720
Valve without CABG	19	NR	NR	NR	NR	NR	\$284,501
Valve with CABG	13	NR	NR	NR	NR	NR	NR
Total Valve	32	⊙	⊙	NR	NR	NR	\$291,539
Pinnacle Health							
CABG without Valve	373	⊙	⊙	⊙	⊙	5.6	\$75,487
Valve without CABG	81	⊙	⊙	⊙	⊙	6.6	\$91,284
Valve with CABG	65	⊙	⊙	⊙	⊙	8.4	\$120,475
Total Valve	146	⊙	⊙	⊙	⊙	7.3	\$104,701
Pocono							
CABG without Valve	120	⊙	⊙	⊙	⊙	4.6	\$68,921
Valve without CABG	35	⊙	⊙	⊙	⊙	5.1	\$78,313
Valve with CABG	20	NR	NR	NR	NR	NR	\$99,583
Total Valve	55	⊙	⊙	⊙	⊙	5.6	\$86,257

 Indicates this hospital has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Hospital Data

	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
Reading										
CABG without Valve	184	169	353	⊙	⊙	⊙	⊙	6.1	\$106,525	\$32,377
Valve without CABG	45	37	82	⊙	⊙	⊙	⊙	7.2	\$123,852	\$48,362
Valve with CABG	29	26	55	⊙	⊙	⊙	⊙	8.0	\$125,935	\$51,652
Total Valve	74	63	137	⊙	⊙	⊙	⊙	7.6	\$124,762	\$49,546
Robert Packer										
CABG without Valve	142	117	259	⊙	⊙	⊙	⊙	5.3	\$68,065	\$29,523
Valve without CABG	56	75	131	⊙	⊙	⊙	⊙	6.9	\$80,238	\$45,097
Valve with CABG	34	32	66	⊙	⊙	⊙	⊙	8.5	\$104,231	\$40,675
Total Valve	90	107	197	⊙	⊙	⊙	⊙	7.5	\$89,734	\$43,311
Saint Vincent Health										
CABG without Valve	333	320	653	⊙	⊙	⊙	⊙	5.5	\$138,409	\$27,853
Valve without CABG	39	34	73	⊙	⊙	⊙	⊙	6.9	\$177,819	\$52,349
Valve with CABG	45	61	106	⊙	⊙	⊙	⊙	7.9	\$216,572	\$44,983
Total Valve	84	95	179	⊙	⊙	⊙	⊙	7.3	\$197,894	\$47,930
Sharon Regional										
CABG without Valve	56	48	104	⊙	⊙	⊙	⊙	6.7	\$88,423	\$26,840
Valve without CABG	8	7	15	NR	NR	NR	NR	NR	\$93,041	NR
Valve with CABG	5	7	12	NR	NR	NR	NR	NR	NR	NR
Total Valve	13	14	27	NR	NR	NR	NR	NR	\$110,400	NR
St Clair Memorial										
CABG without Valve	166	138	304	⊙	⊙	⊙	⊙	5.3	\$65,580	\$24,471
Valve without CABG	29	34	63	⊙	⊙	⊙	⊙	6.5	\$84,322	NR
Valve with CABG	32	35	67	⊙	⊙	⊙	⊙	7.5	\$96,492	NR
Total Valve	61	69	130	⊙	⊙	⊙	⊙	6.9	\$89,902	NR
St Joseph/Reading										
CABG without Valve	76	84	160	●	●	⊙	⊙	6.3	\$84,808	\$36,269
Valve without CABG	14	20	34	⊙	⊙	⊙	⊙	6.7	\$86,116	NR
Valve with CABG	12	22	34	⊙	⊙	⊙	⊙	9.1	\$112,330	NR
Total Valve	26	42	68	⊙	⊙	⊙	⊙	7.7	\$97,254	\$46,402
St Luke's/Bethlehem										
CABG without Valve	155	153	308	⊙	⊙	⊙	⊙	5.6	\$188,647	\$31,850
Valve without CABG	43	51	94	⊙	⊙	⊙	⊙	6.5	\$215,816	\$44,381
Valve with CABG	38	37	75	⊙	⊙	⊙	⊙	7.9	\$257,919	\$56,887
Total Valve	81	88	169	⊙	⊙	⊙	⊙	7.1	\$232,778	\$49,907

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Hospital Data

Hospital Data 2009							
	Number of Cases 2009	Hospital Data 2009				Post-Surgical Length of Stay	Average Hospital Charge
		Mortality		Readmissions			
		In-Hospital	30-Day	7-Day	30-Day		
Reading							
CABG without Valve	169	⊙	⊙	⊙	⊙	6.1	\$110,845
Valve without CABG	37	⊙	⊙	⊙	⊙	6.7	\$129,672
Valve with CABG	26	NR	NR	NR	NR	NR	\$122,540
Total Valve	63	⊙	⊙	⊙	⊙	7.1	\$126,365
Robert Packer							
CABG without Valve	117	⊙	⊙	⊙	⊙	5.4	\$70,354
Valve without CABG	75	⊙	⊙	⊙	⊙	6.5	\$79,550
Valve with CABG	32	⊙	NR	NR	NR	8.4	\$108,861
Total Valve	107	⊙	⊙	⊙	⊙	7.2	\$90,117
Saint Vincent Health							
CABG without Valve	320	⊙	⊙	⊙	⊙	5.7	\$139,658
Valve without CABG	34	⊙	NR	NR	NR	6.8	\$176,631
Valve with CABG	61	⊙	⊙	⊙	⊙	8.5	\$218,963
Total Valve	95	⊙	⊙	⊙	⊙	7.6	\$198,997
Sharon Regional							
CABG without Valve	48	⊙	⊙	⊙	⊙	7.1	\$97,018
Valve without CABG	7	NR	NR	NR	NR	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR	NR
Total Valve	14	NR	NR	NR	NR	NR	\$112,186
St Clair Memorial							
CABG without Valve	138	⊙	⊙	⊙	⊙	5.4	\$64,790
Valve without CABG	34	⊙	⊙	⊙	⊙	6.4	\$84,080
Valve with CABG	35	⊙	⊙	⊙	⊙	7.7	\$108,016
Total Valve	69	⊙	⊙	⊙	⊙	6.9	\$95,475
St Joseph/Reading							
CABG without Valve	84	⊙	⊙	⊙	⊙	6.1	\$84,022
Valve without CABG	20	NR	NR	NR	NR	NR	\$91,169
Valve with CABG	22	NR	NR	NR	NR	NR	\$105,755
Total Valve	42	⊙	⊙	⊙	⊙	7.9	\$96,604
St Luke's/Bethlehem							
CABG without Valve	153	⊙	⊙	⊙	⊙	5.3	\$203,916
Valve without CABG	51	⊙	⊙	⊙	⊙	6.5	\$225,118
Valve with CABG	37	⊙	⊙	⊙	⊙	7.3	\$291,674
Total Valve	88	⊙	⊙	⊙	⊙	6.8	\$253,076

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Hospital Data

	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
St Mary										
CABG without Valve	183	175	358	⊖	⊖	⊖	●	5.0	\$105,858	\$24,298
Valve without CABG	31	31	62	⊖	⊖	⊖	⊖	6.6	\$163,854	NR
Valve with CABG	48	32	80	⊖	⊖	⊖	⊖	8.1	\$191,628	NR
Total Valve	79	63	142	⊖	⊖	⊖	⊖	7.2	\$174,899	\$42,670
Temple University										
CABG without Valve	110	92	202	⊖	○	⊖	⊖	6.7	\$362,870	\$42,333
Valve without CABG	23	42	65	⊖	⊖	⊖	⊖	8.4	\$435,273	NR
Valve with CABG	16	15	31	⊖	NR	NR	NR	NR	\$520,006	NR
Total Valve	39	57	96	⊖	⊖	⊖	⊖	9.3	\$462,647	NR
Thomas Jefferson Univ										
CABG without Valve	118	116	234	●	⊖	⊖	⊖	7.0	\$192,745	\$40,689
Valve without CABG	53	44	97	⊖	⊖	⊖	●	8.2	\$219,023	\$55,360
Valve with CABG	29	26	55	⊖	⊖	⊖	●	10.0	\$225,766	\$64,546
Total Valve	82	70	152	⊖	⊖	●	●	8.8	\$221,379	\$59,084
UPMC Mercy										
CABG without Valve	181	205	386	⊖	●	○	○	6.4	\$105,462	\$33,224
Valve without CABG	28	34	62	⊖	⊖	⊖	⊖	7.5	\$126,687	NR
Valve with CABG	44	36	80	⊖	⊖	⊖	⊖	9.3	\$150,259	NR
Total Valve	72	70	142	⊖	⊖	⊖	⊖	8.3	\$137,692	\$46,679
UPMC Passavant										
CABG without Valve	201	203	404	⊖	○	⊖	⊖	6.5	\$96,446	\$23,274
Valve without CABG	69	101	170	⊖	⊖	⊖	⊖	7.9	\$102,998	NR
Valve with CABG	67	83	150	⊖	⊖	⊖	⊖	9.3	\$136,641	NR
Total Valve	136	184	320	⊖	⊖	⊖	⊖	8.5	\$118,894	\$35,436
UPMC Presby Shadyside										
CABG without Valve	623	496	1,119	⊖	●	⊖	⊖	6.7	\$224,293	\$34,460
Valve without CABG	196	234	430	⊖	⊖	⊖	⊖	7.3	\$252,733	\$49,148
Valve with CABG	193	199	392	●	●	⊖	⊖	9.3	\$351,969	\$53,633
Total Valve	389	433	822	⊖	⊖	⊖	⊖	8.1	\$299,500	\$52,181
Washington										
CABG without Valve	107	129	236	⊖	⊖	⊖	⊖	5.7	\$75,924	\$24,058
Valve without CABG	34	39	73	⊖	⊖	●	●	6.4	\$112,403	NR
Valve with CABG	29	45	74	●	●	⊖	⊖	7.6	\$119,617	NR
Total Valve	63	84	147	⊖	⊖	●	●	6.9	\$114,953	\$36,342

○ Lower than expected ⊖ Same as expected ● Higher than expected NR - Not rated (too few cases)

Hospital Data

	Number of Cases 2009	Hospital Data 2009					
		Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge
		In-Hospital	30-Day	7-Day	30-Day		
St Mary							
CABG without Valve	175	⊙	⊙	⊙	●	5.1	\$112,108
Valve without CABG	31	⊙	NR	NR	NR	NR	\$197,005
Valve with CABG	32	⊙	NR	NR	NR	NR	\$211,958
Total Valve	63	⊙	⊙	⊙	⊙	7.6	\$199,397
Temple University							
CABG without Valve	92	⊙	⊙	⊙	●	6.7	\$357,006
Valve without CABG	42	⊙	⊙	⊙	⊙	8.6	\$425,705
Valve with CABG	15	NR	NR	NR	NR	NR	NR
Total Valve	57	⊙	⊙	⊙	⊙	9.8	\$450,696
Thomas Jefferson Univ							
CABG without Valve	116	●	●	⊙	⊙	7.1	\$202,682
Valve without CABG	44	⊙	⊙	⊙	⊙	8.4	\$233,856
Valve with CABG	26	NR	NR	NR	NR	NR	\$227,826
Total Valve	70	⊙	⊙	⊙	⊙	9.0	\$231,832
UPMC Mercy							
CABG without Valve	205	⊙	⊙	⊙	○	6.5	\$119,897
Valve without CABG	34	●	●	NR	NR	7.4	\$139,067
Valve with CABG	36	⊙	⊙	⊙	⊙	8.9	\$168,154
Total Valve	70	⊙	⊙	⊙	⊙	8.0	\$152,667
UPMC Passavant							
CABG without Valve	203	⊙	⊙	⊙	⊙	6.5	\$99,529
Valve without CABG	101	⊙	⊙	⊙	⊙	8.0	\$105,984
Valve with CABG	83	⊙	⊙	⊙	⊙	9.8	\$142,672
Total Valve	184	⊙	⊙	⊙	⊙	8.7	\$122,788
UPMC Presby Shadyside							
CABG without Valve	496	⊙	⊙	●	⊙	6.5	\$221,800
Valve without CABG	234	⊙	⊙	⊙	⊙	7.1	\$257,472
Valve with CABG	199	●	●	⊙	⊙	9.1	\$354,701
Total Valve	433	⊙	⊙	⊙	⊙	7.9	\$302,275
Washington							
CABG without Valve	129	⊙	⊙	⊙	⊙	5.7	\$76,565
Valve without CABG	39	⊙	⊙	●	⊙	6.7	\$114,226
Valve with CABG	45	●	⊙	⊙	⊙	8.2	\$121,756
Total Valve	84	⊙	⊙	⊙	⊙	7.3	\$116,211

○ Lower than expected ⊙ Same as expected ● Higher than expected NR - Not rated (too few cases)

Hospital Data

	Number of Cases			Hospital Data 2008-2009 (Two Years Combined)				Post-Surgical Length of Stay	Average Hospital Charge	2008 Average Medicare Payment
				Mortality		Readmissions				
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day			
Western PA Hosp/Forbes										
CABG without Valve	75	108	183	⊖	⊖	⊖	⊖	5.6	\$73,765	\$25,731
Valve without CABG	17	27	44	⊖	⊖	⊖	⊖	6.4	\$93,698	NR
Valve with CABG	23	29	52	⊖	⊖	⊖	⊖	7.4	\$107,673	NR
Total Valve	40	56	96	⊖	⊖	⊖	⊖	6.8	\$99,992	\$33,972
Western Pennsylvania*										
CABG without Valve	206	131	337	⊖	⊖	⊖	⊖	6.2	\$122,100	\$35,350
Valve without CABG	45	45	90	⊖	⊖	⊖	⊖	7.7	\$140,641	\$40,090
Valve with CABG	45	47	92	⊖	⊖	⊖	●	8.7	\$175,952	\$56,091
Total Valve	90	92	182	⊖	⊖	●	●	8.1	\$157,605	\$48,918
Wilkes-Barre General										
CABG without Valve	236	231	467	⊖	⊖	⊖	⊖	5.8	\$76,256	\$26,005
Valve without CABG	31	26	57	⊖	⊖	⊖	⊖	6.9	\$104,564	\$34,199
Valve with CABG	33	30	63	⊖	⊖	⊖	⊖	8.3	\$129,368	\$45,436
Total Valve	64	56	120	⊖	⊖	⊖	⊖	7.5	\$114,351	\$39,673
Williamsport										
CABG without Valve	97	99	196	⊖	⊖	⊖	⊖	4.8	\$64,711	\$23,686
Valve without CABG	26	33	59	⊖	⊖	⊖	⊖	6.2	\$80,359	NR
Valve with CABG	17	21	38	⊖	⊖	⊖	⊖	7.0	\$97,619	NR
Total Valve	43	54	97	⊖	⊖	⊖	⊖	6.5	\$86,880	\$42,269
York										
CABG without Valve	294	258	552	⊖	⊖	⊖	⊖	6.3	\$62,585	\$37,940
Valve without CABG	76	69	145	⊖	⊖	⊖	⊖	7.6	\$75,480	\$43,075
Valve with CABG	68	72	140	⊖	⊖	⊖	⊖	9.0	\$89,050	\$47,635
Total Valve	144	141	285	⊖	⊖	⊖	⊖	8.2	\$81,527	\$45,417

* Stopped performing CABG/valve procedures Q1-2011.

⊖ Lower than expected
⊖ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Hospital Data

	Number of Cases 2009	Hospital Data 2009					
		Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge
		In-Hospital	30-Day	7-Day	30-Day		
Western PA Hosp/Forbes							
CABG without Valve	108	⊙	⊙	⊙	⊙	5.7	\$74,209
Valve without CABG	27	NR	NR	NR	NR	NR	\$92,211
Valve with CABG	29	NR	NR	NR	NR	NR	\$111,430
Total Valve	56	⊙	⊙	⊙	⊙	7.0	\$101,132
Western Pennsylvania*							
CABG without Valve	131	⊙	⊙	⊙	⊙	6.0	\$125,141
Valve without CABG	45	⊙	⊙	⊙	⊙	7.5	\$137,883
Valve with CABG	47	⊙	⊙	⊙	⊙	8.2	\$173,396
Total Valve	92	⊙	⊙	⊙	⊙	7.7	\$154,625
Wilkes-Barre General							
CABG without Valve	231	⊙	⊙	⊙	⊙	6.1	\$81,856
Valve without CABG	26	NR	NR	NR	NR	NR	\$104,970
Valve with CABG	30	⊙	⊙	NR	NR	NR	\$130,951
Total Valve	56	⊙	⊙	⊙	⊙	6.9	\$113,791
Williamsport							
CABG without Valve	99	⊙	⊙	⊙	⊙	4.5	\$63,276
Valve without CABG	33	⊙	⊙	⊙	⊙	6.2	\$78,363
Valve with CABG	21	NR	NR	NR	NR	NR	\$107,724
Total Valve	54	⊙	⊙	⊙	⊙	6.5	\$89,131
York							
CABG without Valve	258	⊙	⊙	⊙	⊙	6.1	\$62,852
Valve without CABG	69	⊙	⊙	⊙	⊙	7.8	\$78,293
Valve with CABG	72	⊙	⊙	⊙	⊙	8.6	\$90,295
Total Valve	141	⊙	⊙	⊙	⊙	8.1	\$83,570

* Stopped performing CABG/valve procedures Q1-2011.

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Abrishamchian, A. Reza								
CABG without Valve	54	38	92	⊙	⊙	⊙	⊙	5.9
Valve without CABG	4	10	14	NR	NR	NR	NR	NR
Valve with CABG	4	9	13	NR	NR	NR	NR	NR
Total Valve	8	19	27	NR	NR	NR	NR	NR
Acker, Michael A.								
CABG without Valve	45	42	87	⊙	⊙	⊙	⊙	7.0
Valve without CABG	119	136	255	⊙	⊙	⊙	⊙	7.7
Valve with CABG	62	45	107	⊙	⊙	⊙	⊙	9.2
Total Valve	181	181	362	⊙	⊙	⊙	⊙	8.3
Addonizio, V. Paul*								
CABG without Valve	23	25	48	⊙	⊙	⊙	⊙	6.8
Valve without CABG	97	61	158	●	●	⊙	⊙	8.4
Valve with CABG	27	10	37	⊙	⊙	⊙	⊙	8.9
Total Valve	124	71	195	●	●	⊙	⊙	8.8
Alpern, Jeffrey								
CABG without Valve	0	16	16	NR	NR	NR	NR	NR
Valve without CABG	0	3	3	NR	NR	NR	NR	NR
Valve with CABG	0	1	1	NR	NR	NR	NR	NR
Total Valve	0	4	4	NR	NR	NR	NR	NR
Anastasi, John S.								
CABG without Valve	74	49	123	⊙	⊙	●	⊙	5.6
Valve without CABG	28	47	75	⊙	⊙	⊙	⊙	7.7
Valve with CABG	19	31	50	⊙	⊙	⊙	●	7.7
Total Valve	47	78	125	⊙	⊙	⊙	⊙	7.7
Anderson, John								
CABG without Valve	22	5	27	NR	NR	NR	NR	NR
Valve without CABG	15	2	17	NR	NR	NR	NR	NR
Valve with CABG	7	1	8	NR	NR	NR	NR	NR
Total Valve	22	3	25	NR	NR	NR	NR	NR
Anene, Charles								
CABG without Valve	24	21	45	●	●	⊙	●	7.2
Valve without CABG	3	3	6	NR	NR	NR	NR	NR
Valve with CABG	3	3	6	NR	NR	NR	NR	NR
Total Valve	6	6	12	NR	NR	NR	NR	NR
Angelico, Richard J.								
CABG without Valve	49	63	112	⊙	⊙	⊙	⊙	6.1
Valve without CABG	10	7	17	NR	NR	NR	NR	NR
Valve with CABG	11	11	22	NR	NR	NR	NR	NR
Total Valve	21	18	39	⊙	NR	NR	NR	7.8

*The hospital has informed PHC4 that this surgeon is deceased.

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Aufiero, Suzan A.								
CABG without Valve	0	5	5	NR	NR	NR	NR	NR
Valve without CABG	0	1	1	NR	NR	NR	NR	NR
Valve with CABG	0	1	1	NR	NR	NR	NR	NR
Total Valve	0	2	2	NR	NR	NR	NR	NR
Auteri, Joseph S.								
CABG without Valve	117	97	214	⊙	⊙	⊙	⊙	5.1
Valve without CABG	43	66	109	⊙	⊙	⊙	⊙	5.8
Valve with CABG	37	41	78	⊙	⊙	⊙	⊙	6.4
Total Valve	80	107	187	⊙	⊙	⊙	⊙	6.0
Bailey, Stephen H.								
CABG without Valve	80	69	149	⊙	⊙	⊙	⊙	6.0
Valve without CABG	39	48	87	⊙	⊙	⊙	⊙	7.1
Valve with CABG	12	21	33	⊙	NR	NR	NR	8.6
Total Valve	51	69	120	⊙	⊙	⊙	⊙	7.6
Bavaria, Joseph E.								
CABG without Valve	8	8	16	NR	NR	NR	NR	NR
Valve without CABG	89	85	174	●	⊙	⊙	⊙	7.9
Valve with CABG	21	21	42	⊙	NR	NR	NR	8.5
Total Valve	110	106	216	⊙	⊙	⊙	⊙	8.3
Bennett, Robert D.								
CABG without Valve	50	0	50	⊙	⊙	⊙	⊙	6.6
Valve without CABG	5	0	5	NR	NR	NR	NR	NR
Valve with CABG	6	0	6	NR	NR	NR	NR	NR
Total Valve	11	0	11	NR	NR	NR	NR	NR
Benoit, Charles H.								
CABG without Valve	77	97	174	⊙	⊙	⊙	●	6.0
Valve without CABG	32	34	66	⊙	⊙	⊙	⊙	8.0
Valve with CABG	18	22	40	●	●	⊙	⊙	10.0
Total Valve	50	56	106	⊙	⊙	⊙	⊙	8.7
Bermudez, Christian								
CABG without Valve	42	57	99	⊙	⊙	⊙	⊙	7.5
Valve without CABG	9	14	23	NR	NR	NR	NR	NR
Valve with CABG	9	15	24	NR	NR	NR	NR	NR
Total Valve	18	29	47	⊙	⊙	⊙	⊙	8.5
Bernabei, Alvise F.								
CABG without Valve	19	13	32	⊙	⊙	⊙	⊙	6.1
Valve without CABG	3	4	7	NR	NR	NR	NR	NR
Valve with CABG	4	4	8	NR	NR	NR	NR	NR
Total Valve	7	8	15	NR	NR	NR	NR	NR

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Boateng, Percy								
CABG without Valve	19	26	45	⊖	⊖	⊖	⊖	7.9
Valve without CABG	2	2	4	NR	NR	NR	NR	NR
Valve with CABG	0	1	1	NR	NR	NR	NR	NR
Total Valve	2	3	5	NR	NR	NR	NR	NR
Bogar, Linda J.								
CABG without Valve	45	37	82	⊖	⊖	⊖	⊖	5.6
Valve without CABG	15	6	21	NR	NR	NR	NR	NR
Valve with CABG	6	9	15	NR	NR	NR	NR	NR
Total Valve	21	15	36	⊖	⊖	⊖	⊖	8.8
Boonswang, Narongsak Ab								
CABG without Valve	29	34	63	⊖	⊖	⊖	⊖	6.9
Valve without CABG	4	9	13	NR	NR	NR	NR	NR
Valve with CABG	10	8	18	NR	NR	NR	NR	NR
Total Valve	14	17	31	⊖	NR	NR	NR	9.1
Boova, Robert S.								
CABG without Valve	66	57	123	⊖	⊖	⊖	⊖	6.1
Valve without CABG	34	23	57	⊖	⊖	⊖	⊖	7.1
Valve with CABG	13	8	21	NR	NR	NR	NR	NR
Total Valve	47	31	78	⊖	⊖	⊖	⊖	7.6
Brann, Stacey H.								
CABG without Valve	0	1	1	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Bridges, Charles R.								
CABG without Valve	68	91	159	⊖	⊖	⊖	⊖	7.0
Valve without CABG	46	24	70	●	●	⊖	⊖	8.8
Valve with CABG	27	21	48	⊖	⊖	⊖	⊖	8.5
Total Valve	73	45	118	⊖	●	⊖	⊖	8.7
Brown, Paul								
CABG without Valve	14	19	33	●	●	⊖	⊖	6.3
Valve without CABG	4	2	6	NR	NR	NR	NR	NR
Valve with CABG	3	4	7	NR	NR	NR	NR	NR
Total Valve	7	6	13	NR	NR	NR	NR	NR
Burlingame, Mark W.								
CABG without Valve	166	127	293	⊖	⊖	⊖	⊖	5.6
Valve without CABG	46	45	91	⊖	⊖	⊖	⊖	6.8
Valve with CABG	53	47	100	⊖	⊖	⊖	⊖	7.9
Total Valve	99	92	191	⊖	⊖	⊖	⊖	7.2

⊖ Lower than expected
⊖ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Butler, Michael D.								
CABG without Valve	69	116	185	⊙	⊙	⊙	⊙	6.0
Valve without CABG	9	18	27	NR	NR	NR	NR	NR
Valve with CABG	12	25	37	⊙	NR	NR	NR	8.2
Total Valve	21	43	64	⊙	⊙	⊙	⊙	7.7
Cahill, Anne T.								
CABG without Valve	65	54	119	⊙	⊙	⊙	⊙	4.8
Valve without CABG	3	9	12	NR	NR	NR	NR	NR
Valve with CABG	12	4	16	NR	NR	NR	NR	NR
Total Valve	15	13	28	NR	NR	NR	NR	NR
Campbell, David B.								
CABG without Valve	23	21	44	⊙	⊙	⊙	⊙	6.0
Valve without CABG	24	25	49	⊙	⊙	⊙	⊙	6.4
Valve with CABG	16	14	30	⊙	NR	NR	NR	NR
Total Valve	40	39	79	⊙	⊙	⊙	⊙	7.1
Cardone, John C.								
CABG without Valve	0	2	2	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	1	1	NR	NR	NR	NR	NR
Total Valve	0	1	1	NR	NR	NR	NR	NR
Casale, Alfred S.								
CABG without Valve	29	11	40	⊙	⊙	⊙	⊙	5.8
Valve without CABG	11	9	20	NR	NR	NR	NR	NR
Valve with CABG	5	5	10	NR	NR	NR	NR	NR
Total Valve	16	14	30	⊙	NR	NR	NR	NR
Casey, Kevin								
CABG without Valve	50	22	72	⊙	⊙	⊙	⊙	7.2
Valve without CABG	9	9	18	NR	NR	NR	NR	NR
Valve with CABG	7	6	13	NR	NR	NR	NR	NR
Total Valve	16	15	31	●	●	NR	NR	NR
Cavarocchi, Nicholas C.								
CABG without Valve	3	1	4	NR	NR	NR	NR	NR
Valve without CABG	1	0	1	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	1	0	1	NR	NR	NR	NR	NR
Childers, Henry E.								
CABG without Valve	23	0	23	NR	NR	NR	NR	NR
Valve without CABG	6	0	6	NR	NR	NR	NR	NR
Valve with CABG	9	0	9	NR	NR	NR	NR	NR
Total Valve	15	0	15	NR	NR	NR	NR	NR

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Clark, Joseph B.								
CABG without Valve	0	0	0	NR	NR	NR	NR	NR
Valve without CABG	4	2	6	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	4	2	6	NR	NR	NR	NR	NR
Cook, Chris C.								
CABG without Valve	0	22	22	NR	NR	NR	NR	NR
Valve without CABG	0	5	5	NR	NR	NR	NR	NR
Valve with CABG	0	3	3	NR	NR	NR	NR	NR
Total Valve	0	8	8	NR	NR	NR	NR	NR
Cope, Jeffrey T.								
CABG without Valve	150	126	276	⊙	⊙	●	⊙	5.4
Valve without CABG	47	38	85	⊙	⊙	⊙	⊙	7.0
Valve with CABG	51	40	91	⊙	⊙	⊙	⊙	7.9
Total Valve	98	78	176	⊙	⊙	⊙	⊙	7.3
Crouch, Ray D.								
CABG without Valve	48	59	107	⊙	⊙	⊙	⊙	6.5
Valve without CABG	7	10	17	NR	NR	NR	NR	NR
Valve with CABG	14	15	29	NR	NR	NR	NR	NR
Total Valve	21	25	46	⊙	⊙	●	●	9.7
Culig, Michael H.								
CABG without Valve	83	87	170	⊙	⊙	⊙	⊙	5.6
Valve without CABG	23	25	48	⊙	⊙	⊙	⊙	6.3
Valve with CABG	24	23	47	⊙	⊙	⊙	⊙	7.6
Total Valve	47	48	95	⊙	⊙	⊙	⊙	6.9
Darrell, John C.								
CABG without Valve	89	82	171	⊙	⊙	⊙	⊙	5.6
Valve without CABG	8	5	13	NR	NR	NR	NR	NR
Valve with CABG	18	11	29	NR	NR	NR	NR	NR
Total Valve	26	16	42	●	●	●	●	8.3
Dasika, Uday K.								
CABG without Valve	35	37	72	⊙	⊙	⊙	⊙	6.4
Valve without CABG	7	12	19	NR	NR	NR	NR	NR
Valve with CABG	7	6	13	NR	NR	NR	NR	NR
Total Valve	14	18	32	⊙	⊙	⊙	⊙	7.9
Davliakos, George P.								
CABG without Valve	100	81	181	⊙	⊙	⊙	⊙	6.2
Valve without CABG	20	19	39	⊙	⊙	⊙	⊙	8.4
Valve with CABG	17	23	40	⊙	⊙	⊙	⊙	9.5
Total Valve	37	42	79	⊙	⊙	⊙	⊙	8.8

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Dean, David A.								
CABG without Valve	54	45	99	⊙	⊙	⊙	⊙	6.6
Valve without CABG	11	8	19	NR	NR	NR	NR	NR
Valve with CABG	7	3	10	NR	NR	NR	NR	NR
Total Valve	18	11	29	NR	NR	NR	NR	NR
Desai, Nimesh Dilip								
CABG without Valve	0	7	7	NR	NR	NR	NR	NR
Valve without CABG	0	2	2	NR	NR	NR	NR	NR
Valve with CABG	0	2	2	NR	NR	NR	NR	NR
Total Valve	0	4	4	NR	NR	NR	NR	NR
Deshpande, Anil S.								
CABG without Valve	17	7	24	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Devineni, Rajsekhar								
CABG without Valve	80	70	150	⊙	⊙	⊙	⊙	5.0
Valve without CABG	23	37	60	⊙	⊙	⊙	⊙	5.8
Valve with CABG	27	33	60	⊙	⊙	⊙	⊙	6.2
Total Valve	50	70	120	⊙	⊙	⊙	⊙	5.9
DiMarco Jr., Ross F.								
CABG without Valve	101	108	209	⊙	⊙	⊙	⊙	6.2
Valve without CABG	22	16	38	⊙	⊙	⊙	⊙	7.5
Valve with CABG	34	16	50	⊙	⊙	⊙	⊙	9.7
Total Valve	56	32	88	⊙	⊙	⊙	⊙	8.5
DiSesa, Verdi J.								
CABG without Valve	28	0	28	NR	NR	NR	NR	NR
Valve without CABG	14	0	14	NR	NR	NR	NR	NR
Valve with CABG	5	0	5	NR	NR	NR	NR	NR
Total Valve	19	0	19	NR	NR	NR	NR	NR
Diehl, James T.								
CABG without Valve	52	65	117	⊙	⊙	●	●	6.8
Valve without CABG	39	31	70	⊙	⊙	⊙	⊙	7.6
Valve with CABG	17	18	35	⊙	NR	NR	NR	9.5
Total Valve	56	49	105	⊙	⊙	⊙	●	8.3
Duhay, Francis G.								
CABG without Valve	12	0	12	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
El-Khatib, Hazem N.								
CABG without Valve	100	96	196	⊙	⊙	⊙	⊙	6.2
Valve without CABG	20	21	41	⊙	⊙	⊙	⊙	8.2
Valve with CABG	27	29	56	⊙	⊙	⊙	⊙	9.2
Total Valve	47	50	97	⊙	⊙	⊙	⊙	8.5
Entwistle III, John W.								
CABG without Valve	44	49	93	⊙	⊙	⊙	⊙	7.5
Valve without CABG	6	9	15	NR	NR	NR	NR	NR
Valve with CABG	10	4	14	NR	NR	NR	NR	NR
Total Valve	16	13	29	NR	NR	NR	NR	NR
Esrig, Barry								
CABG without Valve	55	37	92	⊙	⊙	⊙	⊙	5.5
Valve without CABG	21	28	49	⊙	NR	NR	NR	7.2
Valve with CABG	15	11	26	NR	NR	NR	NR	NR
Total Valve	36	39	75	⊙	NR	NR	NR	8.0
Fall, Stephen M.								
CABG without Valve	63	65	128	⊙	⊙	⊙	⊙	5.5
Valve without CABG	11	12	23	NR	NR	NR	NR	NR
Valve with CABG	16	10	26	NR	NR	NR	NR	NR
Total Valve	27	22	49	⊙	⊙	⊙	⊙	7.5
Fazi, Burt								
CABG without Valve	48	65	113	⊙	⊙	⊙	⊙	5.7
Valve without CABG	13	12	25	NR	NR	NR	NR	NR
Valve with CABG	12	19	31	⊙	⊙	⊙	⊙	9.0
Total Valve	25	31	56	⊙	⊙	⊙	⊙	8.1
Feaster III, Marshall M.								
CABG without Valve	47	36	83	⊙	⊙	⊙	⊙	6.5
Valve without CABG	7	8	15	NR	NR	NR	NR	NR
Valve with CABG	6	4	10	NR	NR	NR	NR	NR
Total Valve	13	12	25	NR	NR	NR	NR	NR
Ferdinand, Francis D.								
CABG without Valve	66	59	125	⊙	⊙	⊙	⊙	6.7
Valve without CABG	18	11	29	NR	NR	NR	NR	NR
Valve with CABG	15	13	28	NR	NR	NR	NR	NR
Total Valve	33	24	57	⊙	⊙	⊙	⊙	8.4
Fitzgibbon, Leo D.								
CABG without Valve	63	58	121	⊙	⊙	⊙	⊙	5.4
Valve without CABG	30	38	68	⊙	⊙	⊙	⊙	7.0
Valve with CABG	20	19	39	⊙	⊙	⊙	⊙	7.9
Total Valve	50	57	107	⊙	⊙	⊙	⊙	7.4

○ Lower than expected
 ⊙ Same as expected
 ● Higher than expected
 NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Fuller, Stephanie								
CABG without Valve	0	0	0	NR	NR	NR	NR	NR
Valve without CABG	0	1	1	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	1	1	NR	NR	NR	NR	NR
Furukawa, Satoshi								
CABG without Valve	55	57	112	⊙	⊙	⊙	⊙	6.1
Valve without CABG	11	28	39	⊙	⊙	⊙	●	7.7
Valve with CABG	16	9	25	NR	NR	NR	NR	NR
Total Valve	27	37	64	⊙	⊙	⊙	⊙	8.6
Garrido, Mauricio								
CABG without Valve	88	116	204	⊙	⊙	⊙	●	6.6
Valve without CABG	1	18	19	NR	NR	NR	NR	NR
Valve with CABG	1	4	5	NR	NR	NR	NR	NR
Total Valve	2	22	24	NR	NR	NR	NR	NR
Ghalili, Kourosh								
CABG without Valve	0	2	2	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	1	1	NR	NR	NR	NR	NR
Total Valve	0	1	1	NR	NR	NR	NR	NR
Gilbert, Christian L.								
CABG without Valve	0	1	1	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Gleason, Thomas G.								
CABG without Valve	73	74	147	⊙	⊙	⊙	⊙	6.2
Valve without CABG	21	42	63	⊙	⊙	⊙	⊙	6.3
Valve with CABG	22	36	58	⊙	⊙	●	⊙	9.7
Total Valve	43	78	121	⊙	⊙	⊙	⊙	7.6
Goldberg, Aron T.								
CABG without Valve	111	117	228	⊙	⊙	⊙	⊙	5.4
Valve without CABG	5	7	12	NR	NR	NR	NR	NR
Valve with CABG	10	22	32	⊙	⊙	⊙	⊙	7.6
Total Valve	15	29	44	⊙	⊙	⊙	⊙	6.8
Goldman, Scott M.								
CABG without Valve	13	10	23	NR	NR	NR	NR	NR
Valve without CABG	105	123	228	⊙	⊙	⊙	⊙	6.8
Valve with CABG	20	20	40	⊙	⊙	⊙	⊙	11.0
Total Valve	125	143	268	⊙	⊙	⊙	⊙	7.6

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Grau, Juan B.								
CABG without Valve	1	26	27	NR	NR	NR	NR	NR
Valve without CABG	1	1	2	NR	NR	NR	NR	NR
Valve with CABG	0	3	3	NR	NR	NR	NR	NR
Total Valve	1	4	5	NR	NR	NR	NR	NR
Grunewald, Karl E.								
CABG without Valve	105	51	156	⊙	⊙	⊙	⊙	6.4
Valve without CABG	15	10	25	NR	NR	NR	NR	NR
Valve with CABG	3	12	15	NR	NR	NR	NR	NR
Total Valve	18	22	40	⊙	⊙	⊙	⊙	8.1
Guerraty, Albert J.								
CABG without Valve	73	74	147	⊙	⊙	⊙	⊙	6.7
Valve without CABG	8	10	18	NR	NR	NR	NR	NR
Valve with CABG	9	7	16	NR	NR	NR	NR	NR
Total Valve	17	17	34	⊙	NR	NR	NR	9.0
Gurbuz, Tayfun								
CABG without Valve	96	97	193	⊙	⊙	⊙	⊙	4.8
Valve without CABG	26	33	59	⊙	⊙	⊙	⊙	6.2
Valve with CABG	17	21	38	⊙	⊙	⊙	⊙	7.0
Total Valve	43	54	97	⊙	⊙	⊙	⊙	6.5
Hargrove III, W. Clark								
CABG without Valve	52	35	87	⊙	NR	NR	NR	6.7
Valve without CABG	112	119	231	●	⊙	●	●	7.5
Valve with CABG	40	33	73	⊙	NR	NR	NR	8.7
Total Valve	152	152	304	⊙	⊙	⊙	●	8.0
Harostock, Michael								
CABG without Valve	236	231	467	⊙	⊙	⊙	⊙	5.8
Valve without CABG	31	26	57	⊙	⊙	⊙	⊙	6.9
Valve with CABG	33	30	63	⊙	⊙	⊙	⊙	8.3
Total Valve	64	56	120	⊙	⊙	⊙	⊙	7.5
Haupt, Hans M.								
CABG without Valve	32	41	73	⊙	⊙	⊙	⊙	6.4
Valve without CABG	9	14	23	NR	NR	NR	NR	NR
Valve with CABG	8	9	17	NR	NR	NR	NR	NR
Total Valve	17	23	40	⊙	⊙	⊙	⊙	8.0
Haybron, David M.								
CABG without Valve	119	85	204	⊙	⊙	⊙	⊙	6.3
Valve without CABG	31	38	69	⊙	⊙	⊙	⊙	7.5
Valve with CABG	38	35	73	⊙	⊙	⊙	⊙	8.4
Total Valve	69	73	142	⊙	⊙	⊙	●	7.8

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Henry, Scott E.								
CABG without Valve	5	0	5	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Hetzler, Norman A.								
CABG without Valve	58	53	111	⊙	●	⊙	●	5.7
Valve without CABG	8	7	15	NR	NR	NR	NR	NR
Valve with CABG	20	15	35	⊙	⊙	⊙	⊙	7.7
Total Valve	28	22	50	⊙	⊙	⊙	⊙	6.8
Highbloom, Richard Y.								
CABG without Valve	0	1	1	NR	NR	NR	NR	NR
Valve without CABG	0	1	1	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	1	1	NR	NR	NR	NR	NR
Hong-Barco, Pablo								
CABG without Valve	0	1	1	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Jayakar, David								
CABG without Valve	44	98	142	⊙	⊙	⊙	⊙	5.5
Valve without CABG	3	8	11	NR	NR	NR	NR	NR
Valve with CABG	5	8	13	NR	NR	NR	NR	NR
Total Valve	8	16	24	NR	NR	NR	NR	NR
Katigbak, Mario Winn								
CABG without Valve	7	18	25	NR	NR	NR	NR	NR
Valve without CABG	1	0	1	NR	NR	NR	NR	NR
Valve with CABG	0	1	1	NR	NR	NR	NR	NR
Total Valve	1	1	2	NR	NR	NR	NR	NR
Khawaja, Fawad								
CABG without Valve	0	29	29	NR	NR	NR	NR	NR
Valve without CABG	0	4	4	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	4	4	NR	NR	NR	NR	NR
Kormos, Robert L.								
CABG without Valve	0	0	0	NR	NR	NR	NR	NR
Valve without CABG	0	1	1	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	1	1	NR	NR	NR	NR	NR

⊙ Lower than expected
 ⊙ Same as expected
 ● Higher than expected
 NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Kuchler, Joseph								
CABG without Valve	0	0	0	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	1	1	NR	NR	NR	NR	NR
Total Valve	0	1	1	NR	NR	NR	NR	NR
Kuretu, M. L. Ray								
CABG without Valve	39	43	82	⊙	⊙	●	●	7.5
Valve without CABG	6	5	11	NR	NR	NR	NR	NR
Valve with CABG	3	4	7	NR	NR	NR	NR	NR
Total Valve	9	9	18	NR	NR	NR	NR	NR
Lazar, Michael J.								
CABG without Valve	102	75	177	⊙	⊙	⊙	⊙	5.5
Valve without CABG	7	9	16	NR	NR	NR	NR	NR
Valve with CABG	11	6	17	NR	NR	NR	NR	NR
Total Valve	18	15	33	⊙	⊙	⊙	⊙	6.5
LeBoutillier III, Martin								
CABG without Valve	70	69	139	⊙	⊙	⊙	⊙	6.3
Valve without CABG	25	15	40	⊙	⊙	⊙	⊙	7.8
Valve with CABG	9	12	21	NR	NR	NR	NR	NR
Total Valve	34	27	61	⊙	⊙	⊙	⊙	8.6
Lico, Serrie C.								
CABG without Valve	72	19	91	⊙	⊙	⊙	⊙	4.7
Valve without CABG	13	4	17	NR	NR	NR	NR	NR
Valve with CABG	25	9	34	⊙	⊙	⊙	⊙	7.3
Total Valve	38	13	51	⊙	⊙	⊙	⊙	6.2
Lima, Claudio A. B.								
CABG without Valve	125	101	226	⊙	⊙	⊙	⊙	6.4
Valve without CABG	34	29	63	⊙	⊙	⊙	⊙	7.1
Valve with CABG	34	28	62	⊙	⊙	⊙	⊙	8.0
Total Valve	68	57	125	⊙	⊙	⊙	⊙	7.5
Machiraju, Venkata R.								
CABG without Valve	121	102	223	⊙	⊙	⊙	⊙	6.9
Valve without CABG	68	64	132	⊙	⊙	⊙	⊙	6.9
Valve with CABG	68	61	129	⊙	⊙	⊙	⊙	8.5
Total Valve	136	125	261	⊙	⊙	⊙	⊙	7.6
Magovern Jr., George J.								
CABG without Valve	22	20	42	⊙	⊙	NR	NR	7.2
Valve without CABG	47	34	81	⊙	⊙	⊙	⊙	7.9
Valve with CABG	16	19	35	⊙	⊙	NR	NR	10.9
Total Valve	63	53	116	⊙	⊙	⊙	⊙	8.8

○ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Maher, Thomas								
CABG without Valve	50	27	77	⊙	⊙	⊙	⊙	6.6
Valve without CABG	40	21	61	⊙	⊙	⊙	⊙	8.1
Valve with CABG	17	6	23	NR	NR	NR	NR	NR
Total Valve	57	27	84	⊙	⊙	⊙	⊙	8.5
Mangi, Abeel A.								
CABG without Valve	0	9	9	NR	NR	NR	NR	NR
Valve without CABG	0	12	12	NR	NR	NR	NR	NR
Valve with CABG	0	2	2	NR	NR	NR	NR	NR
Total Valve	0	14	14	NR	NR	NR	NR	NR
Marbey, Mark								
CABG without Valve	82	83	165	⊙	⊙	⊙	⊙	5.6
Valve without CABG	23	17	40	⊙	⊙	⊙	⊙	7.6
Valve with CABG	14	27	41	⊙	⊙	⊙	⊙	8.1
Total Valve	37	44	81	⊙	⊙	⊙	⊙	7.7
Marrone, Gary C.								
CABG without Valve	34	37	71	⊙	⊙	⊙	⊙	6.7
Valve without CABG	5	6	11	NR	NR	NR	NR	NR
Valve with CABG	4	6	10	NR	NR	NR	NR	NR
Total Valve	9	12	21	NR	NR	NR	NR	NR
Martella, Arthur T.								
CABG without Valve	52	53	105	⊙	●	●	⊙	5.9
Valve without CABG	5	5	10	NR	NR	NR	NR	NR
Valve with CABG	8	4	12	NR	NR	NR	NR	NR
Total Valve	13	9	22	NR	NR	NR	NR	NR
Mavridis, Savas								
CABG without Valve	75	71	146	⊙	⊙	⊙	⊙	5.4
Valve without CABG	29	24	53	⊙	⊙	⊙	⊙	6.5
Valve with CABG	21	9	30	⊙	NR	NR	NR	NR
Total Valve	50	33	83	⊙	⊙	⊙	⊙	6.6
McCarty, Christine M.								
CABG without Valve	204	169	373	⊙	⊙	⊙	●	5.3
Valve without CABG	17	23	40	⊙	⊙	⊙	⊙	6.5
Valve with CABG	11	17	28	NR	NR	NR	NR	NR
Total Valve	28	40	68	⊙	⊙	⊙	⊙	7.0
McClurken, James B.								
CABG without Valve	32	23	55	⊙	⊙	⊙	⊙	6.8
Valve without CABG	12	10	22	NR	NR	NR	NR	NR
Valve with CABG	3	5	8	NR	NR	NR	NR	NR
Total Valve	15	15	30	⊙	NR	NR	NR	NR

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
McCurry, Kenneth R.								
CABG without Valve	41	0	41	⊙	⊙	⊙	⊙	7.5
Valve without CABG	7	0	7	NR	NR	NR	NR	NR
Valve with CABG	13	0	13	NR	NR	NR	NR	NR
Total Valve	20	0	20	NR	NR	NR	NR	NR
McGregor, Walter E.								
CABG without Valve	0	61	61	●	●	⊙	⊙	5.8
Valve without CABG	0	11	11	NR	NR	NR	NR	NR
Valve with CABG	0	18	18	NR	NR	NR	NR	NR
Total Valve	0	29	29	NR	NR	NR	NR	NR
Mehta, Sanjay M.								
CABG without Valve	69	76	145	⊙	⊙	⊙	⊙	4.6
Valve without CABG	31	20	51	⊙	⊙	⊙	⊙	5.7
Valve with CABG	18	32	50	⊙	⊙	⊙	⊙	5.9
Total Valve	49	52	101	⊙	⊙	⊙	⊙	5.8
Metcalfe, Randy K.								
CABG without Valve	157	134	291	⊙	⊙	⊙	●	7.5
Valve without CABG	14	11	25	NR	NR	NR	NR	NR
Valve with CABG	32	27	59	⊙	⊙	●	⊙	11.8
Total Valve	46	38	84	⊙	⊙	●	●	10.4
Moraca, Robert J.								
CABG without Valve	51	64	115	⊙	⊙	⊙	⊙	6.5
Valve without CABG	6	19	25	NR	NR	NR	NR	NR
Valve with CABG	8	21	29	NR	NR	NR	NR	NR
Total Valve	14	40	54	⊙	⊙	⊙	⊙	8.0
Morris, Rohinton J.								
CABG without Valve	147	97	244	⊙	⊙	⊙	⊙	6.5
Valve without CABG	31	28	59	⊙	⊙	●	●	7.6
Valve with CABG	35	39	74	⊙	⊙	NR	NR	9.0
Total Valve	66	67	133	⊙	⊙	⊙	⊙	8.2
Mott, Brian D.								
CABG without Valve	56	41	97	⊙	⊙	⊙	⊙	5.1
Valve without CABG	8	15	23	NR	NR	NR	NR	NR
Valve with CABG	7	5	12	NR	NR	NR	NR	NR
Total Valve	15	20	35	⊙	⊙	⊙	⊙	6.4
Mumtaz, Mubashir								
CABG without Valve	55	56	111	⊙	⊙	⊙	⊙	5.5
Valve without CABG	96	79	175	⊙	⊙	⊙	⊙	7.0
Valve with CABG	59	55	114	⊙	⊙	⊙	⊙	7.1
Total Valve	155	134	289	⊙	⊙	⊙	⊙	7.1

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Myers, John L.								
CABG without Valve	0	0	0	NR	NR	NR	NR	NR
Valve without CABG	0	2	2	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	2	2	NR	NR	NR	NR	NR
Navid, Forozan								
CABG without Valve	74	89	163	⊙	⊙	●	●	6.4
Valve without CABG	16	18	34	⊙	⊙	NR	NR	7.7
Valve with CABG	17	28	45	●	●	⊙	●	10.0
Total Valve	33	46	79	●	●	⊙	⊙	8.7
Nixon, Todd E.								
CABG without Valve	93	96	189	⊙	⊙	●	●	4.6
Valve without CABG	23	21	44	⊙	⊙	⊙	⊙	6.6
Valve with CABG	29	22	51	⊙	⊙	⊙	⊙	7.6
Total Valve	52	43	95	⊙	⊙	⊙	⊙	7.0
Nunez, Anthony I.								
CABG without Valve	0	15	15	NR	NR	NR	NR	NR
Valve without CABG	0	4	4	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	4	4	NR	NR	NR	NR	NR
Nutting, Ron D.								
CABG without Valve	52	54	106	⊙	⊙	⊙	⊙	5.9
Valve without CABG	15	7	22	NR	NR	NR	NR	NR
Valve with CABG	6	11	17	NR	NR	NR	NR	NR
Total Valve	21	18	39	⊙	⊙	⊙	⊙	7.6
Olenchock Jr., Stephen A.								
CABG without Valve	30	53	83	⊙	⊙	⊙	⊙	5.2
Valve without CABG	13	16	29	NR	NR	NR	NR	NR
Valve with CABG	6	17	23	NR	NR	NR	NR	NR
Total Valve	19	33	52	⊙	⊙	⊙	⊙	6.9
Osevala, Mark A.								
CABG without Valve	170	144	314	⊙	⊙	⊙	⊙	5.5
Valve without CABG	11	12	23	NR	NR	NR	NR	NR
Valve with CABG	9	15	24	NR	NR	NR	NR	NR
Total Valve	20	27	47	⊙	●	⊙	⊙	6.8
Osman, Ashraf								
CABG without Valve	22	6	28	NR	NR	NR	NR	NR
Valve without CABG	3	0	3	NR	NR	NR	NR	NR
Valve with CABG	1	0	1	NR	NR	NR	NR	NR
Total Valve	4	0	4	NR	NR	NR	NR	NR

⊙ Lower than expected
 ⊙ Same as expected
 ● Higher than expected
 NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Ovadia, Philip								
CABG without Valve	74	76	150	⊙	⊙	●	⊙	6.4
Valve without CABG	10	21	31	●	NR	NR	NR	NR
Valve with CABG	16	17	33	⊙	●	NR	NR	NR
Total Valve	26	38	64	●	●	⊙	⊙	8.7
Pae, Walter E.								
CABG without Valve	12	6	18	NR	NR	NR	NR	NR
Valve without CABG	55	50	105	⊙	⊙	⊙	⊙	6.0
Valve with CABG	13	12	25	NR	NR	NR	NR	NR
Total Valve	68	62	130	⊙	⊙	⊙	⊙	6.3
Park, Chong S.								
CABG without Valve	63	74	137	⊙	⊙	⊙	⊙	6.3
Valve without CABG	7	21	28	NR	NR	NR	NR	NR
Valve with CABG	13	13	26	NR	NR	NR	NR	NR
Total Valve	20	34	54	⊙	⊙	⊙	⊙	8.7
Park, Kyung S.								
CABG without Valve	91	83	174	⊙	⊙	⊙	⊙	6.1
Valve without CABG	9	19	28	NR	NR	NR	NR	NR
Valve with CABG	19	33	52	⊙	⊙	⊙	⊙	8.7
Total Valve	28	52	80	⊙	⊙	⊙	⊙	7.9
Park, Sang B.								
CABG without Valve	48	50	98	⊙	⊙	⊙	⊙	6.2
Valve without CABG	21	20	41	⊙	⊙	⊙	⊙	7.4
Valve with CABG	22	17	39	⊙	⊙	⊙	⊙	8.8
Total Valve	43	37	80	⊙	⊙	⊙	⊙	8.0
Park, Sung J.								
CABG without Valve	117	108	225	⊙	⊙	●	●	5.7
Valve without CABG	8	5	13	NR	NR	NR	NR	NR
Valve with CABG	8	21	29	NR	NR	NR	NR	NR
Total Valve	16	26	42	⊙	⊙	⊙	⊙	7.6
Patel, Amit								
CABG without Valve	3	0	3	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Pellegrini, Ronald V.								
CABG without Valve	160	81	241	⊙	⊙	⊙	⊙	6.6
Valve without CABG	56	80	136	⊙	⊙	⊙	⊙	7.8
Valve with CABG	56	50	106	⊙	⊙	⊙	⊙	9.1
Total Valve	112	130	242	⊙	⊙	⊙	●	8.3

⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Pennock, John L.								
CABG without Valve	83	85	168	●	●	○	○	6.2
Valve without CABG	9	5	14	NR	NR	NR	NR	NR
Valve with CABG	6	6	12	NR	NR	NR	NR	NR
Total Valve	15	11	26	NR	NR	NR	NR	NR
Phillips, Theodore G.								
CABG without Valve	130	130	260	○	○	○	○	4.9
Valve without CABG	14	11	25	NR	NR	NR	NR	NR
Valve with CABG	10	15	25	NR	NR	NR	NR	NR
Total Valve	24	26	50	○	○	○	○	6.3
Pierce, Alice M.								
CABG without Valve	81	73	154	●	●	○	○	6.7
Valve without CABG	4	7	11	NR	NR	NR	NR	NR
Valve with CABG	12	5	17	NR	NR	NR	NR	NR
Total Valve	16	12	28	NR	NR	NR	NR	NR
Pochettino, Alberto								
CABG without Valve	28	32	60	○	○	○	○	7.4
Valve without CABG	30	27	57	○	○	○	○	7.4
Valve with CABG	19	19	38	○	NR	NR	NR	9.7
Total Valve	49	46	95	○	○	○	○	8.2
Pourmoghadam, Kamal K.								
CABG without Valve	0	0	0	NR	NR	NR	NR	NR
Valve without CABG	0	1	1	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	1	1	NR	NR	NR	NR	NR
Priest, Brian P.								
CABG without Valve	8	3	11	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	2	0	2	NR	NR	NR	NR	NR
Total Valve	2	0	2	NR	NR	NR	NR	NR
Pym, John								
CABG without Valve	61	61	122	●	●	○	○	6.1
Valve without CABG	2	5	7	NR	NR	NR	NR	NR
Valve with CABG	2	4	6	NR	NR	NR	NR	NR
Total Valve	4	9	13	NR	NR	NR	NR	NR
Ravishankar, Raman								
CABG without Valve	7	63	70	○	○	○	○	6.2
Valve without CABG	1	4	5	NR	NR	NR	NR	NR
Valve with CABG	2	3	5	NR	NR	NR	NR	NR
Total Valve	3	7	10	NR	NR	NR	NR	NR

○ Lower than expected ○ Same as expected ● Higher than expected NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Reitknecht, Felice L.								
CABG without Valve	76	42	118	⊙	⊙	⊙	⊙	5.1
Valve without CABG	31	39	70	⊙	⊙	⊙	⊙	6.6
Valve with CABG	17	19	36	⊙	NR	NR	NR	8.0
Total Valve	48	58	106	⊙	⊙	⊙	⊙	7.1
Rice, Philip L.								
CABG without Valve	0	2	2	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Risher, William H.								
CABG without Valve	41	0	41	⊙	⊙	⊙	⊙	6.8
Valve without CABG	8	0	8	NR	NR	NR	NR	NR
Valve with CABG	16	0	16	NR	NR	NR	NR	NR
Total Valve	24	0	24	NR	NR	NR	NR	NR
Rizzoni, Walter E.								
CABG without Valve	11	11	22	NR	NR	NR	NR	NR
Valve without CABG	0	1	1	NR	NR	NR	NR	NR
Valve with CABG	1	0	1	NR	NR	NR	NR	NR
Total Valve	1	1	2	NR	NR	NR	NR	NR
Samuels, Louis E.								
CABG without Valve	81	75	156	⊙	⊙	⊙	⊙	5.5
Valve without CABG	12	7	19	NR	NR	NR	NR	NR
Valve with CABG	6	11	17	NR	NR	NR	NR	NR
Total Valve	18	18	36	⊙	⊙	⊙	⊙	7.1
Samy, Sanjay								
CABG without Valve	11	38	49	⊙	NR	NR	NR	5.5
Valve without CABG	4	8	12	NR	NR	NR	NR	NR
Valve with CABG	2	2	4	NR	NR	NR	NR	NR
Total Valve	6	10	16	NR	NR	NR	NR	NR
Seibel, P. Scott								
CABG without Valve	8	2	10	NR	NR	NR	NR	NR
Valve without CABG	5	1	6	NR	NR	NR	NR	NR
Valve with CABG	2	0	2	NR	NR	NR	NR	NR
Total Valve	7	1	8	NR	NR	NR	NR	NR
Shariff, Haji M.								
CABG without Valve	66	54	120	⊙	⊙	⊙	⊙	5.4
Valve without CABG	7	10	17	NR	NR	NR	NR	NR
Valve with CABG	19	9	28	NR	NR	NR	NR	NR
Total Valve	26	19	45	⊙	⊙	⊙	⊙	7.8

⊙ Lower than expected
 ⊙ Same as expected
 ● Higher than expected
 NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Shears II, Larry								
CABG without Valve	164	158	322	⊙	○	⊙	⊙	5.9
Valve without CABG	56	49	105	⊙	⊙	⊙	⊙	7.5
Valve with CABG	48	52	100	⊙	⊙	⊙	⊙	8.5
Total Valve	104	101	205	⊙	⊙	⊙	⊙	7.9
Siegenthaler, Michael								
CABG without Valve	38	8	46	●	⊙	⊙	⊙	6.4
Valve without CABG	7	4	11	NR	NR	NR	NR	NR
Valve with CABG	8	5	13	NR	NR	NR	NR	NR
Total Valve	15	9	24	NR	NR	NR	NR	NR
Silvestry, Scott C.								
CABG without Valve	55	48	103	⊙	⊙	⊙	⊙	7.1
Valve without CABG	13	12	25	NR	NR	NR	NR	NR
Valve with CABG	10	8	18	NR	NR	NR	NR	NR
Total Valve	23	20	43	⊙	NR	NR	NR	10.5
Singer, Raymond L.								
CABG without Valve	36	38	74	⊙	⊙	⊙	⊙	4.9
Valve without CABG	70	74	144	⊙	⊙	⊙	⊙	5.8
Valve with CABG	21	22	43	⊙	⊙	⊙	⊙	6.3
Total Valve	91	96	187	⊙	⊙	⊙	⊙	6.1
Singh, Deepak								
CABG without Valve	28	39	67	⊙	⊙	⊙	○	5.0
Valve without CABG	18	15	33	⊙	⊙	⊙	○	6.0
Valve with CABG	9	3	12	NR	NR	NR	NR	NR
Total Valve	27	18	45	⊙	⊙	⊙	⊙	6.9
Soltesz, Edward								
CABG without Valve	0	1	1	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Sortino, Antonio								
CABG without Valve	96	110	206	⊙	⊙	⊙	⊙	5.6
Valve without CABG	33	38	71	⊙	⊙	●	●	6.4
Valve with CABG	27	38	65	⊙	⊙	⊙	⊙	7.5
Total Valve	60	76	136	⊙	⊙	●	●	6.8
Speziali, Giovanni								
CABG without Valve	42	102	144	⊙	⊙	⊙	⊙	6.6
Valve without CABG	4	16	20	NR	NR	NR	NR	NR
Valve with CABG	4	29	33	⊙	⊙	⊙	⊙	10.3
Total Valve	8	45	53	⊙	⊙	⊙	⊙	8.9

○ Lower than expected ⊙ Same as expected ● Higher than expected NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Spray, Thomas L.								
CABG without Valve	0	0	0	NR	NR	NR	NR	NR
Valve without CABG	0	1	1	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	1	1	NR	NR	NR	NR	NR
Stahl, Russell								
CABG without Valve	60	79	139	⊙	⊙	○	○	5.5
Valve without CABG	15	19	34	⊙	⊙	⊙	⊙	6.9
Valve with CABG	17	18	35	⊙	⊙	⊙	⊙	8.5
Total Valve	32	37	69	⊙	⊙	⊙	⊙	7.6
Steinberg, Jay								
CABG without Valve	2	0	2	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Stella, Joseph								
CABG without Valve	39	43	82	⊙	⊙	⊙	⊙	5.1
Valve without CABG	15	8	23	NR	NR	NR	NR	NR
Valve with CABG	8	7	15	NR	NR	NR	NR	NR
Total Valve	23	15	38	⊙	⊙	⊙	⊙	6.2
Stephenson, Edward R.								
CABG without Valve	49	53	102	⊙	⊙	⊙	⊙	5.1
Valve without CABG	16	22	38	⊙	⊙	⊙	⊙	7.9
Valve with CABG	10	6	16	NR	NR	NR	NR	NR
Total Valve	26	28	54	⊙	⊙	⊙	⊙	8.0
Stivala, Charles								
CABG without Valve	48	52	100	⊙	⊙	⊙	⊙	5.9
Valve without CABG	1	2	3	NR	NR	NR	NR	NR
Valve with CABG	1	5	6	NR	NR	NR	NR	NR
Total Valve	2	7	9	NR	NR	NR	NR	NR
Strong III, Michael D.								
CABG without Valve	38	0	38	●	NR	NR	NR	10.1
Valve without CABG	8	0	8	NR	NR	NR	NR	NR
Valve with CABG	7	0	7	NR	NR	NR	NR	NR
Total Valve	15	0	15	NR	NR	NR	NR	NR
Strzalka, Christopher T.								
CABG without Valve	118	111	229	⊙	⊙	⊙	⊙	4.9
Valve without CABG	5	1	6	NR	NR	NR	NR	NR
Valve with CABG	7	2	9	NR	NR	NR	NR	NR
Total Valve	12	3	15	NR	NR	NR	NR	NR

○ Lower than expected ⊙ Same as expected ● Higher than expected NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Sullivan, Lawrence X.								
CABG without Valve	52	3	55	⊙	⊙	⊙	⊙	6.1
Valve without CABG	6	1	7	NR	NR	NR	NR	NR
Valve with CABG	6	0	6	NR	NR	NR	NR	NR
Total Valve	12	1	13	NR	NR	NR	NR	NR
Sutter, Francis P.								
CABG without Valve	203	222	425	⊙	⊙	○	⊙	5.1
Valve without CABG	9	3	12	NR	NR	NR	NR	NR
Valve with CABG	10	14	24	NR	NR	NR	NR	NR
Total Valve	19	17	36	⊙	⊙	⊙	⊙	7.8
Suzuki, Mark Masaru								
CABG without Valve	156	143	299	⊙	⊙	⊙	⊙	7.3
Valve without CABG	17	17	34	⊙	⊙	⊙	⊙	7.2
Valve with CABG	37	34	71	⊙	⊙	⊙	⊙	9.9
Total Valve	54	51	105	⊙	⊙	⊙	⊙	8.5
Szeto, Wilson Y.								
CABG without Valve	62	66	128	⊙	⊙	⊙	⊙	7.4
Valve without CABG	36	53	89	⊙	⊙	NR	NR	8.2
Valve with CABG	32	36	68	⊙	NR	NR	NR	11.2
Total Valve	68	89	157	⊙	⊙	⊙	⊙	9.3
Szwerc, Michael F.								
CABG without Valve	49	54	103	⊙	⊙	⊙	⊙	5.0
Valve without CABG	5	6	11	NR	NR	NR	NR	NR
Valve with CABG	9	5	14	NR	NR	NR	NR	NR
Total Valve	14	11	25	NR	NR	NR	NR	NR
Szydlowski, Gary W.								
CABG without Valve	67	81	148	⊙	⊙	⊙	⊙	4.8
Valve without CABG	37	39	76	⊙	⊙	⊙	⊙	5.5
Valve with CABG	23	17	40	⊙	⊙	⊙	⊙	6.4
Total Valve	60	56	116	⊙	⊙	⊙	⊙	5.8
Takara, James								
CABG without Valve	96	20	116	⊙	⊙	⊙	⊙	5.6
Valve without CABG	8	2	10	NR	NR	NR	NR	NR
Valve with CABG	16	3	19	NR	NR	NR	NR	NR
Total Valve	24	5	29	NR	NR	NR	NR	NR
Taylor, Bradley S.								
CABG without Valve	130	100	230	⊙	⊙	⊙	⊙	6.8
Valve without CABG	20	20	40	⊙	⊙	⊙	⊙	8.0
Valve with CABG	20	20	40	⊙	⊙	⊙	⊙	10.3
Total Valve	40	40	80	⊙	⊙	⊙	⊙	8.9

○ Lower than expected ⊙ Same as expected ● Higher than expected NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Thacker, Jnanesh J.								
CABG without Valve	1	0	1	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Thakur, Navin S.								
CABG without Valve	12	1	13	NR	NR	NR	NR	NR
Valve without CABG	1	0	1	NR	NR	NR	NR	NR
Valve with CABG	1	0	1	NR	NR	NR	NR	NR
Total Valve	2	0	2	NR	NR	NR	NR	NR
Theman, Terrill								
CABG without Valve	43	43	86	⊙	⊙	⊙	⊙	5.7
Valve without CABG	18	22	40	⊙	⊙	⊙	⊙	6.5
Valve with CABG	14	15	29	NR	NR	NR	NR	NR
Total Valve	32	37	69	⊙	⊙	⊙	⊙	6.9
Thompson, Richard B.								
CABG without Valve	56	131	187	⊙	⊙	⊙	⊙	5.9
Valve without CABG	6	21	27	NR	NR	NR	NR	NR
Valve with CABG	7	22	29	NR	NR	NR	NR	NR
Total Valve	13	43	56	⊙	⊙	⊙	⊙	7.8
Toyoda, Yoshiya								
CABG without Valve	11	31	42	●	●	⊙	⊙	6.6
Valve without CABG	1	3	4	NR	NR	NR	NR	NR
Valve with CABG	0	4	4	NR	NR	NR	NR	NR
Total Valve	1	7	8	NR	NR	NR	NR	NR
Vasilakis, Alexander								
CABG without Valve	76	78	154	⊙	⊙	⊙	⊙	5.8
Valve without CABG	28	22	50	⊙	⊙	⊙	●	7.3
Valve with CABG	18	19	37	⊙	⊙	⊙	⊙	9.3
Total Valve	46	41	87	⊙	⊙	⊙	●	8.1
Vasseur, Bernard G.								
CABG without Valve	50	42	92	⊙	⊙	⊙	⊙	5.8
Valve without CABG	16	10	26	NR	NR	NR	NR	NR
Valve with CABG	10	5	15	NR	NR	NR	NR	NR
Total Valve	26	15	41	⊙	⊙	⊙	⊙	7.0
Veluz, Jeffrey S.								
CABG without Valve	29	57	86	⊙	⊙	⊙	⊙	5.3
Valve without CABG	4	13	17	NR	NR	NR	NR	NR
Valve with CABG	2	5	7	NR	NR	NR	NR	NR
Total Valve	6	18	24	NR	NR	NR	NR	NR


⊙ Lower than expected
⊙ Same as expected
● Higher than expected
NR - Not rated (too few cases)


Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Von Koch, Lear								
CABG without Valve	82	82	164	⊙	⊙	⊙	⊙	5.8
Valve without CABG	49	62	111	⊙	⊙	⊙	⊙	6.4
Valve with CABG	30	32	62	⊙	⊙	○	○	6.2
Total Valve	79	94	173	⊙	⊙	○	⊙	6.4
Waciuma, John								
CABG without Valve	4	4	8	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Wechsler, Andrew S.								
CABG without Valve	15	21	36	⊙	NR	NR	NR	8.4
Valve without CABG	11	13	24	NR	NR	NR	NR	NR
Valve with CABG	7	4	11	NR	NR	NR	NR	NR
Total Valve	18	17	35	●	NR	NR	NR	10.2
Wei, Lawrence M.								
CABG without Valve	95	79	174	⊙	⊙	⊙	⊙	6.5
Valve without CABG	52	65	117	⊙	⊙	⊙	⊙	7.6
Valve with CABG	40	43	83	⊙	⊙	⊙	⊙	9.1
Total Valve	92	108	200	⊙	⊙	⊙	⊙	8.2
Weiss, Steven J.								
CABG without Valve	0	10	10	NR	NR	NR	NR	NR
Valve without CABG	0	1	1	NR	NR	NR	NR	NR
Valve with CABG	0	2	2	NR	NR	NR	NR	NR
Total Valve	0	3	3	NR	NR	NR	NR	NR
Wenger, Robert								
CABG without Valve	37	84	121	⊙	⊙	●	●	6.1
Valve without CABG	3	7	10	NR	NR	NR	NR	NR
Valve with CABG	8	7	15	NR	NR	NR	NR	NR
Total Valve	11	14	25	NR	NR	NR	NR	NR
West, David								
CABG without Valve	141	117	258	⊙	⊙	⊙	⊙	6.6
Valve without CABG	10	15	25	NR	NR	NR	NR	NR
Valve with CABG	21	22	43	⊙	⊙	⊙	⊙	8.9
Total Valve	31	37	68	⊙	⊙	⊙	⊙	8.1
Wilcox, Kenneth								
CABG without Valve	42	43	85	⊙	⊙	⊙	⊙	5.9
Valve without CABG	5	9	14	NR	NR	NR	NR	NR
Valve with CABG	8	8	16	NR	NR	NR	NR	NR
Total Valve	13	17	30	⊙	NR	NR	NR	NR

○ Lower than expected ⊙ Same as expected ● Higher than expected NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Woelfel, G. Frederick								
CABG without Valve	168	126	294	⊙	⊙	⊙	⊙	5.3
Valve without CABG	29	33	62	⊙	⊙	⊙	⊙	6.4
Valve with CABG	30	34	64	⊙	⊙	⊙	⊙	7.6
Total Valve	59	67	126	⊙	⊙	⊙	⊙	6.9
Woo, Y. Joseph								
CABG without Valve	79	81	160	⊙	⊙	⊙	⊙	7.0
Valve without CABG	51	87	138	⊙	●	⊙	⊙	7.8
Valve with CABG	25	28	53	⊙	⊙	⊙	⊙	11.6
Total Valve	76	115	191	⊙	⊙	⊙	⊙	8.9
Woods, Edward L.								
CABG without Valve	36	50	86	⊙	⊙	⊙	⊙	6.9
Valve without CABG	67	72	139	⊙	⊙	⊙	⊙	10.3
Valve with CABG	12	15	27	NR	NR	NR	NR	NR
Total Valve	79	87	166	⊙	⊙	⊙	⊙	11.0
Woody, Daniel J.								
CABG without Valve	1	0	1	NR	NR	NR	NR	NR
Valve without CABG	0	0	0	NR	NR	NR	NR	NR
Valve with CABG	0	0	0	NR	NR	NR	NR	NR
Total Valve	0	0	0	NR	NR	NR	NR	NR
Woolley, Daniel S. 								
CABG without Valve	68	63	131	●	●	⊙	⊙	6.3
Valve without CABG	14	17	31	⊙	NR	NR	NR	6.7
Valve with CABG	12	21	33	⊙	⊙	⊙	⊙	9.2
Total Valve	26	38	64	⊙	⊙	⊙	⊙	7.7
Wu, James								
CABG without Valve	79	77	156	⊙	⊙	⊙	⊙	4.5
Valve without CABG	29	30	59	⊙	⊙	⊙	⊙	6.2
Valve with CABG	28	18	46	⊙	⊙	⊙	⊙	5.8
Total Valve	57	48	105	⊙	⊙	⊙	⊙	6.0
Youdelman, Benjamin Abraham								
CABG without Valve	34	32	66	⊙	⊙	⊙	●	7.2
Valve without CABG	3	6	9	NR	NR	NR	NR	NR
Valve with CABG	5	4	9	NR	NR	NR	NR	NR
Total Valve	8	10	18	NR	NR	NR	NR	NR

 Indicates this surgeon has submitted comments regarding the data. These comments are included on the PHC4 website at www.phc4.org/reports/cabg/09/comments.htm

 Lower than expected
  Same as expected
  Higher than expected
 NR - Not rated (too few cases)

Surgeon Data

	Surgeon Data 2008-2009 (Two Years Combined)							
	Number of Cases			Mortality		Readmissions		Post-Surgical Length of Stay
	2008	2009	Total	In-Hospital	30-Day	7-Day	30-Day	
Zama, Nche								
CABG without Valve	96	68	164	⊙	⊙	⊙	○	4.7
Valve without CABG	15	26	41	⊙	⊙	⊙	⊙	5.8
Valve with CABG	15	16	31	⊙	⊙	⊙	⊙	6.8
Total Valve	30	42	72	⊙	⊙	⊙	⊙	6.2
Zehr, Kenton								
CABG without Valve	3	0	3	NR	NR	NR	NR	NR
Valve without CABG	4	0	4	NR	NR	NR	NR	NR
Valve with CABG	2	0	2	NR	NR	NR	NR	NR
Total Valve	6	0	6	NR	NR	NR	NR	NR
Zenati, Marco								
CABG without Valve	0	2	2	NR	NR	NR	NR	NR
Valve without CABG	0	4	4	NR	NR	NR	NR	NR
Valve with CABG	1	2	3	NR	NR	NR	NR	NR
Total Valve	1	6	7	NR	NR	NR	NR	NR

○ Lower than expected ⊙ Same as expected ● Higher than expected NR - Not rated (too few cases)



Pennsylvania Health Care Cost Containment Council

Joe Martin, Executive Director

225 Market Street, Suite 400, Harrisburg, PA 17101

Phone: 717-232-6787 • Fax: 717-232-3821

www.phc4.org

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



This report and other PHC4 publications are 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 Data Requests Unit at specialrequests@phc4.org or 717-232-6787.