



Cardiac Surgery in Pennsylvania 2005

Information about hospitals and cardiothoracic surgeons



Key Findings

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- In 2000, the in-hospital mortality rate for patients undergoing a CABG procedure (without a valve procedure) was 2.39 percent; the rate had declined to 1.98 percent in 2004, and further declined to 1.90 percent in 2005.
- The 7-day readmission rate for patients undergoing a CABG procedure (without a valve procedure) declined from 6.2 percent in 2000 to 5.2 percent in 2004 and then increased slightly to 5.5 percent in 2005. The 30-day readmission rate declined from 14.5 percent in 2000 to 13.2 percent in 2004 and then increased slightly to 13.6 percent in 2005.
- Between 2004 and 2005, the average number of open heart procedures performed by surgeons declined from 131 cases per surgeon to 121 cases per surgeon—down from 149 in 2000. The average number of open heart procedures per hospital declined from 376 cases per hospital to 346 cases per hospital—down from 499 in 2000.
- Patients who underwent both valve and CABG surgery during the same hospitalization had the highest mortality rates and the highest readmission rates, while those patients who underwent CABG, but did not have a valve procedure, had the lowest mortality and readmission rates (see table below).

Statewide Figures by Reporting Group

	Reporting Group			
	CABG without Valve	Valve without CABG	Valve with CABG	Total Valve
Number of Cases	11,875	2,846	2,610	5,456
In-Hospital Mortality Rate	1.9 %	3.0 %	7.5 %	5.2 %
30-Day Mortality Rate	2.3 %	3.6 %	8.6 %	6.0 %
7-Day Readmission Rate	5.5 %	6.6 %	7.8 %	7.2 %
30-Day Readmission Rate	13.6 %	17.8 %	19.2 %	18.4 %

- The top three reasons for readmission within 7 days of discharge after undergoing CABG and/or valve procedures were heart failure (21.2 percent), infections (16.9 percent), and cardiac dysrhythmias (10.6 percent). These were also the top three reasons for readmission within 30 days of discharge, with infections at 21.0 percent, heart failure at 20.1 percent, and cardiac dysrhythmias at 10.7 percent.

- In 2005, the average commercial payment and the average Medicare payment for CABG and/or valve surgeries were similar. However, there were differences in the number of days that patients with commercial insurance and those covered by Medicare stayed in the hospital. The differences in total length of stay appear to stem from differences in post-surgical length of stay, rather than differences in time spent in the hospital prior to surgery. The average payment reported is for the entire length of stay.

Average Payments and Length of Stay (LOS) by Reporting Group

Payor	Reporting Group							
	CABG without Valve		Valve without CABG		Valve with CABG		Total Valve	
	Average Payment	Average Post-Surgical LOS	Average Payment	Average Post-Surgical LOS	Average Payment	Average Post-Surgical LOS	Average Payment	Average Post-Surgical LOS
Commercial Insurance	\$30,247	5.6 days	\$41,651	6.7 days	\$47,471	8.6 days	\$43,500	7.3 days
Medicare	\$29,175	7.5 days	\$42,433	9.4 days	\$44,119	10.6 days	\$43,343	10.0 days

- In 2005, hospitals submitted data on the following hospital-acquired infections: urinary tract infections, surgical site infections, pneumonias, and bloodstream infections. Of the 17,331 patients who underwent CABG and/or valve surgery, hospitals reported that 755 (4.4 percent) contracted one or more of these infections during their stay. Patients who underwent both CABG surgery and a valve procedure during the same hospitalization were the most likely to contract a hospital-acquired infection (8.0 percent), and patients who underwent CABG with no valve procedures were the least likely to contract a hospital-acquired infection (3.6 percent). The following table displays the differences in outcomes for patients who did and those who did not contract an infection during their hospital stay.

Patients...	In-Hospital Mortality Rate	Average Post-Surgical Length of Stay	Average Hospital Charge	Average Commercial Payment	Average Medicare Payment
With a Hospital-Acquired Infection	13.5 %	21.7 days	\$328,992	\$65,514	\$57,883
Without a Hospital-Acquired Infection	2.4 %	7.1 days	\$122,454	\$32,764	\$32,911

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 (pronounced “cabbage”) is an invasive surgery that is typically recommended for severe blockages that are not treatable by other methods. The surgeon typically gains access to the heart by cutting the sternum (breast bone). Blood vessels most often are removed from the patient’s leg or detached from the chest wall and “grafted” to the blocked artery. Once the grafts have been attached, blood will flow through the new bypass vessel, avoiding the blockage completely.

CABG is performed by a cardiothoracic surgeon under general anesthesia and generally takes between two and six hours depending on the number of bypasses to be completed (patients might have more than one blockage, so several bypasses may be needed). 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. Blood is pumped in one direction through four chambers of the heart by the opening and closing of the heart valves. There are four heart valves – the tricuspid, mitral, aortic and pulmonic. Each heart valve is made up of “flaps” also called leaflets. A stenotic (narrowed) valve does not open completely, causing blood to flow through a smaller opening. An insufficient (loose or torn) valve does not close completely, causing regurgitation (backward flow) of blood into a heart chamber. 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. Examples of valve repair surgery are cutting apart the “flaps” or leaflets; suturing support structures around the valves; or attaching a ring-like device around the heart valve. Cardiothoracic surgeons typically gain access to the heart valves by cutting the sternum while the patient is under general anesthesia. Valve surgery can take between three and five hours. After valve surgery is complete, most patients stay in the hospital for several days and have a prolonged period of rehabilitation.

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 17,330 CABG and/or valve surgeries performed in Pennsylvania general acute care hospitals in 2005. PHC4 decided to expand its original CABG report by adding valve procedure cases in order to reflect a more complete picture of cardiac surgery in Pennsylvania.

Although most CABG/valve patients have an excellent prognosis for survival, results following surgery may vary among hospitals and surgeons. Thus, it is important to report data on the performance of Pennsylvania hospitals and surgeons who perform CABG/valve surgery. 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 hospital average charges, commercial insurance average payments and Medicare average payments for hospitals only. The reporting groups are divided as follows:

- *CABG without Valve* is comprised of patients who had at least one CABG procedure without any valve procedures during the same admission.
- *Valve without CABG* is comprised of patients who had at least one valve procedure without any CABG procedures during the same admission.
- *Valve with CABG* is comprised of patients who had at least one valve procedure and at least one CABG procedure during the same admission.
- *Total Valve* is comprised of 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 2005. In addition, hospital average charge, commercial insurance average payment and Medicare average payment are reported for hospitals. Charge and commercial insurance payment information is only reported for hospitals that had at least five cases in a particular reporting group. To meet current Centers for Medicare and Medicaid Services privacy guidelines, Medicare payment information is only reported for hospitals that had at least 13 cases in a particular 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. This figure reflects the experience the hospitals and surgeons have in treating CABG/valve patients. It is important to note, however, that some CABG/valve patients were not counted in this analysis (for example, those that underwent other complex procedures during the same hospital admission as the CABG/valve surgery), 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. Deaths 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. Some patients are discharged from the hospital following CABG/valve surgery and are then readmitted at a later date. For this analysis, readmissions were counted only if the patient was readmitted for particular reasons (as indicated by the principal diagnosis of the patient during the readmission; examples include infections, other heart-related conditions, etc.). Readmission rates are important from both a quality of care and cost standpoint. While some readmissions will always occur, high-quality care may lessen the need for subsequent hospitalizations.

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. At the same time, some complications may occur after the first 7 days; therefore, adding 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. How long a patient stays in the hospital may reflect upon the success of the treatment. 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. Length of stay is reported in average days.

Hospital average charge – The amount a hospital bills for a patient’s care is known as the charge. The charges do 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. Hospitals generally do not receive full reimbursement of their charges because insurance companies or other large purchasers of health care services typically negotiate discounts with hospitals. The amount paid to the hospital, therefore, will differ from the charge. Hospital charges often vary by regions of the state. Despite their limitations, charges are a commonly reported surrogate for health care costs. The average charge reported is for the entire length of stay.

Commercial insurance average payment – This is the average amount a hospital is paid for a commercially insured patient’s care. As noted above, the amount paid will be different from the charge. The average payment reported is for the entire length of stay.

Medicare average payment – This is the average amount a hospital is paid for a Medicare patient’s care. Again, the amount paid will be different from the charge. The average payment reported is for the entire length of stay.

Uses of the report

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

- Patients/consumers can use this report to aid in making decisions about where and with whom to seek treatment involving CABG/valve surgery. This report should be used in conjunction with a physician or other health care provider when making decisions about CABG/valve surgery.
- Group benefits purchasers/insurers can use this report as part of a process in determining which hospitals and surgeons provide quality care for employees, subscribers, members, or participants who need CABG/valve surgery.
- Health care providers can use this report as an aid in identifying opportunities for quality improvement and cost containment.
- Policymakers/public officials can use this report to enhance their understanding of health care issues, to ask insightful questions, to raise public awareness of important issues and to help constituents identify quality 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?

Pennsylvania hospitals are required by law to submit certain information to PHC4. 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, 2005 to December 31, 2005 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.

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. Pennsylvania's third-party commercial insurance companies provided commercial insurance payment data. 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 are required to provide 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 Web site at www.phc4.org.

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 also thanks the Pennsylvania Department of Health for providing information used in the 30-day mortality measure, the state's commercial insurers for the commercial payment data, and the Centers for Medicare and Medicaid Services for the Medicare payment data.

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 we are 95 percent confident 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 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 after accounting for how sick the patients were)
- higher than expected (meaning that the hospital or surgeon had more deaths than expected after accounting for how sick the patients were)

More data on PHC4's Web site

Additional information is posted on the PHC4 Web site at www.phc4.org:

- Numbers associated with the outcome figures and symbols
- Technical Notes

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 charge was trimmed and case-mix adjusted. Average payment was not trimmed or adjusted. Medicare average payment for hospitals with less than 13 cases was suppressed to meet current Centers for Medicare and Medicaid Services privacy guidelines. Average charge and average payment are for the entire length of stay.

For Surgeon Data Only - The actual number of CABG/valve surgeries performed may be underreported (e.g., procedures done in Veterans' hospitals and in other states are not included in this analysis). Total figures on all open heart surgeries performed (including CABG and/or valve) are available on PHC4's Web site.

Statewide Figures

CABG without Valve

Number of cases.....	11,875
In-hospital mortality rate	1.9%
30-day mortality rate.....	2.3%
7-day readmission rate	5.5%
30-day readmission rate	13.6%

Valve without CABG

Number of cases.....	2,846
In-hospital mortality rate	3.0%
30-day mortality rate.....	3.6%
7-day readmission rate	6.6%
30-day readmission rate	17.8%

Valve with CABG

Number of cases.....	2,610
In-hospital mortality rate	7.5%
30-day mortality rate.....	8.6%
7-day readmission rate	7.8%
30-day readmission rate	19.2%

Total Valve

Number of cases.....	5,456
In-hospital mortality rate	5.2%
30-day mortality rate.....	6.0%
7-day readmission rate	7.2%
30-day readmission rate	18.4%

Hospital Data

Hospital	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge	Average Payment	
		In-Hospital	30-Day	7-Day	30-Day			Commercial	Medicare
Abington Memorial									
CABG without Valve	153	●	●	●	●	7.2	\$212,544	\$36,144	\$36,185
Valve without CABG	123	●	●	●	●	8.6	\$226,698	\$59,241	\$44,738
Valve with CABG	46	●	●	●	●	10.5	\$286,552	NR	\$46,488
Total Valve	169	●	●	●	●	9.4	\$245,770	\$59,669	\$45,331
Albert Einstein									
CABG without Valve	116	●	●	●	●	6.1	\$213,420	\$75,440	\$44,535
Valve without CABG	19	NR	NR	NR	NR	NR	\$227,692	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR	\$376,164	NR	NR
Total Valve	25	NR	NR	NR	NR	NR	\$266,602	NR	NR
Allegheny General									
CABG without Valve	251	●	●	○	○	7.0	\$83,626	\$23,715	\$30,363
Valve without CABG	87	●	●	●	●	8.4	\$100,826	\$31,756	\$41,595
Valve with CABG	54	●	●	●	●	11.5	\$134,865	NR	\$55,872
Total Valve	141	●	●	●	●	9.6	\$117,401	\$33,972	\$47,714
Altoona Regional									
CABG without Valve	216	●	●	●	●	4.9	\$61,918	\$24,079	\$25,622
Valve without CABG	59	●	●	●	●	5.4	\$71,881	\$22,871	\$43,224
Valve with CABG	42	●	●	●	●	6.0	\$83,290	NR	\$35,249
Total Valve	101	●	●	●	●	5.7	\$77,733	\$23,645	\$39,063
Brandywine									
CABG without Valve	57	●	●	●	●	5.3	\$256,003	\$44,785	\$29,812
Valve without CABG	5	NR	NR	NR	NR	NR	\$282,631	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR	\$393,875	NR	NR
Total Valve	12	NR	NR	NR	NR	NR	\$343,265	NR	NR
Butler Memorial									
CABG without Valve	219	●	●	●	●	6.2	\$46,650	\$18,613	\$24,209
Valve without CABG	39	●	●	●	●	8.3	\$71,371	\$30,886	\$41,108
Valve with CABG	44	●	●	●	●	9.7	\$80,865	\$28,811	\$38,112
Total Valve	83	●	●	●	●	8.9	\$76,714	\$30,194	\$39,194
Chester County									
CABG without Valve	91	●	●	●	●	5.8	\$78,869	\$24,977	\$27,521
Valve without CABG	26	NR	NR	NR	NR	NR	\$85,021	\$31,377	NR
Valve with CABG	24	NR	NR	NR	NR	NR	\$117,307	NR	NR
Total Valve	50	●	●	●	●	6.9	\$99,966	\$33,343	\$35,987
Community/Scranton									
CABG without Valve	204	●	●	●	●	5.6	\$63,150	\$26,534	\$26,935
Valve without CABG	29	NR	NR	NR	NR	NR	\$84,382	\$29,469	NR
Valve with CABG	39	●	●	●	●	8.3	\$107,271	NR	\$38,811
Total Valve	68	●	●	●	●	7.3	\$96,118	\$35,888	\$37,566

● Lower than expected

○ Same as expected

● Higher than expected

NR Not rated (too few cases)

Hospital Data

Hospital	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge	Average Payment	
		In-Hospital	30-Day	7-Day	30-Day			Commercial	Medicare
Conemaugh Valley Memorial									
CABG without Valve	309	●	●	●	●	4.8	\$62,053	\$23,476	\$28,233
Valve without CABG	50	●	●	●	●	5.4	\$89,906	\$40,429	\$36,666
Valve with CABG	64	●	●	●	●	6.8	\$106,836	\$35,368	\$38,863
Total Valve	114	●	●	●	●	6.1	\$97,952	\$38,482	\$37,914
Crozer-Chester									
CABG without Valve	102	●	●	●	●	5.8	\$240,743	\$63,414	\$37,062
Valve without CABG	18	NR	NR	NR	NR	NR	\$329,205	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR	\$387,862	NR	NR
Total Valve	29	NR	NR	NR	NR	NR	\$351,412	NR	\$40,150
Doylestown									
CABG without Valve	182	●	●	●	●	5.6	\$89,984	\$25,243	\$29,149
Valve without CABG	34	●	●	●	●	5.7	\$91,444	NR	NR
Valve with CABG	63	●	●	●	●	7.5	\$120,101	\$32,675	\$42,712
Total Valve	97	●	●	●	●	6.5	\$107,699	\$30,126	\$41,376
DuBois Regional									
CABG without Valve	164	●	●	●	●	4.9	\$72,455	\$29,691	\$24,051
Valve without CABG	20	NR	NR	NR	NR	NR	\$101,809	NR	NR
Valve with CABG	31	●	●	NR	NR	NR	\$96,803	NR	\$33,226
Total Valve	51	●	●	●	●	5.4	\$96,698	\$52,879	\$33,396
Easton									
CABG without Valve	95	●	●	●	●	6.3	\$184,433	\$71,804	\$40,066
Valve without CABG	24	NR	NR	NR	NR	NR	\$201,048	NR	\$53,254
Valve with CABG	31	●	NR	NR	NR	NR	\$276,103	NR	\$64,860
Total Valve	55	●	●	NR	NR	8.7	\$239,594	NR	\$59,765
Frankford									
CABG without Valve	231	●	●	●	●	6.5	\$108,243	\$29,625	\$37,934
Valve without CABG	21	NR	NR	NR	NR	NR	\$124,020	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR	\$130,530	NR	NR
Total Valve	40	●	●	●	●	8.2	\$122,486	NR	\$50,585
Geisinger Wilkes-Barre									
CABG without Valve	122	●	●	●	●	4.9	\$74,050	\$25,155	\$24,706
Valve without CABG	14	NR	NR	NR	NR	NR	\$93,957	NR	NR
Valve with CABG	23	NR	NR	NR	NR	NR	\$96,843	NR	\$31,740
Total Valve	37	●	●	●	●	5.5	\$93,523	NR	\$32,118
Geisinger Wyoming Valley									
CABG without Valve	77	●	●	●	●	5.4	\$88,802	\$23,089	\$22,479
Valve without CABG	20	NR	NR	NR	NR	NR	\$95,604	\$29,509	NR
Valve with CABG	26	NR	NR	NR	NR	NR	\$129,011	NR	NR
Total Valve	46	●	●	●	●	6.6	\$113,091	\$29,937	\$36,361

● Lower than expected

● Same as expected

● Higher than expected

NR Not rated (too few cases)

Hospital Data

Hospital	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge	Average Payment	
		In-Hospital	30-Day	7-Day	30-Day			Commercial	Medicare
Geisinger/Danville									
CABG without Valve	241	●	●	●	●	5.0	\$81,877	\$28,688	\$32,154
Valve without CABG	84	●	●	●	●	7.6	\$136,391	\$36,024	\$46,311
Valve with CABG	60	●	●	●	●	8.9	\$148,898	\$71,964	\$49,813
Total Valve	144	●	●	●	●	8.2	\$141,638	\$47,525	\$47,976
Good Samaritan/Lebanon*									
CABG without Valve	69	●	●	●	●	5.4	\$78,980	\$30,172	\$23,645
Valve without CABG	2	NR	NR	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR	NR	NR	NR
Graduate									
CABG without Valve	43	●	NR	NR	NR	5.2	\$241,913	\$71,486	\$39,839
Valve without CABG	8	NR	NR	NR	NR	NR	\$340,746	NR	NR
Valve with CABG	9	NR	NR	NR	NR	NR	\$435,730	NR	NR
Total Valve	17	NR	NR	NR	NR	NR	\$370,265	NR	NR
Hahnemann University									
CABG without Valve	153	●	●	●	●	8.1	\$311,720	\$78,312	\$49,855
Valve without CABG	41	●	NR	NR	NR	9.9	\$378,167	\$106,181	\$74,606
Valve with CABG	33	●	NR	NR	NR	12.3	\$414,282	NR	\$65,822
Total Valve	74	●	●	●	●	11.0	\$380,833	\$75,739	\$69,760
Hamot									
CABG without Valve	369	●	●	●	●	5.7	\$99,436	\$24,777	\$24,090
Valve without CABG	78	●	●	●	●	6.8	\$109,647	\$26,163	\$33,481
Valve with CABG	65	●	●	●	●	8.6	\$147,651	\$30,930	\$33,449
Total Valve	143	●	●	●	●	7.6	\$129,029	\$27,680	\$33,464
Holy Spirit									
CABG without Valve	290	●	●	●	●	5.1	\$72,548	\$21,869	\$23,861
Valve without CABG	29	NR	NR	NR	NR	NR	\$82,319	\$21,527	\$29,332
Valve with CABG	40	●	●	●	●	8.7	\$105,332	NR	\$38,434
Total Valve	69	●	●	●	●	7.5	\$93,606	\$23,589	\$34,368
Hospital University PA									
CABG without Valve	145	●	●	●	●	6.6	\$187,727	\$60,733	\$44,682
Valve without CABG	239	●	●	●	●	7.0	\$204,374	\$66,440	\$62,518
Valve with CABG	82	●	●	●	●	10.0	\$287,837	NR	\$70,607
Total Valve	321	●	●	●	●	7.9	\$229,610	\$65,384	\$65,098
Jefferson Regional									
CABG without Valve	248	●	●	●	●	6.4	\$43,104	\$18,009	\$23,490
Valve without CABG	36	●	●	●	●	7.1	\$71,364	\$23,726	\$36,186
Valve with CABG	83	●	●	●	●	8.9	\$83,326	\$26,372	\$33,682
Total Valve	119	●	●	●	●	7.9	\$77,440	\$25,427	\$34,483

* Started performing CABG/valve procedures in Quarter 2, 2005.

● Lower than expected

○ Same as expected

● Higher than expected

NR Not rated (too few cases)

Hospital Data

Hospital	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge	Average Payment	
		In-Hospital	30-Day	7-Day	30-Day			Commercial	Medicare
Lancaster General									
CABG without Valve	298	●	●	●	●	5.7	\$56,236	\$37,482	\$26,597
Valve without CABG	107	●	●	●	●	6.9	\$70,082	\$37,344	\$32,865
Valve with CABG	99	●	●	●	●	8.3	\$90,312	\$63,513	\$37,690
Total Valve	206	●	●	●	●	7.5	\$79,997	\$47,584	\$35,401
Lancaster Regional									
CABG without Valve	61	●	●	●	●	7.1	\$102,313	\$34,432	\$28,430
Valve without CABG	16	NR	NR	NR	NR	NR	\$118,623	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR	\$129,645	NR	NR
Total Valve	34	●	●	NR	NR	7.9	\$122,017	\$32,175	\$51,793
Lehigh Valley									
CABG without Valve	451	●	●	●	●	4.7	\$93,609	\$26,178	\$28,060
Valve without CABG	107	●	●	●	●	5.6	\$115,815	\$34,819	\$36,546
Valve with CABG	78	●	●	●	●	6.7	\$160,808	NR	\$45,352
Total Valve	185	●	●	●	●	6.1	\$138,456	\$34,750	\$40,873
Lehigh Valley/Muhlenberg									
CABG without Valve	71	●	●	●	●	3.5	\$95,530	\$37,368	\$27,377
Valve without CABG	25	NR	NR	NR	NR	NR	\$93,977	NR	NR
Valve with CABG	22	NR	NR	NR	NR	NR	\$143,132	NR	NR
Total Valve	47	●	●	●	●	3.9	\$118,336	\$78,295	\$34,575
Main Line Bryn Mawr									
CABG without Valve	86	●	●	●	●	6.3	\$145,360	\$35,231	\$31,299
Valve without CABG	28	NR	NR	NR	NR	NR	\$163,681	\$49,391	NR
Valve with CABG	20	NR	NR	NR	NR	NR	\$198,147	NR	NR
Total Valve	48	●	●	●	●	7.8	\$178,328	\$49,391	\$41,356
Main Line Lankenau									
CABG without Valve	299	●	●	●	●	5.4	\$127,049	\$33,549	\$30,812
Valve without CABG	123	●	●	●	●	6.1	\$180,112	\$51,506	\$40,987
Valve with CABG	57	●	●	●	●	9.2	\$216,456	\$49,897	\$48,363
Total Valve	180	●	●	●	●	7.1	\$193,440	\$51,228	\$44,318
Main Line Paoli									
CABG without Valve	105	●	●	●	●	6.5	\$135,386	\$46,123	\$28,859
Valve without CABG	23	NR	NR	NR	NR	NR	\$170,802	NR	NR
Valve with CABG	20	NR	NR	NR	NR	NR	\$262,053	NR	NR
Total Valve	43	●	●	●	●	8.3	\$208,367	\$48,980	\$48,798
Medical Center Beaver									
CABG without Valve	206	●	●	●	●	5.7	\$49,663	\$21,903	\$23,926
Valve without CABG	43	●	●	●	●	7.2	\$62,728	\$21,803	\$28,226
Valve with CABG	26	NR	NR	NR	NR	NR	\$66,644	NR	NR
Total Valve	69	●	●	●	●	7.4	\$66,371	\$23,529	\$28,722

● Lower than expected

○ Same as expected

● Higher than expected

NR Not rated (too few cases)

Hospital Data

Hospital	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge	Average Payment	
		In-Hospital	30-Day	7-Day	30-Day			Commercial	Medicare
Mercy Fitzgerald									
CABG without Valve	90	●	●	○	○	7.0	\$220,554	\$45,374	\$43,073
Valve without CABG	4	NR	NR	NR	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR	NR	NR	NR
Total Valve	8	NR	NR	NR	NR	NR	\$229,135	NR	NR
Mercy Pittsburgh									
CABG without Valve	256	○	○	○	○	6.9	\$77,721	\$25,315	\$30,154
Valve without CABG	35	○	○	○	○	9.1	\$113,136	\$43,944	NR
Valve with CABG	56	○	○	○	○	11.0	\$118,284	\$40,987	\$47,548
Total Valve	91	○	○	○	○	9.9	\$114,731	\$42,124	\$47,939
Mercy/Scranton									
CABG without Valve	221	○	○	○	○	6.3	\$68,263	\$25,851	\$26,388
Valve without CABG	64	○	○	○	○	6.6	\$86,156	\$33,263	\$32,352
Valve with CABG	66	○	○	○	○	8.3	\$106,098	\$35,792	\$37,252
Total Valve	130	○	○	○	○	7.3	\$96,237	\$34,053	\$34,802
Milton S Hershey									
CABG without Valve	196	○	○	○	○	5.5	\$55,462	\$25,443	\$31,553
Valve without CABG	89	○	○	○	○	6.7	\$65,795	\$27,462	\$48,285
Valve with CABG	64	○	○	○	○	7.9	\$84,448	\$29,246	\$46,315
Total Valve	153	○	○	○	○	7.2	\$74,917	\$27,987	\$47,332
Pennsylvania									
CABG without Valve	91	○	○	○	○	6.5	\$171,561	\$41,911	\$38,991
Valve without CABG	18	NR	NR	NR	NR	NR	\$172,048	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR	\$272,180	NR	\$57,608
Total Valve	39	○	NR	NR	NR	8.3	\$213,294	\$46,424	\$53,140
Phoenixville									
CABG without Valve	60	○	○	○	○	5.5	\$109,647	\$20,082	NR
Valve without CABG	6	NR	NR	NR	NR	NR	\$110,247	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR	\$150,344	NR	NR
Total Valve	13	NR	NR	NR	NR	NR	\$129,429	NR	NR
Pinnacle Health									
CABG without Valve	465	●	●	●	●	6.1	\$74,367	\$22,722	\$28,773
Valve without CABG	72	○	○	○	○	7.3	\$84,774	\$40,101	\$35,433
Valve with CABG	73	○	○	○	○	8.0	\$102,252	\$37,194	\$36,652
Total Valve	145	○	○	○	○	7.6	\$93,281	\$38,959	\$36,092
Reading									
CABG without Valve	176	○	○	○	○	5.8	\$59,258	\$50,740	\$27,797
Valve without CABG	30	○	○	NR	NR	NR	\$64,102	NR	\$36,210
Valve with CABG	47	○	○	○	○	7.6	\$81,382	\$77,205	\$36,768
Total Valve	77	○	○	○	○	7.0	\$72,492	\$68,147	\$36,586

○ Lower than expected

○ Same as expected

● Higher than expected

NR Not rated (too few cases)

Hospital Data

Hospital	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge	Average Payment	
		In-Hospital	30-Day	7-Day	30-Day			Commercial	Medicare
Robert Packer									
CABG without Valve	204	●	●	●	●	5.2	\$43,222	\$27,097	\$24,087
Valve without CABG	36	●	NR	NR	NR	6.1	\$56,676	\$35,611	\$35,523
Valve with CABG	35	●	NR	NR	NR	7.4	\$69,440	NR	\$39,208
Total Valve	71	●	NR	NR	NR	6.7	\$63,148	\$35,611	\$37,606
Sacred Heart/Allentown									
CABG without Valve	40	●	●	●	●	5.2	\$72,152	\$22,917	\$26,130
Valve without CABG	7	NR	NR	NR	NR	NR	\$95,048	NR	NR
Valve with CABG	9	NR	NR	NR	NR	NR	\$102,501	NR	NR
Total Valve	16	NR	NR	NR	NR	NR	\$98,273	NR	NR
Saint Vincent Health									
CABG without Valve	387	●	●	●	●	5.0	\$123,501	\$23,767	\$26,523
Valve without CABG	48	●	●	●	●	6.1	\$136,422	\$28,352	\$32,507
Valve with CABG	69	●	●	●	●	7.6	\$170,751	\$27,065	\$37,163
Total Valve	117	●	●	●	●	6.8	\$154,608	\$27,767	\$35,487
Sharon Regional									
CABG without Valve	83	●	●	●	●	6.3	\$69,728	\$23,591	\$27,722
Valve without CABG	4	NR	NR	NR	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR	NR	NR	NR
Total Valve	6	NR	NR	NR	NR	NR	\$84,367	NR	NR
St Clair Memorial									
CABG without Valve	183	●	●	●	●	5.5	\$52,174	\$19,693	\$22,749
Valve without CABG	21	NR	NR	NR	NR	NR	\$77,738	NR	NR
Valve with CABG	32	●	●	NR	NR	6.6	\$82,668	NR	NR
Total Valve	53	●	●	●	●	6.8	\$79,854	\$28,971	\$29,982
St Joseph/Reading									
CABG without Valve	89	●	●	●	●	5.9	\$65,572	\$26,369	\$34,058
Valve without CABG	13	NR	NR	NR	NR	NR	\$80,715	NR	NR
Valve with CABG	16	NR	NR	NR	NR	NR	\$102,936	NR	NR
Total Valve	29	NR	NR	NR	NR	NR	\$91,793	NR	\$37,142
St Luke's/Bethlehem									
CABG without Valve	230	●	●	●	●	6.1	\$77,702	\$22,399	\$33,926
Valve without CABG	48	●	●	●	●	6.9	\$77,128	\$27,370	\$42,798
Valve with CABG	63	●	●	●	●	10.2	\$117,328	\$35,244	\$48,926
Total Valve	111	●	●	●	●	8.4	\$98,209	\$31,307	\$46,533
St Mary									
CABG without Valve	250	●	●	●	●	5.2	\$83,197	\$23,759	\$27,104
Valve without CABG	26	NR	NR	NR	NR	NR	\$148,455	NR	\$37,828
Valve with CABG	52	●	●	●	●	7.9	\$159,565	NR	\$42,133
Total Valve	78	●	●	●	●	7.0	\$152,676	\$54,497	\$40,534

● Lower than expected

○ Same as expected

● Higher than expected

NR Not rated (too few cases)

Hospital Data

Hospital	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge	Average Payment	
		In-Hospital	30-Day	7-Day	30-Day			Commercial	Medicare
Temple Lower Bucks									
CABG without Valve	74	●	●	●	●	7.1	\$213,873	\$97,504	\$29,925
Valve without CABG	4	NR	NR	NR	NR	NR	NR	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR	\$368,605	NR	NR
Total Valve	10	NR	NR	NR	NR	NR	\$354,855	NR	NR
Temple University									
CABG without Valve	114	●	●	●	●	6.7	\$363,988	\$57,533	\$41,039
Valve without CABG	37	●	●	●	●	7.6	\$403,179	\$53,127	NR
Valve with CABG	18	NR	NR	NR	NR	NR	\$506,318	NR	NR
Total Valve	55	●	●	●	●	8.5	\$437,115	\$104,961	\$71,389
Thomas Jefferson Univ									
CABG without Valve	173	●	●	●	●	7.6	\$201,715	\$50,282	\$41,496
Valve without CABG	46	●	●	●	●	8.9	\$246,052	NR	\$70,401
Valve with CABG	27	NR	NR	NR	NR	NR	\$292,661	NR	\$63,893
Total Valve	73	●	●	●	●	10.1	\$261,378	\$46,009	\$67,798
Univ PA/Presbyterian									
CABG without Valve	221	●	●	●	●	6.5	\$128,411	\$45,432	\$34,329
Valve without CABG	159	●	●	●	●	7.4	\$150,087	\$44,825	\$44,746
Valve with CABG	86	●	●	NR	NR	9.2	\$194,176	NR	\$54,470
Total Valve	245	●	●	●	●	8.1	\$164,432	\$45,394	\$48,845
UPMC Passavant									
CABG without Valve	150	●	●	●	●	6.1	\$82,777	\$24,834	\$21,818
Valve without CABG	19	NR	NR	NR	NR	NR	\$105,639	NR	NR
Valve with CABG	28	NR	NR	NR	NR	NR	\$118,783	NR	NR
Total Valve	47	●	●	●	●	7.6	\$112,190	NR	\$28,141
UPMC Presby Shadyside									
CABG without Valve	805	●	●	●	●	6.5	\$159,212	\$34,803	\$33,865
Valve without CABG	221	●	●	●	●	7.7	\$202,169	\$52,470	\$56,480
Valve with CABG	271	●	●	●	●	9.4	\$255,797	\$56,164	\$51,563
Total Valve	492	●	●	●	●	8.5	\$231,297	\$53,685	\$53,349
Washington									
CABG without Valve	162	●	●	●	●	6.1	\$68,806	\$31,113	\$25,906
Valve without CABG	34	●	●	●	●	6.9	\$90,772	NR	\$29,505
Valve with CABG	45	●	●	●	●	9.9	\$117,691	NR	\$36,687
Total Valve	79	●	●	●	●	8.3	\$105,664	\$39,305	\$33,775
Western Pennsylvania									
CABG without Valve	387	●	●	●	●	6.1	\$100,951	\$25,184	\$34,540
Valve without CABG	70	●	●	●	●	8.2	\$114,891	\$33,808	NR
Valve with CABG	93	●	●	●	●	8.6	\$147,187	\$46,606	\$45,690
Total Valve	163	●	●	●	●	8.3	\$132,678	\$37,880	\$48,009

● Lower than expected

○ Same as expected

● Higher than expected

NR Not rated (too few cases)

Hospital Data

Hospital	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay	Average Hospital Charge	Average Payment	
		In-Hospital	30-Day	7-Day	30-Day			Commercial	Medicare
Westmoreland Regional									
CABG without Valve	309	●	●	●	●	5.2	\$40,542	\$20,149	\$23,993
Valve without CABG	41	●	●	●	●	5.6	\$48,676	\$18,507	NR
Valve with CABG	65	●	●	●	●	7.0	\$69,150	\$33,401	\$36,265
Total Valve	106	●	●	●	●	6.3	\$60,258	\$27,815	\$34,695
Williamsport									
CABG without Valve	167	●	●	●	●	5.2	\$58,764	\$27,933	\$24,284
Valve without CABG	37	●	●	●	●	6.3	\$75,379	NR	\$30,877
Valve with CABG	34	●	●	●	●	7.8	\$93,915	NR	\$39,226
Total Valve	71	●	●	●	●	7.0	\$83,680	\$39,032	\$35,343
WVHCS									
CABG without Valve	232	●	●	●	●	4.8	\$58,340	\$33,005	\$25,576
Valve without CABG	39	●	●	●	●	6.5	\$84,844	\$40,751	\$29,985
Valve with CABG	31	●	●	●	●	7.3	\$95,443	NR	\$43,354
Total Valve	70	●	●	●	●	6.9	\$90,814	\$39,602	\$36,533
York									
CABG without Valve	336	●	●	●	●	5.8	\$50,470	\$47,141	\$30,925
Valve without CABG	41	●	●	●	●	7.0	\$65,731	\$55,808	\$38,225
Valve with CABG	46	●	●	●	●	8.3	\$85,039	NR	\$40,280
Total Valve	87	●	●	●	●	7.6	\$75,225	\$58,349	\$39,393

Statewide						
CABG without Valve	11,875				5.8	\$100,607
Valve without CABG	2,846				7.0	\$138,786
Valve with CABG	2,610				8.4	\$156,239
Total Valve	5,456				7.6	\$147,004
						\$30,247
						\$29,175
						\$41,651
						\$42,433
						\$47,471
						\$44,119
						\$43,500
						\$43,343

○ Lower than expected

● Same as expected

● Higher than expected

NR Not rated (too few cases)

Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Acker, Michael A.						
CABG without Valve	48	○	NR	NR	NR	7.4
Valve without CABG	99	○	○	○	○	6.5
Valve with CABG	36	●	NR	NR	NR	NR
Total Valve	135	○	○	○	○	7.5
Addonizio, V. Paul						
CABG without Valve	85	○	○	○	○	7.2
Valve without CABG	119	○	○	○	○	8.6
Valve with CABG	39	○	○	○	○	10.8
Total Valve	158	○	○	○	○	9.4
Alspaugh, Dahlia M.						
CABG without Valve	34	○	○	○	○	7.4
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR
Anastasi, John S.						
CABG without Valve	89	○	○	○	●	4.8
Valve without CABG	50	○	●	●	●	5.3
Valve with CABG	31	○	○	NR	NR	NR
Total Valve	81	○	○	○	○	5.7
Anene, Charles						
CABG without Valve	41	○	○	○	●	7.5
Valve without CABG	2	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR
Total Valve	6	NR	NR	NR	NR	NR
Angelico, Richard J.						
CABG without Valve	53	○	○	○	○	6.6
Valve without CABG	12	NR	NR	NR	NR	NR
Valve with CABG	14	NR	NR	NR	NR	NR
Total Valve	26	NR	NR	NR	NR	NR
Aufiero, Thomas X.						
CABG without Valve	70	○	○	○	○	5.3
Valve without CABG	27	NR	NR	NR	NR	NR
Valve with CABG	16	NR	NR	NR	NR	NR
Total Valve	43	○	●	○	○	7.4
Bavaria, Joseph E.						
CABG without Valve	13	NR	NR	NR	NR	NR
Valve without CABG	67	○	○	○	○	6.8
Valve with CABG	22	NR	NR	NR	NR	NR
Total Valve	89	○	○	○	○	7.6

○ Lower than expected

○ Same as expected

● Higher than expected

NR Not rated (too few cases)

Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Benkart, Daniel H.						
CABG without Valve	23	NR	NR	NR	NR	NR
Valve without CABG	24	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR
Total Valve	28	NR	NR	NR	NR	NR
Bennett, Robert D.						
CABG without Valve	121	●	●	●	●	6.6
Valve without CABG	10	NR	NR	NR	NR	NR
Valve with CABG	34	●	●	●	●	11.1
Total Valve	44	●	●	●	●	9.4
Benoit, Charles H.						
CABG without Valve	74	●	●	●	●	5.1
Valve without CABG	20	NR	NR	NR	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR
Total Valve	41	●	●	●	●	7.3
Bogar, Linda J.						
CABG without Valve	93	●	●	●	●	6.2
Valve without CABG	17	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR
Total Valve	21	NR	NR	NR	NR	NR
Boova, Robert S.						
CABG without Valve	83	●	●	●	●	6.3
Valve without CABG	27	NR	NR	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR
Total Valve	46	●	●	●	●	7.8
Bridges, Charles R.						
CABG without Valve	60	●	●	●	●	6.3
Valve without CABG	14	NR	NR	NR	NR	NR
Valve with CABG	14	NR	NR	NR	NR	NR
Total Valve	28	NR	NR	NR	NR	NR
Buenaventura, Percival O.						
CABG without Valve	6	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Burlingame, Mark W.						
CABG without Valve	102	●	●	●	●	5.5
Valve without CABG	40	●	●	●	●	6.6
Valve with CABG	39	●	●	●	●	7.8
Total Valve	79	●	●	●	●	7.1

○ Lower than expected

● Same as expected

● Higher than expected

NR Not rated (too few cases)

Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Butler, Michael D.						
CABG without Valve	85	●	●	●	●	6.2
Valve without CABG	10	NR	NR	NR	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR
Total Valve	28	NR	NR	NR	NR	NR
Campbell, David B.						
CABG without Valve	25	NR	NR	NR	NR	NR
Valve without CABG	11	NR	NR	NR	NR	NR
Valve with CABG	15	NR	NR	NR	NR	NR
Total Valve	26	NR	NR	NR	NR	NR
Cardone, John C.						
CABG without Valve	37	●	●	●	●	5.6
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	8	NR	NR	NR	NR	NR
Total Valve	9	NR	NR	NR	NR	NR
Casale, Alfred S.						
CABG without Valve	43	●	●	●	●	5.5
Valve without CABG	14	NR	NR	NR	NR	NR
Valve with CABG	20	NR	NR	NR	NR	NR
Total Valve	34	●	●	●	●	6.2
Casey, Kevin						
CABG without Valve	55	●	●	●	●	7.3
Valve without CABG	19	NR	NR	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR
Total Valve	38	●	●	●	●	9.2
Childers, Henry E.						
CABG without Valve	138	●	●	●	●	5.1
Valve without CABG	11	NR	NR	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR
Total Valve	30	●	●	NR	NR	NR
Cope, Jeffrey T.						
CABG without Valve	118	●	●	●	●	5.9
Valve without CABG	31	●	●	●	●	7.2
Valve with CABG	31	●	●	NR	NR	NR
Total Valve	62	●	●	●	●	7.6
Crouch, Ray D.						
CABG without Valve	23	NR	NR	NR	NR	NR
Valve without CABG	9	NR	NR	NR	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR
Total Valve	16	NR	NR	NR	NR	NR

○ Lower than expected

● Same as expected

● Higher than expected

NR Not rated (too few cases)

Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Culig, Michael H.						
CABG without Valve	97	●	●	●	●	5.8
Valve without CABG	19	NR	NR	NR	NR	NR
Valve with CABG	37	●	●	●	●	7.1
Total Valve	56	●	●	●	●	7.4
Darrell, John C.						
CABG without Valve	75	●	●	●	●	5.5
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR
Dasika, Uday K.						
CABG without Valve	11	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR
Valve with CABG	8	NR	NR	NR	NR	NR
Total Valve	10	NR	NR	NR	NR	NR
Davliakos, George P.						
CABG without Valve	106	●	●	●	●	6.1
Valve without CABG	22	NR	NR	NR	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR
Total Valve	40	●	●	●	●	9.3
Dean, David A.						
CABG without Valve	48	●	●	●	●	6.2
Valve without CABG	2	NR	NR	NR	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR
Total Valve	9	NR	NR	NR	NR	NR
Deshpande, Anil S.						
CABG without Valve	50	●	●	●	●	5.4
Valve without CABG	6	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR
Total Valve	17	NR	NR	NR	NR	NR
Devineni, Rajsekhar						
CABG without Valve	174	●	●	●	●	4.9
Valve without CABG	27	NR	NR	NR	NR	NR
Valve with CABG	34	●	●	●	●	6.1
Total Valve	61	●	●	●	●	5.6
Diehl, James T.						
CABG without Valve	72	●	●	●	●	6.8
Valve without CABG	32	●	NR	NR	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR
Total Valve	53	●	●	●	●	10.0

● Lower than expected

○ Same as expected

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NR Not rated (too few cases)

Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
DiMarco Jr., Ross F.						
CABG without Valve	118	●	●	●	●	7.1
Valve without CABG	19	NR	NR	NR	NR	NR
Valve with CABG	33	●	●	NR	NR	NR
Total Valve	52	●	●	●	●	9.2
DiSesa, Verdi J.						
CABG without Valve	50	●	●	●	●	5.6
Valve without CABG	22	NR	NR	NR	NR	NR
Valve with CABG	14	NR	NR	NR	NR	NR
Total Valve	36	●	●	●	●	6.6
El-Khatib, Hazem N.						
CABG without Valve	107	●	●	●	●	6.4
Valve without CABG	16	NR	NR	NR	NR	NR
Valve with CABG	26	NR	NR	NR	NR	NR
Total Valve	42	●	●	●	●	8.2
Entwistle III, John W.						
CABG without Valve	39	●	NR	NR	NR	7.6
Valve without CABG	5	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR
Total Valve	9	NR	NR	NR	NR	NR
Fall, Stephen M.						
CABG without Valve	71	●	●	●	○	5.1
Valve without CABG	11	NR	NR	NR	NR	NR
Valve with CABG	14	NR	NR	NR	NR	NR
Total Valve	25	NR	NR	NR	NR	NR
Fazi, Burt						
CABG without Valve	127	●	●	●	●	5.1
Valve without CABG	9	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR
Total Valve	20	NR	NR	NR	NR	NR
Feaster III, Marshall M.						
CABG without Valve	74	●	●	○	○	6.5
Valve without CABG	11	NR	NR	NR	NR	NR
Valve with CABG	13	NR	NR	NR	NR	NR
Total Valve	24	NR	NR	NR	NR	NR
Ferdinand, Francis D.						
CABG without Valve	66	●	●	●	●	6.1
Valve without CABG	7	NR	NR	NR	NR	NR
Valve with CABG	8	NR	NR	NR	NR	NR
Total Valve	15	NR	NR	NR	NR	NR

○ Lower than expected

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Fitzgibbon, Leo D.						
CABG without Valve	88	●	●	●	●	5.6
Valve without CABG	13	NR	NR	NR	NR	NR
Valve with CABG	14	NR	NR	NR	NR	NR
Total Valve	27	NR	NR	NR	NR	NR
Fulton, Jeffrey A.						
CABG without Valve	89	●	●	●	●	6.4
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR
Total Valve	14	NR	NR	NR	NR	NR
Furukawa, Satoshi						
CABG without Valve	45	●	●	●	●	6.1
Valve without CABG	16	NR	NR	NR	NR	NR
Valve with CABG	12	NR	NR	NR	NR	NR
Total Valve	28	NR	NR	NR	NR	NR
Garzia, Fernando M.						
CABG without Valve	61	●	●	●	●	3.5
Valve without CABG	22	NR	NR	NR	NR	NR
Valve with CABG	22	NR	NR	NR	NR	NR
Total Valve	44	●	●	●	●	4.1
Goldberg, Aron T.						
CABG without Valve	40	●	●	●	●	4.5
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR
Goldman, Scott M.						
CABG without Valve	36	●	●	●	●	5.5
Valve without CABG	100	●	●	●	●	5.7
Valve with CABG	30	●	NR	NR	NR	NR
Total Valve	130	●	●	●	●	6.7
Grunewald, Karl E.						
CABG without Valve	101	●	●	●	●	5.8
Valve without CABG	18	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR
Total Valve	29	NR	NR	NR	NR	NR
Guerraty, Albert J.						
CABG without Valve	67	●	●	●	●	5.6
Valve without CABG	10	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR
Total Valve	21	NR	NR	NR	NR	NR

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Hargrove III, W. Clark						
CABG without Valve	69	●	NR	NR	NR	6.5
Valve without CABG	135	●	●	●	●	7.5
Valve with CABG	35	●	NR	NR	NR	10.1
Total Valve	170	●	●	●	●	8.3
Harostock, Michael						
CABG without Valve	125	●	●	●	●	4.8
Valve without CABG	31	●	●	●	●	6.6
Valve with CABG	21	NR	NR	NR	NR	NR
Total Valve	52	●	●	●	●	7.1
Hattler, Brack G.						
CABG without Valve	5	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR
Haupt, Hans M.						
CABG without Valve	61	●	●	●	●	5.5
Valve without CABG	6	NR	NR	NR	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR
Total Valve	13	NR	NR	NR	NR	NR
Haybron, David M.						
CABG without Valve	110	●	●	●	●	6.1
Valve without CABG	31	●	●	●	●	7.5
Valve with CABG	29	NR	NR	NR	NR	NR
Total Valve	60	●	●	●	●	8.0
Herlan, David B.						
CABG without Valve	6	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Hetzler, Norman A.						
CABG without Valve	93	●	●	●	●	4.7
Valve without CABG	9	NR	NR	NR	NR	NR
Valve with CABG	17	NR	NR	NR	NR	NR
Total Valve	26	NR	NR	NR	NR	NR
Highbloom, Richard Y.						
CABG without Valve	47	●	●	●	●	4.8
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	5	NR	NR	NR	NR	NR
Total Valve	8	NR	NR	NR	NR	NR

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Holland, Fred W.						
CABG without Valve	235	●	●	●	●	5.0
Valve without CABG	39	●	●	●	●	6.1
Valve with CABG	52	●	●	●	●	6.8
Total Valve	91	●	●	●	●	6.4
Howanitz, E. Paul						
CABG without Valve	18	NR	NR	NR	NR	NR
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR
Kolla, Srinivas						
CABG without Valve	57	●	●	●	●	6.5
Valve without CABG	13	NR	NR	NR	NR	NR
Valve with CABG	9	NR	NR	NR	NR	NR
Total Valve	22	NR	NR	NR	NR	NR
Kormos, Robert L.						
CABG without Valve	1	NR	NR	NR	NR	NR
Valve without CABG	4	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR
Kuretu, M.L. Ray						
CABG without Valve	76	●	●	●	●	7.2
Valve without CABG	4	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR
Total Valve	7	NR	NR	NR	NR	NR
Landreneau, Rodney J.						
CABG without Valve	0	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR
Lazar, Michael J.						
CABG without Valve	26	NR	NR	NR	NR	NR
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR
LeBoutillier III, Martin						
CABG without Valve	41	●	●	●	●	6.1
Valve without CABG	4	NR	NR	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR
Total Valve	14	NR	NR	NR	NR	NR

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Lerberg, David						
CABG without Valve	76	●	●	●	●	6.5
Valve without CABG	10	NR	NR	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR
Total Valve	20	NR	NR	NR	NR	NR
Levin, Bradley H.						
CABG without Valve	101	●	●	●	●	5.5
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR
Total Valve	9	NR	NR	NR	NR	NR
Lico, Serrie C.						
CABG without Valve	112	●	●	●	●	4.3
Valve without CABG	13	NR	NR	NR	NR	NR
Valve with CABG	17	NR	NR	NR	NR	NR
Total Valve	30	●	●	●	●	NR
Lima, Claudio A. B.						
CABG without Valve	112	●	●	●	●	6.8
Valve without CABG	21	NR	NR	NR	NR	NR
Valve with CABG	42	●	●	●	●	9.6
Total Valve	63	●	●	●	●	8.7
Lincoln, Stephen D.						
CABG without Valve	1	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Lolley, David M.						
CABG without Valve	3	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR
Lomago, Dean F.						
CABG without Valve	104	●	●	●	●	6.3
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	4	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR
Long, Richard W.						
CABG without Valve	34	●	NR	NR	NR	6.0
Valve without CABG	5	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR
Total Valve	6	NR	NR	NR	NR	NR

● Lower than expected

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Lundy, Edward F.						
CABG without Valve	78	●	●	●	●	5.6
Valve without CABG	36	●	●	●	●	6.9
Valve with CABG	29	NR	NR	NR	NR	NR
Total Valve	65	●	●	●	●	7.9
Macha, Mahender						
CABG without Valve	38	●	●	●	●	7.2
Valve without CABG	6	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	8	NR	NR	NR	NR	NR
Machiraju, Venkata R.						
CABG without Valve	147	●	●	●	●	6.6
Valve without CABG	53	●	●	●	●	7.8
Valve with CABG	68	●	●	●	●	8.8
Total Valve	121	●	●	●	●	8.2
Magovern Jr., George J.						
CABG without Valve	39	●	●	●	●	7.5
Valve without CABG	34	●	●	●	●	8.4
Valve with CABG	16	NR	NR	NR	NR	NR
Total Valve	50	●	●	●	●	10.0
Maher, Thomas						
CABG without Valve	72	●	●	●	●	6.7
Valve without CABG	16	NR	NR	NR	NR	NR
Valve with CABG	13	NR	NR	NR	NR	NR
Total Valve	29	NR	NR	NR	NR	NR
Marelli, Daniel						
CABG without Valve	49	●	●	●	●	9.0
Valve without CABG	5	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR
Total Valve	6	NR	NR	NR	NR	NR
Marra, Steven						
CABG without Valve	33	●	●	●	●	6.5
Valve without CABG	2	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR
Marrone, Gary C.						
CABG without Valve	70	●	●	●	●	7.8
Valve without CABG	11	NR	NR	NR	NR	NR
Valve with CABG	14	NR	NR	NR	NR	NR
Total Valve	25	NR	NR	NR	NR	NR

● Lower than expected

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Martella, Arthur T.						
CABG without Valve	108	●	●	○	○	6.4
Valve without CABG	16	NR	NR	NR	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR
Total Valve	37	○	○	○	○	8.6
Masroor, Saqib						
CABG without Valve	8	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR
Mathai, John						
CABG without Valve	54	○	○	○	○	6.0
Valve without CABG	2	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR
Total Valve	3	NR	NR	NR	NR	NR
Mavridis, Savas						
CABG without Valve	135	○	○	○	○	4.8
Valve without CABG	23	NR	NR	NR	NR	NR
Valve with CABG	30	○	NR	NR	NR	NR
Total Valve	53	○	○	○	○	6.6
McCarty, Christine M.						
CABG without Valve	97	○	○	○	○	5.7
Valve without CABG	25	NR	NR	NR	NR	NR
Valve with CABG	23	NR	NR	NR	NR	NR
Total Valve	48	○	○	○	○	7.5
McClain, Joseph M.						
CABG without Valve	14	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	3	NR	NR	NR	NR	NR
McClurken, James B.						
CABG without Valve	60	○	○	○	○	7.1
Valve without CABG	15	NR	NR	NR	NR	NR
Valve with CABG	5	NR	NR	NR	NR	NR
Total Valve	20	NR	NR	NR	NR	NR
McCurry, Kenneth R.						
CABG without Valve	32	○	○	○	○	6.6
Valve without CABG	6	NR	NR	NR	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR
Total Valve	12	NR	NR	NR	NR	NR

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
McDonnell, Bryan E.						
CABG without Valve	107	●	●	●	●	4.8
Valve without CABG	8	NR	NR	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR
Total Valve	18	NR	NR	NR	NR	NR
McGary, Suzan A.						
CABG without Valve	88	●	●	●	●	5.0
Valve without CABG	9	NR	NR	NR	NR	NR
Valve with CABG	17	NR	NR	NR	NR	NR
Total Valve	26	NR	NR	NR	NR	NR
Mehta, Sanjay M.						
CABG without Valve	46	●	●	●	●	5.4
Valve without CABG	12	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR
Total Valve	23	NR	NR	NR	NR	NR
Metcalf, Randy K.						
CABG without Valve	183	●	●	●	●	5.9
Valve without CABG	28	NR	NR	NR	NR	NR
Valve with CABG	48	●	●	●	●	7.6
Total Valve	76	●	●	●	●	6.6
Michalak, Dennis M.						
CABG without Valve	6	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Morris, Rohinton J.						
CABG without Valve	158	●	●	●	●	6.6
Valve without CABG	24	NR	NR	NR	NR	NR
Valve with CABG	43	●	NR	NR	NR	9.1
Total Valve	67	●	●	●	●	8.1
Mott, Brian D.						
CABG without Valve	89	●	●	●	●	5.3
Valve without CABG	10	NR	NR	NR	NR	NR
Valve with CABG	16	NR	NR	NR	NR	NR
Total Valve	26	NR	NR	NR	NR	NR
Mumtaz, Mubashir						
CABG without Valve	96	●	●	●	●	5.4
Valve without CABG	24	NR	NR	NR	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR
Total Valve	42	●	●	●	●	7.2

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Myers, John L.						
CABG without Valve	0	NR	NR	NR	NR	NR
Valve without CABG	4	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR
Navid, Forozan						
CABG without Valve	95	●	●	●	●	6.8
Valve without CABG	20	NR	NR	NR	NR	NR
Valve with CABG	36	●	●	NR	NR	NR
Total Valve	56	●	●	●	●	9.3
Nixon, Todd E.						
CABG without Valve	90	●	●	●	●	5.0
Valve without CABG	15	NR	NR	NR	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR
Total Valve	36	●	NR	NR	NR	7.3
Nutting, Ron D.						
CABG without Valve	79	●	●	○	○	5.4
Valve without CABG	12	NR	NR	NR	NR	NR
Valve with CABG	24	NR	NR	NR	NR	NR
Total Valve	36	●	●	●	●	6.4
Olivas, Terry P.						
CABG without Valve	1	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Osevala, Mark A.						
CABG without Valve	133	●	●	●	●	5.5
Valve without CABG	19	NR	NR	NR	NR	NR
Valve with CABG	13	NR	NR	NR	NR	NR
Total Valve	32	●	●	NR	NR	7.6
Ovadia, Philip						
CABG without Valve	10	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR
Total Valve	2	NR	NR	NR	NR	NR
Pae, Walter E.						
CABG without Valve	19	NR	NR	NR	NR	NR
Valve without CABG	48	●	●	●	●	6.5
Valve with CABG	25	NR	NR	NR	NR	NR
Total Valve	73	●	●	●	●	7.0

○ Lower than expected

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Panebianco, Antonio C.						
CABG without Valve	42	●	○	○	○	6.0
Valve without CABG	12	NR	NR	NR	NR	NR
Valve with CABG	17	NR	NR	NR	NR	NR
Total Valve	29	NR	NR	NR	NR	NR
Park, Chong S.						
CABG without Valve	38	○	○	○	○	6.9
Valve without CABG	7	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR
Total Valve	18	NR	NR	NR	NR	NR
Park, Kyung S.						
CABG without Valve	51	○	○	○	○	5.5
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	10	NR	NR	NR	NR	NR
Total Valve	11	NR	NR	NR	NR	NR
Park, Sang B.						
CABG without Valve	34	○	○	○	○	6.3
Valve without CABG	15	NR	NR	NR	NR	NR
Valve with CABG	25	NR	NR	NR	NR	NR
Total Valve	40	○	○	○	○	7.3
Park, Sung J.						
CABG without Valve	98	○	○	○	○	5.3
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR
Total Valve	10	NR	NR	NR	NR	NR
Patel, Amit						
CABG without Valve	10	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR
Total Valve	1	NR	NR	NR	NR	NR
Payne, Maryann						
CABG without Valve	82	○	○	○	○	6.3
Valve without CABG	4	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	6	NR	NR	NR	NR	NR
Pellegrini, Daniel P.						
CABG without Valve	86	○	○	○	○	6.4
Valve without CABG	30	○	○	NR	NR	NR
Valve with CABG	22	NR	NR	NR	NR	NR
Total Valve	52	○	○	○	○	7.4

○ Lower than expected

○ Same as expected

● Higher than expected

NR Not rated (too few cases)

Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Pellegrini, Ronald V.						
CABG without Valve	139	●	●	●	●	6.3
Valve without CABG	68	●	●	●	●	7.4
Valve with CABG	56	●	●	●	●	8.8
Total Valve	124	●	●	●	●	8.0
Pennock, John L.						
CABG without Valve	102	●	●	●	●	6.0
Valve without CABG	19	NR	NR	NR	NR	NR
Valve with CABG	24	NR	NR	NR	NR	NR
Total Valve	43	●	●	●	●	7.3
Pett, Stephen D.						
CABG without Valve	31	●	NR	NR	NR	NR
Valve without CABG	49	●	NR	NR	NR	6.7
Valve with CABG	29	NR	NR	NR	NR	NR
Total Valve	78	●	●	●	○	7.7
Phillips, Theodore G.						
CABG without Valve	167	●	●	●	●	5.0
Valve without CABG	11	NR	NR	NR	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR
Total Valve	32	●	●	●	●	5.8
Pierce, Alice M.						
CABG without Valve	81	●	●	●	●	7.0
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	15	NR	NR	NR	NR	NR
Total Valve	18	NR	NR	NR	NR	NR
Piluiko, Vitaly V.						
CABG without Valve	9	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	1	NR	NR	NR	NR	NR
Total Valve	2	NR	NR	NR	NR	NR
Pochettino, Alberto						
CABG without Valve	29	NR	NR	NR	NR	NR
Valve without CABG	30	●	NR	NR	NR	NR
Valve with CABG	17	NR	NR	NR	NR	NR
Total Valve	47	●	NR	NR	NR	8.6
Priest, Brian P.						
CABG without Valve	127	●	●	●	●	6.2
Valve without CABG	18	NR	NR	NR	NR	NR
Valve with CABG	29	NR	NR	NR	NR	NR
Total Valve	47	●	●	●	●	7.2

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Pym, John						
CABG without Valve	22	NR	NR	NR	NR	NR
Valve without CABG	2	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR
Total Valve	5	NR	NR	NR	NR	NR
Quigley, Robert L.						
CABG without Valve	66	●	●	●	●	6.3
Valve without CABG	7	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	9	NR	NR	NR	NR	NR
Raudat, Charles W.						
CABG without Valve	47	●	●	●	●	5.2
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	2	NR	NR	NR	NR	NR
Reitknecht, Felice L.						
CABG without Valve	99	●	●	●	●	5.3
Valve without CABG	22	NR	NR	NR	NR	NR
Valve with CABG	15	NR	NR	NR	NR	NR
Total Valve	37	●	NR	NR	NR	6.4
Risher, William H.						
CABG without Valve	118	●	●	●	●	6.4
Valve without CABG	29	NR	NR	NR	NR	NR
Valve with CABG	42	●	●	●	●	11.6
Total Valve	71	●	●	●	●	9.1
Sadr, Farrokh S.						
CABG without Valve	40	●	●	●	●	5.2
Valve without CABG	7	NR	NR	NR	NR	NR
Valve with CABG	9	NR	NR	NR	NR	NR
Total Valve	16	NR	NR	NR	NR	NR
Samuels, Louis E.						
CABG without Valve	83	●	●	●	●	5.0
Valve without CABG	15	NR	NR	NR	NR	NR
Valve with CABG	5	NR	NR	NR	NR	NR
Total Valve	20	NR	NR	NR	NR	NR
Sanders, David						
CABG without Valve	79	●	●	●	●	5.1
Valve without CABG	7	NR	NR	NR	NR	NR
Valve with CABG	15	NR	NR	NR	NR	NR
Total Valve	22	NR	NR	NR	NR	NR

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Scott, William C.						
CABG without Valve	1	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Seibel, P. Scott						
CABG without Valve	76	●	●	●	●	6.0
Valve without CABG	25	NR	NR	NR	NR	NR
Valve with CABG	5	NR	NR	NR	NR	NR
Total Valve	30	●	●	NR	NR	NR
Shariff, Haji M.						
CABG without Valve	63	●	●	●	●	5.2
Valve without CABG	5	NR	NR	NR	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR
Total Valve	23	NR	NR	NR	NR	NR
Shears II, Larry						
CABG without Valve	315	●	●	●	●	5.8
Valve without CABG	40	●	●	●	●	7.0
Valve with CABG	46	●	●	●	●	8.3
Total Valve	86	●	●	●	●	7.6
Silvestry, Scott C.						
CABG without Valve	60	●	●	●	●	7.5
Valve without CABG	10	NR	NR	NR	NR	NR
Valve with CABG	7	NR	NR	NR	NR	NR
Total Valve	17	NR	NR	NR	NR	NR
Singer, Raymond L.						
CABG without Valve	50	●	●	●	●	5.2
Valve without CABG	47	●	●	●	●	5.6
Valve with CABG	18	NR	NR	NR	NR	NR
Total Valve	65	●	●	●	●	6.0
Singh, Deepak						
CABG without Valve	37	●	●	●	●	5.4
Valve without CABG	6	NR	NR	NR	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR
Total Valve	12	NR	NR	NR	NR	NR
Singhal, Arun K.						
CABG without Valve	4	NR	NR	NR	NR	NR
Valve without CABG	3	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	3	NR	NR	NR	NR	NR

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Sortino, Antonio						
CABG without Valve	58	●	●	●	●	5.7
Valve without CABG	33	●	●	●	●	7.0
Valve with CABG	41	●	●	●	●	10.2
Total Valve	74	●	●	●	●	8.5
Stahl, Russell						
CABG without Valve	97	●	●	●	●	6.0
Valve without CABG	19	NR	NR	NR	NR	NR
Valve with CABG	23	NR	NR	NR	NR	NR
Total Valve	42	●	●	●	●	7.3
Stella, Joseph						
CABG without Valve	118	●	●	●	●	4.8
Valve without CABG	11	NR	NR	NR	NR	NR
Valve with CABG	22	NR	NR	NR	NR	NR
Total Valve	33	●	●	●	●	5.5
Stephenson, Edward R.						
CABG without Valve	80	●	●	●	●	5.5
Valve without CABG	11	NR	NR	NR	NR	NR
Valve with CABG	11	NR	NR	NR	NR	NR
Total Valve	22	NR	NR	NR	NR	NR
Stivala, Charles						
CABG without Valve	11	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Strong III, Michael D.						
CABG without Valve	87	●	●	●	●	8.2
Valve without CABG	18	NR	NR	NR	NR	NR
Valve with CABG	19	NR	NR	NR	NR	NR
Total Valve	37	●	NR	NR	NR	10.6
Strzalka, Christopher T.						
CABG without Valve	125	●	●	●	●	5.2
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR
Sullivan, Lawrence X.						
CABG without Valve	80	●	●	●	●	6.4
Valve without CABG	9	NR	NR	NR	NR	NR
Valve with CABG	18	NR	NR	NR	NR	NR
Total Valve	27	NR	NR	NR	NR	NR

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post-Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Sutter, Francis P.						
CABG without Valve	128	●	●	●	●	5.6
Valve without CABG	9	NR	NR	NR	NR	NR
Valve with CABG	14	NR	NR	NR	NR	NR
Total Valve	23	NR	NR	NR	NR	NR
Suzuki, Mark Masaru						
CABG without Valve	167	●	●	●	●	5.3
Valve without CABG	30	●	●	NR	NR	NR
Valve with CABG	40	●	●	●	●	7.1
Total Valve	70	●	●	●	●	6.3
Szwerc, Michael F.						
CABG without Valve	27	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	3	NR	NR	NR	NR	NR
Total Valve	4	NR	NR	NR	NR	NR
Szydłowski, Gary W.						
CABG without Valve	102	●	●	●	●	4.5
Valve without CABG	30	●	NR	NR	NR	NR
Valve with CABG	16	NR	NR	NR	NR	NR
Total Valve	46	●	●	●	●	6.3
Taylor, Bradley S.						
CABG without Valve	115	●	●	●	●	6.2
Valve without CABG	8	NR	NR	NR	NR	NR
Valve with CABG	23	NR	NR	NR	NR	NR
Total Valve	31	●	●	NR	NR	NR
Thakur, Navin S.						
CABG without Valve	1	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Theman, Terrill						
CABG without Valve	112	●	●	●	●	5.8
Valve without CABG	19	NR	NR	NR	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR
Total Valve	40	●	●	●	●	7.3
Vasilakis, Alexander						
CABG without Valve	130	●	●	●	●	5.6
Valve without CABG	18	NR	NR	NR	NR	NR
Valve with CABG	21	NR	NR	NR	NR	NR
Total Valve	39	●	●	●	●	7.3

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Vasseur, Bernard G.						
CABG without Valve	12	NR	NR	NR	NR	NR
Valve without CABG	5	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	7	NR	NR	NR	NR	NR
Von Koch, Lear						
CABG without Valve	98	●	●	●	●	5.8
Valve without CABG	43	●	●	●	●	6.0
Valve with CABG	32	●	●	●	●	6.8
Total Valve	75	●	●	●	●	6.4
Watson, John W.						
CABG without Valve	72	●	●	●	●	5.8
Valve without CABG	4	NR	NR	NR	NR	NR
Valve with CABG	13	NR	NR	NR	NR	NR
Total Valve	17	NR	NR	NR	NR	NR
Wechsler, Andrew S.						
CABG without Valve	17	NR	NR	NR	NR	NR
Valve without CABG	16	NR	NR	NR	NR	NR
Valve with CABG	9	NR	NR	NR	NR	NR
Total Valve	25	NR	NR	NR	NR	NR
Wei, Lawrence M.						
CABG without Valve	117	●	●	●	●	6.1
Valve without CABG	18	NR	NR	NR	NR	NR
Valve with CABG	27	NR	NR	NR	NR	NR
Total Valve	45	●	●	●	●	8.6
Weiss, Steven J.						
CABG without Valve	35	●	●	●	●	7.3
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	6	NR	NR	NR	NR	NR
Total Valve	7	NR	NR	NR	NR	NR
Wilcox, Kenneth						
CABG without Valve	78	●	●	●	●	6.1
Valve without CABG	5	NR	NR	NR	NR	NR
Valve with CABG	16	NR	NR	NR	NR	NR
Total Valve	21	NR	NR	NR	NR	NR
Woelfel, G. Frederick						
CABG without Valve	183	●	○	●	●	5.5
Valve without CABG	21	NR	NR	NR	NR	NR
Valve with CABG	31	●	●	NR	NR	NR
Total Valve	52	●	●	●	●	6.9

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Surgeon Data

Surgeon	Number of Cases	Mortality		Readmissions		Post- Surgical Length of Stay
		In-Hospital	30-Day	7-Day	30-Day	
Woo, Y. Joseph						
CABG without Valve	80	●	●	●	●	5.9
Valve without CABG	47	●	NR	NR	NR	7.2
Valve with CABG	22	NR	NR	NR	NR	NR
Total Valve	69	●	●	●	●	8.1
Woods, Edward L.						
CABG without Valve	53	●	●	●	●	6.3
Valve without CABG	51	●	●	●	●	8.8
Valve with CABG	22	NR	NR	NR	NR	NR
Total Valve	73	●	●	●	●	9.8
Woody, Daniel J.						
CABG without Valve	2	NR	NR	NR	NR	NR
Valve without CABG	0	NR	NR	NR	NR	NR
Valve with CABG	0	NR	NR	NR	NR	NR
Total Valve	0	NR	NR	NR	NR	NR
Woolley, Daniel S.						
CABG without Valve	45	●	●	●	●	5.7
Valve without CABG	7	NR	NR	NR	NR	NR
Valve with CABG	9	NR	NR	NR	NR	NR
Total Valve	16	NR	NR	NR	NR	NR
Wu, James						
CABG without Valve	115	●	●	●	●	4.4
Valve without CABG	21	NR	NR	NR	NR	NR
Valve with CABG	20	NR	NR	NR	NR	NR
Total Valve	41	●	●	●	●	5.5
Zadeh, Barry J.						
CABG without Valve	59	●	●	●	●	6.4
Valve without CABG	18	NR	NR	NR	NR	NR
Valve with CABG	25	NR	NR	NR	NR	NR
Total Valve	43	●	●	●	●	7.3
Zama, Nche						
CABG without Valve	99	●	●	●	●	5.2
Valve without CABG	14	NR	NR	NR	NR	NR
Valve with CABG	20	NR	NR	NR	NR	NR
Total Valve	34	●	NR	NR	NR	7.0
Zenati, Marco						
CABG without Valve	8	NR	NR	NR	NR	NR
Valve without CABG	1	NR	NR	NR	NR	NR
Valve with CABG	2	NR	NR	NR	NR	NR
Total Valve	3	NR	NR	NR	NR	NR

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Pennsylvania Health Care Cost Containment Council

Marc P. Volavka, Executive Director

225 Market Street, Suite 400

Harrisburg, PA 17101

Phone: 717-232-6787

Fax: 717-232-3821

www.phc4.org