

Knee and Hip Replacements

2013 Data



Pennsylvania Health Care Cost Containment Council

June 2015

Knee and Hip Replacements

This report on knee and hip replacements presents outcomes for the 53,769 patients who underwent one or more of these procedures in a Pennsylvania hospital in 2013. Produced by the Pennsylvania Health Care Cost Containment Council (PHC4), the report includes risk-adjusted readmission ratings, average hospital charges, Medicare payments, surgeon volume, and county-level knee and hip replacement rates—information that can be helpful to patients and families making treatment decisions on where to receive care and to other purchasers of health care when evaluating hospital performance.

Table of Contents

About the Report	2
Statewide Statistics and Key Findings	9
Hospital Results	12
Surgeon Volume	27
Medicare Payment	45
County-Level Rates	62

About PHC4

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

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About the Report

About joint replacement

Joint pain, often caused by arthritis, is a common ailment that affects tens of millions of Americans in varying degrees of severity ranging from discomfort to disability. While different types of treatment options are used to address these conditions, joint replacement can offer improved quality of life for those with severe pain or poor mobility. Knee and hip replacements, the most common joint replacements, have seen a significant increase throughout the United States. Between 1992 and 2011 knee replacements have approximately tripled and hip replacements have approximately doubled.¹

A growing elderly population, plus other factors such as rising rates of obesity among all age groups, advances in surgical techniques, and high levels of postoperative patient satisfaction have combined to make knee and hip replacements popular after more conservative options to relieve joint pain have failed.

Joint replacement surgery involves removal of worn cartilage and bone from the joint and replacement with metal and plastic implants that function like a normal bone joint. The goal of treatment is to relieve pain and improve function. After the procedure is completed most patients stay in the hospital for a few days. With the help of physical therapy, patients typically begin exercising their knee or hip shortly after surgery.

Total Knee Replacement

The knee joint consists of three parts: the lower end of the thigh bone (femur), the upper end of the shin bone (tibia), and the knee cap (patella). In a knee replacement procedure, all three parts of the knee can be replaced or just one or two parts. When the femur and the tibia are replaced, a portion of the bone is removed and metal components are inserted. If the patella is replaced, a plastic component is inserted.

Total Hip Replacement

The hip joint consists of two main parts: a ball (femoral head) which is located at the upper end of the thigh bone (femur) and a socket (acetabulum) located in the pelvis. In a total hip replacement procedure, the ball is removed and replaced with a ball component and a cup/liner is inserted into the socket.

Additional Resources

American Academy of Orthopedic Surgeons *OrthoInfo*: www.orthoinfo.org

National Institute of Arthritis and Musculoskeletal and Skin Diseases: www.niams.nih.gov

¹United States Bone and Joint Initiative: The Burden of Musculoskeletal Diseases in the United States, Third Edition. Rosemont, IL: United States Bone and Joint Initiative, 2014. Available at <http://www.boneandjointburden.org>. Accessed on 2/9/2015.

About the Report

In this report

- This report includes hospital-specific outcomes and surgeon-specific volume for total knee and hip replacements, as defined by ICD-9-CM (International Classification of Diseases, Ninth Revision, Clinical Modification) codes (81.54 Total Knee Replacement, 81.51 Total Hip Replacement). Volume data includes elective and non-elective procedures. Outcomes are reported for replacements that are likely to be considered elective. Technical Notes relevant to this report provide additional detail. They are posted to PHC4's website at www.phc4.org.
- This report covers adult (18 years and older) inpatient hospital discharges for knee and hip replacements, regardless of payer, during calendar year 2013.
- The 157 Pennsylvania general acute care hospitals and 619 surgeons that performed knee and hip replacement surgery during calendar year 2013 are included.
- The hospital names have been shortened in many cases for formatting purposes. Hospital names may be different today than during the time period covered in the report due to mergers and name changes.

About the data

The hospital inpatient discharge data used in this analysis was submitted to PHC4 by the general acute care hospitals in Pennsylvania that performed knee and hip replacements in 2013. As part of PHC4's standard validation processes, hospitals were given an opportunity to verify and correct the discharge data. Hospitals were also given an opportunity to confirm the operating physician volume and Medicare payment data. The ultimate responsibility for data accuracy and completeness lies with each individual hospital. PHC4 wishes to acknowledge and thank the Pennsylvania hospitals who participated in the data submission and verification processes used for this report.

Also on PHC4's Website for Knee and Hip Replacements

Statewide Statistics and Key Findings

Hospital Results

Surgeon Volume

Medicare Payment

County-Level Rates

Hospital and Surgeon Comments

Technical Notes

Downloadable Data

About the Report

The Medicare fee-for-service payment data was provided by the Centers for Medicare and Medicaid Services. The Medicaid payment data (fee-for-service and managed care), was provided by the Pennsylvania Department of Human Services. The most recent Medicare and Medicaid payment data available to PHC4 for use in this report was for 2012. Medicaid data is reported at the statewide level only.

Accounting for high-risk patients

Some patients who undergo joint replacements have more complex conditions than others—conditions that may be associated with the need for joint replacements and/or other chronic diseases such as diabetes, heart disease, and hypertension. Included in the data PHC4 receives from Pennsylvania hospitals is information indicating, in simple terms, “how sick the patient was” on admission. The information is used to report fair comparisons among hospitals. Using this information, PHC4 developed a complex mathematical formula to “risk adjust” the readmission data included in this report, meaning that hospitals receive “extra credit” for operating on patients who are more seriously ill or at a greater risk than others. Risk adjusting the data is important because sicker patients might be more likely to be readmitted.

To calculate risk for the patients in this report, PHC4 uses the results from laboratory blood tests, patient characteristics and demographics (e.g., age, gender, race/ethnicity, and percent not speaking English very well), and billing codes that describe the patients’ medical conditions such as the presence of heart failure, aseptic necrosis (bone death due to loss of blood supply), morbid obesity, and other chronic diseases. A comprehensive description of the risk-adjustment techniques can be found in the Technical Notes on PHC4’s website at www.phc4.org.

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

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

Results for the measures included in the report are displayed separately for knee and hip.

About the Report

The following measures are reported:

Total Number of Cases (reported for hospitals and surgeons) – This is the number of total knee or hip replacements (both elective and non-elective procedures) performed by the hospitals and surgeons included in this report. This information provides an idea of the experience each facility or surgeon has in performing knee and hip replacements. Studies have suggested that, in at least some areas, the volume of cases treated by a hospital or physician can be a factor in the success of the treatment. Not included in this measure are procedures performed on patients less than 18 years old, those performed in Veterans’ hospitals, or those performed in other states by surgeons who also practice outside Pennsylvania. Also, if two joint replacements were performed during the same hospitalization, the case was only counted once. (Note that if two joint replacements were performed during the same hospitalization and two different surgeons performed the surgeries, an exception was made when counting surgeon volume. Each replacement was counted once for each surgeon.)

Risk-Adjusted 30-Day Hospital Readmission (reported for hospitals) – This measure is reported as a statistical rating that represents the number of patients who were readmitted to a Pennsylvania general acute care hospital within 30 days of being discharged from the hospital where the joint replacement was performed. A readmission was counted only if it was considered “unplanned”; that is, the patient was readmitted for a reason that was not defined as planned using the Centers for Medicare and Medicaid Services planned readmission algorithm developed specifically for total knee and hip replacements that are likely to be elective.²

Readmission is an outcome influenced by the quality of inpatient and outpatient care, including coordination of care, discharge planning, and medication reconciliation. Identifying readmissions provides information that can inform quality improvement efforts that have the potential to improve patient experience and lower health care costs.

While the *total number of cases* includes all knee and hip replacements for adult patients including elective and non-elective procedures, this *30-day readmission* measure only includes patients whose procedures were likely to be considered elective. That is, more clinically complex cases were excluded from the readmission analysis such as patients with femur, hip or pelvic fractures, patients with mechanical complications of a device as a principal diagnosis, and patients undergoing revisions or resurfacing procedures at the same time as the joint replacement. Additional exclusions specific to this measure are outlined in the Technical Notes on PHC4’s website at www.phc4.org.

² Centers for Medicare and Medicaid Services. 2014. “2014 Procedure Specific Readmission Measures Updates and Specifications Report: Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA) – Version 3.0.” Available at <http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Measure-Methodology.html>.

About the Report

To determine the risk-adjusted rating, PHC4 compares the number of patients one could reasonably expect to be readmitted, after accounting for patient risk, with the actual number of readmissions. (Please see “Understanding the Symbols” box below.) A rating is reported for hospitals with five or more knee or hip replacement cases.

Understanding the Symbols

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

Symbol	Description	Explanation
○	Rate was significantly lower than expected.	Fewer patients were readmitted than could be attributed to patient risk and random variation.
◉	Rate was not significantly different than expected.	The number of patients who were readmitted was within the range anticipated based on patient risk and random variation.
●	Rate was significantly higher than expected.	More patients were readmitted than could be attributed to patient risk and random variation.

Case-Mix Adjusted Average Hospital Charge (reported for hospitals) – The amount a hospital bills for a patient’s care is known as the charge. The charge includes the facility fee but does not include professional fees (e.g., physician fees) or other additional post-discharge costs such as rehabilitation treatment, long-term care, and/or home health care. In almost all cases, hospitals do not receive full charges from private insurance carriers or government payers. Hospitals typically receive actual payments that are considerably less than the listed charge. Hospital charges often vary by individual hospital and by regions of the state. The average charge included in this report was adjusted for the mix of cases specific to each hospital and reflects the entire length of stay. As with the readmission measure, the average hospital charge only includes patients whose procedures were likely to be considered elective. Additional exclusions specific to this measure are outlined in the Technical Notes on PHC4’s website at www.phc4.org. The average charge is reported for each hospital with 11 or more cases.

Average Medicare Fee-for-Service Payment (reported for hospitals) – This section of the report displays the average amount a hospital is paid for a Medicare patient in the fee-for-service system (along with the number of cases included in the average payment and average hospital charge for these cases). Payments from Medicare Advantage plans (e.g., Medicare HMOs) are not included. The average Medicare payment was calculated

About the Report

using the dollar amount the Centers for Medicare and Medicaid Services provided for the Medicare Part A hospital insurance fund payment. Patient liabilities (e.g., coinsurance and deductible dollar amounts) were not included. The average payment was calculated by summing the Medicare payment amounts for the cases (calculated separately for knee and hip replacement) and dividing the sum by the number of cases. 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 variation in the cost of delivering care, the increased costs from teaching doctors still in training, higher costs for hospitals that service large numbers of low-income patients, and for costs of new technologies. Medicare payments are based on the entire hospital stay.

The most recent Medicare payment data available to PHC4 was for calendar year 2012. As with the 30-day readmission and average charge measures, the average Medicare payment only includes patients whose procedures were likely to be considered elective. That is, more clinically complex cases were excluded from the Medicare payment analysis. The average Medicare payment is reported for each hospital with 11 or more cases.

Uses of the report

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

Patients/Consumers can use this report to aid in making decisions about where and with whom to seek treatment involving knee or hip replacement. This report should be used in conjunction with a physician or other health care provider when making these decisions.

Group Benefits Purchasers/Insurers can use this report as part of a process in determining which hospitals provide quality care for employees, subscribers, members, or participants who need knee or hip replacement surgery.

About the Report

Health Care Providers can use this report as an aid in identifying opportunities for quality improvement and cost containment.

Policymakers/Public Officials can use this report to enhance their understanding of health care issues, to ask provocative questions, to raise public awareness of important issues, and to help constituents identify health care options.

Everyone can use this information to raise important questions about why differences exist in the quality and efficiency of care.

Statewide Statistics and Key Findings

38.5% increase

53,769 adults underwent total knee or hip replacement in 2013 compared to 38,815 in 2004, a 38.5% increase.

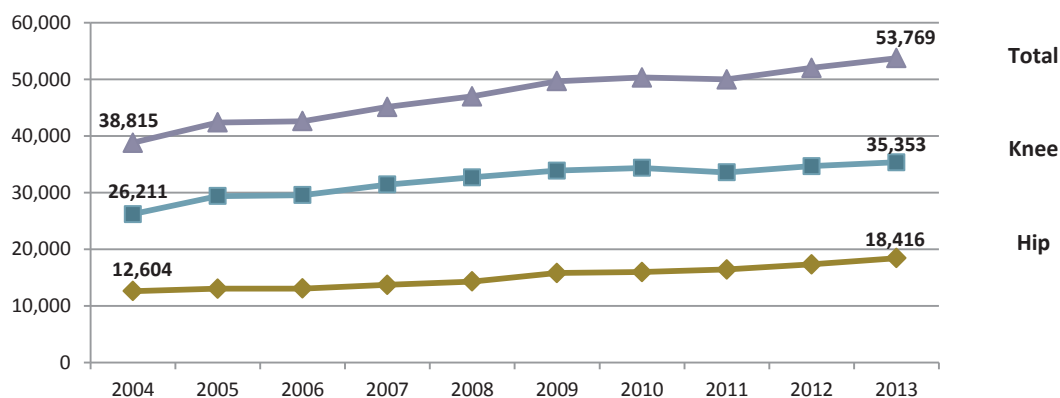
- 34.9% increase for knee replacement, from 26,211 patients in 2004 to 35,353 patients in 2013.
- 46.1% increase for hip replacement, from 12,604 patients in 2004 to 18,416 patients in 2013.

1 in 200

In 2013, about 1 in 200 Pennsylvania residents age 20 and older underwent total knee or hip replacement. The rate for patients age 65 and older was approximately 1 in 75 residents.

Pennsylvania residents age 45 to 64 had the largest *increase* in the rate of knee and hip replacement between 2004 and 2013, 40.4% increase for knee replacement (from 28.5 to 40.0 per 10,000) and 67.2% increase for hip replacement (from 12.5 to 20.9 per 10,000).

Number Knee and Hip Replacements, 2004-2013



3.9% readmitted

3.9% of patients who underwent knee replacement were readmitted to an acute care hospital within 30 days of discharge from the hospital in which their replacement was performed.

4.3% readmitted

4.3% of patients who underwent hip replacement were readmitted to an acute care hospital within 30 days of discharge from the hospital in which their replacement was performed.

Reasons for readmissions

Common reasons for readmission after knee and hip replacement include:

- Hematoma and post-operative wound infection.
- Dislocation and infection of the prosthetic joint.
- Blood clot in lung and lower extremity.
- Bloodstream infection and pneumonia.
- Bleeding and obstruction of the stomach and intestines.

Statewide Statistics and Key Findings

\$147 million

In 2012, Medicare fee-for-service payments totaled \$146,957,753 for knee and hip replacements, over \$104 million for knee replacements and more than \$42 million for hip replacements.

\$23 million

In 2012, Medicaid managed care payments totaled \$23,260,902 for knee and hip replacements, over \$15 million for knee replacements and more than \$8 million for hip replacements.

\$5 million

In 2012, Medicaid fee-for-service payments totaled \$5,091,497 for knee and hip replacements, over \$3 million for knee replacements and nearly \$2 million for hip replacements.

Note: 2012 is the most recent Medicare and Medicaid payment data available to PHC4.

Rates vary across 3 PA regions*

Western Pennsylvania had the highest hospitalization rate per 10,000 residents for both knee and hip replacements in 2013.

Knee replacement per 10,000 residents

- 37.5 Western Pennsylvania
- 36.0 Central and Northeastern Pennsylvania
- 30.6 Southeastern Pennsylvania

Hip replacement per 10,000 residents

- 18.5 Western Pennsylvania
- 17.1 Central and Northeastern Pennsylvania
- 16.8 Southeastern Pennsylvania

Rates vary by gender and race/ethnicity

Hospitalization Rates for Knee and Hip Replacements, 2013 (per 10,000 residents)		
	Knee	Hip
Female	41.6	18.4
Male	26.5	16.5
Black (non-Hispanic)	22.7	11.2
Hispanic	5.6	1.8
White (non-Hispanic)	37.9	19.4

Internal PHC4 analysis suggests that Hispanic ethnicity may be underreported. Not shown are data for other low-volume categories of race/ethnicity such as Asian, American Indian, Alaskan Native, Native Hawaiian, etc.

Post-Operative Length of Stay

In 2013, the average number of days patients stayed in the hospital after their replacement was:

- 3.0 days – Knee replacement
- 2.7 days – Hip replacement

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

Statewide Statistics and Key Findings

157 hospitals

In 2013, 157 Pennsylvania hospitals performed knee and hip replacements.

- 228 was the average number of knee replacements performed per hospital; 119 was the average for hip replacements.
- 13.5% of hospitals performed fewer than 30 knee replacements; 33.5% of hospitals performed fewer than 30 hip replacements.

619 surgeons

In 2013, 619 surgeons performed knee and hip replacements in Pennsylvania hospitals.

- 61 was the average number of knee replacements performed per surgeon; 35 was the average for hip replacements.
- 43.6% of surgeons performed fewer than 30 knee replacements; 63.7% of surgeons performed fewer than 30 hip replacements.

Volume and readmissions

While not applicable to an individual surgeon, *in general*, higher surgeon volume was associated with a patient's decreased risk of being readmitted within 30 days after knee or hip replacement (after accounting for patient risk). Higher hospital volume was not associated with the risk of being readmitted.

Length of stay and readmissions

While not applicable to an individual case, *in general*, longer post-operative lengths of stay were associated with increased readmissions for both knee and hip replacements (after accounting for patient risk).

Healthcare-Associated Surgical Site Infection Rates

Reported by Pennsylvania Department of Health

8.3 per 1,000 procedures – Knee replacement

14.8 per 1,000 procedures – Hip replacement

The Pennsylvania Department of Health (DOH) publicly reports hospital-specific healthcare-associated infection rates including surgical site infection rates for knee and hip replacement. The most recent report, *Healthcare-Associated Infections in Pennsylvania, 2012 Report*, can be found on DOH's website at www.health.state.pa.us.

Hospital Results

Table Notes

Total Number of Cases includes all adult total knee and hip replacements, elective and non-elective.

30-Day Readmissions includes readmissions to any general or specialty acute care hospital in Pennsylvania. Only elective knee and hip replacements are included in the readmission analysis. Non-elective, clinically complex cases are excluded. Out-of-state residents are also excluded because readmission data is not available for patients readmitted to a non-Pennsylvania hospital. Readmission rates do not count planned readmissions, which are identified through a set of criteria used by the Centers for Medicare and Medicaid Services' planned readmission algorithm. See Technical Notes for further detail about the algorithm and other exclusions.

Average Hospital Charge is for the entire length of stay and is trimmed and case mix adjusted. In almost all cases, hospitals typically receive actual payments from private insurers or government payers that are considerably less than the listed charge.

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Statewide			
Knee	35,353	3.9%	\$52,912
Hip	18,416	4.3%	\$55,493
ACMH			
Knee	134	⊙	\$22,216
Hip	50	⊙	\$21,795
Abington Memorial			
Knee	464	⊙	\$59,520
Hip	353	⊙	\$53,302
Advanced Surgical			
Knee	287	○	\$36,939
Hip	141	○	\$39,572
Albert Einstein			
Knee	155	⊙	\$93,720
Hip	55	⊙	\$103,193
Allegheny General			
Knee	367	●	\$45,436
Hip	302	⊙	\$40,113
Allegheny Valley			
Knee	153	●	\$35,392
Hip	74	⊙	\$33,686
Aria Health			
Knee	618	⊙	\$37,578
Hip	138	●	\$46,200

Understanding the Symbols

The symbols displayed in this report represent a comparison of a hospital's actual rate of readmission to its expected rate, which takes into account varying illness levels among patients.

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

NR: Not reported. Too few cases after exclusions.

Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Barix Clinics/PA			
Knee	1	NR	NR
Hip	0	NR	NR
Berwick			
Knee	69	●	\$112,357
Hip	18	◉	NR
Bradford Regional			
Knee	41	◉	\$42,635
Hip	22	◉	\$46,047
Brandywine			
Knee	72	◉	\$160,732
Hip	32	◉	\$126,297
Butler Memorial			
Knee	334	○	\$42,041
Hip	104	◉	\$41,024
Canonsburg			
Knee	122	●	\$26,953
Hip	40	◉	\$24,911
Carlisle Regional			
Knee	254	◉	\$65,838
Hip	95	◉	NR
Chambersburg			
Knee	384	◉	\$30,792
Hip	128	●	\$32,836
Charles Cole Memorial			
Knee	133	◉	\$14,295
Hip	61	◉	\$12,992
Chester County			
Knee	205	◉	\$35,634
Hip	127	◉	\$36,249
Chestnut Hill			
Knee	48	◉	\$129,518
Hip	30	◉	\$137,259

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Clarion			
Knee	48	⊙	\$28,641
Hip	29	⊙	\$25,272
Clearfield			
Knee	31	⊙	\$34,480
Hip	18	⊙	\$33,230
Conemaugh Valley Memorial			
Knee	429	⊙	\$35,175
Hip	189	⊙	\$35,030
Coordinated Health Ortho			
Knee	660	⊙	\$39,603
Hip	167	○	\$38,457
Corry Memorial			
Knee	18	⊙	\$33,603
Hip	1	NR	NR
Crozer Chester			
Knee	19	⊙	\$129,020
Hip	11	⊙	NR
Delaware County Memorial			
Knee	179	⊙	\$89,554
Hip	87	⊙	\$86,626
Doylestown			
Knee	327	⊙	\$53,079
Hip	174	⊙	\$52,754
DuBois Regional			
Knee	117	⊙	\$34,939
Hip	69	⊙	\$37,514
Eastern Regional			
Knee	0	NR	NR
Hip	6	NR	NR
Easton			
Knee	122	⊙	\$183,524
Hip	81	⊙	\$153,005

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Edgewood Surgical			
Knee	90	○	\$47,496
Hip	21	○	\$47,976
Einstein Montgomery			
Knee	148	○	\$86,181
Hip	57	○	\$103,344
Elk Regional			
Knee	46	○	\$37,093
Hip	22	○	\$37,946
Ellwood City			
Knee	35	○	\$21,787
Hip	10	○	NR
Endless Mountains			
Knee	74	○	\$40,074
Hip	33	○	\$32,522
Ephrata Community			
Knee	244	○	\$36,941
Hip	131	○	\$36,818
Evangelical Community			
Knee	340	○	\$33,264
Hip	176	○	\$36,269
Excelsa Hlth Westmoreland			
Knee	500	○	\$23,035
Hip	186	○	\$24,891
Forbes			
Knee	210	○	\$33,065
Hip	107	●	\$34,221
Geisinger Wyoming Valley			
Knee	293	○	\$76,090
Hip	184	○	\$80,305
Geisinger-Bloomsburg			
Knee	77	○	\$47,522
Hip	48	○	\$53,384

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Geisinger-Community			
Knee	249	○	\$55,998
Hip	144	○	\$59,630
Geisinger-Lewistown			
Knee	47	○	\$35,305
Hip	18	○	\$33,427
Geisinger/Danville			
Knee	447	○	\$82,341
Hip	250	○	\$87,483
Gettysburg			
Knee	183	○	\$38,612
Hip	58	○	\$39,742
Gnaden Huetten Memorial			
Knee	35	○	\$60,026
Hip	17	○	\$46,936
Good Samaritan/Lebanon			
Knee	225	○	\$42,702
Hip	86	○	\$49,181
Grand View			
Knee	247	○	\$34,676
Hip	114	○	\$36,952
Grove City			
Knee	42	○	\$30,880
Hip	17	○	\$39,247
Hahnemann University			
Knee	114	○	\$146,981
Hip	60	○	\$143,727
Hanover			
Knee	191	○	\$31,192
Hip	90	○	\$35,649
Hazleton General			
Knee	50	○	\$64,431
Hip	7	●	NR

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Heart of Lancaster			
Knee	35	⊙	\$65,873
Hip	6	⊙	NR
Heritage Valley Beaver			
Knee	215	⊙	\$21,933
Hip	113	⊙	\$22,204
Heritage Valley Sewickley			
Knee	553	⊙	\$19,600
Hip	173	⊙	\$20,965
Highlands			
Knee	7	⊙	NR
Hip	3	NR	NR
Holy Redeemer			
Knee	334	⊙	\$68,337
Hip	129	⊙	\$76,896
Holy Spirit			
Knee	374	⊙	\$36,797
Hip	174	⊙	\$38,855
Hospital University PA			
Knee	1	NR	NR
Hip	1	NR	NR
Indiana Regional			
Knee	102	⊙	\$41,432
Hip	59	⊙	\$41,934
J C Blair Memorial			
Knee	23	⊙	\$26,794
Hip	3	NR	NR
Jameson Memorial			
Knee	184	⊙	\$35,786
Hip	66	⊙	\$33,896
Jeanes			
Knee	153	⊙	\$99,472
Hip	52	⊙	\$104,991

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Jefferson			
Knee	441	○	\$31,235
Hip	200	○	\$31,820
Jennersville Regional			
Knee	10	●	NR
Hip	12	●	NR
Jersey Shore			
Knee	18	○	\$25,195
Hip	6	○	NR
Kane Community			
Knee	12	○	\$30,911
Hip	7	○	NR
Lancaster General			
Knee	1,076	○	\$34,404
Hip	595	○	\$35,074
Lancaster Regional			
Knee	278	○	\$65,997
Hip	97	○	NR
Lansdale			
Knee	218	○	\$49,917
Hip	184	○	\$45,489
Latrobe Area			
Knee	174	○	\$25,219
Hip	53	○	\$28,234
Lehigh Valley			
Knee	841	○	\$84,724
Hip	504	○	\$73,873
Lehigh Valley/Muhlenberg			
Knee	138	○	\$88,053
Hip	61	○	\$79,154
Lower Bucks			
Knee	17	○	\$86,779
Hip	8	○	NR

Understanding the Symbols

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Magee Womens/UPMC			
Knee	675	⊙	\$47,012
Hip	449	⊙	\$57,785
Main Line Bryn Mawr			
Knee	902	⊙	\$46,309
Hip	316	⊙	\$44,677
Main Line Lankenau			
Knee	319	⊙	\$49,728
Hip	204	○	\$51,553
Main Line Paoli			
Knee	326	●	\$52,518
Hip	201	⊙	\$55,016
Meadville			
Knee	409	⊙	\$32,620
Hip	172	⊙	\$29,516
Memorial York			
Knee	55	⊙	\$37,371
Hip	22	⊙	\$41,741
Memorial/Towanda			
Knee	0	NR	NR
Hip	1	NR	NR
Mercy Fitzgerald			
Knee	14	⊙	\$111,210
Hip	17	⊙	\$111,328
Mercy Philadelphia			
Knee	33	⊙	\$96,118
Hip	19	●	\$96,335
Mercy Suburban			
Knee	44	⊙	\$74,536
Hip	21	⊙	\$81,042
Methodist Division/TJUH			
Knee	13	⊙	\$77,889
Hip	9	⊙	NR

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Millcreek Community			
Knee	41	⊙	\$42,014
Hip	14	⊙	\$48,095
Milton S Hershey			
Knee	340	⊙	\$42,685
Hip	235	⊙	\$47,516
Miners			
Knee	3	NR	NR
Hip	2	NR	NR
Monongahela Valley			
Knee	163	⊙	\$36,591
Hip	93	⊙	\$39,734
Moses Taylor			
Knee	180	⊙	\$63,726
Hip	59	⊙	\$74,760
Mount Nittany			
Knee	846	⊙	\$50,192
Hip	358	⊙	\$48,409
Nason			
Knee	139	⊙	\$25,436
Hip	41	⊙	\$23,159
Nazareth			
Knee	136	⊙	\$58,568
Hip	58	⊙	\$74,460
OSS Orthopaedic			
Knee	605	⊙	\$30,370
Hip	245	⊙	\$35,534
Ohio Valley General			
Knee	58	⊙	\$52,930
Hip	26	⊙	\$41,484
Palmerton			
Knee	44	⊙	\$54,805
Hip	13	⊙	\$50,646

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Penn Presbyterian			
Knee	752	⊙	\$70,290
Hip	406	⊙	\$79,372
Pennsylvania			
Knee	307	⊙	\$71,847
Hip	378	⊙	\$66,898
Phoenixville			
Knee	84	⊙	\$112,446
Hip	34	⊙	\$109,801
Physicians Care			
Knee	253	⊙	\$43,105
Hip	202	⊙	\$45,839
Pinnacle Health			
Knee	1,412	⊙	\$33,007
Hip	622	●	\$32,978
Pocono			
Knee	94	⊙	\$36,149
Hip	64	⊙	\$34,340
Pottstown Memorial			
Knee	166	⊙	\$168,558
Hip	67	⊙	\$151,493
Punxsutawney Area			
Knee	30	⊙	\$28,171
Hip	9	⊙	NR
Reading			
Knee	600	○	\$38,298
Hip	245	⊙	\$43,952
Regional Scranton			
Knee	327	⊙	\$74,898
Hip	133	⊙	\$72,567
Riddle Memorial			
Knee	461	⊙	\$81,359
Hip	315	⊙	\$75,743

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Robert Packer			
Knee	396	⊙	\$31,749
Hip	259	⊙	\$35,046
Rothman Ortho Specialty			
Knee	326	⊙	\$64,236
Hip	443	⊙	\$56,956
Roxborough Memorial			
Knee	31	⊙	\$77,008
Hip	12	⊙	\$82,831
Sacred Heart/Allentown			
Knee	67	⊙	\$79,180
Hip	66	⊙	\$88,240
Saint Vincent			
Knee	318	○	\$69,376
Hip	160	⊙	\$64,839
Schuylkill-East Norwegian			
Knee	67	⊙	\$35,328
Hip	14	⊙	\$33,774
Schuylkill-South Jackson			
Knee	51	⊙	\$38,394
Hip	8	⊙	NR
Sharon Regional			
Knee	198	●	\$49,490
Hip	110	⊙	\$52,354
Soldiers & Sailors			
Knee	46	⊙	\$34,667
Hip	34	⊙	\$39,553
Somerset			
Knee	26	⊙	\$30,476
Hip	9	⊙	NR
Southwest Regional MC			
Knee	22	⊙	\$38,104
Hip	6	⊙	NR

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Springfield			
Knee	205	⊙	\$106,878
Hip	86	⊙	\$94,295
St Clair Memorial			
Knee	612	⊙	\$43,407
Hip	263	⊙	\$49,276
St Joseph's/Philadelphia			
Knee	2	NR	NR
Hip	1	NR	NR
St Joseph/Reading			
Knee	126	⊙	\$44,284
Hip	57	⊙	\$45,038
St Luke's Miners			
Knee	87	⊙	\$56,766
Hip	10	⊙	NR
St Luke's Quakertown			
Knee	31	⊙	\$93,938
Hip	15	⊙	\$86,615
St Luke's/Anderson			
Knee	4	NR	NR
Hip	3	NR	NR
St Luke's/Bethlehem			
Knee	427	⊙	\$94,047
Hip	282	○	\$88,433
St Mary			
Knee	373	⊙	\$81,828
Hip	177	⊙	\$78,085
Sunbury Community			
Knee	32	⊙	\$96,296
Hip	17	⊙	\$115,795
Surg Institute of Reading			
Knee	310	⊙	\$54,219
Hip	104	⊙	\$60,829

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Surg Spec/Coordinated			
Knee	272	⊙	\$40,528
Hip	97	⊙	\$45,151
Taylor			
Knee	53	⊙	\$123,705
Hip	9	⊙	NR
Temple University			
Knee	196	⊙	\$140,509
Hip	110	⊙	\$139,457
Thomas Jefferson Univ			
Knee	842	●	\$57,686
Hip	1,037	⊙	\$49,683
Titusville Area			
Knee	24	⊙	\$21,579
Hip	8	⊙	NR
Tyler Memorial			
Knee	2	NR	NR
Hip	0	NR	NR
Tyrone			
Knee	86	⊙	\$36,963
Hip	37	⊙	\$27,225
UPMC Altoona			
Knee	376	⊙	\$32,453
Hip	206	⊙	\$31,789
UPMC Bedford			
Knee	9	⊙	NR
Hip	6	⊙	NR
UPMC East			
Knee	246	⊙	\$65,255
Hip	111	⊙	\$67,519
UPMC Hamot			
Knee	358	⊙	\$56,148
Hip	192	⊙	\$70,426

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
UPMC Horizon			
Knee	260	○	\$49,180
Hip	103	○	\$51,297
UPMC McKeesport			
Knee	66	●	\$59,580
Hip	22	○	\$73,568
UPMC Mercy			
Knee	256	○	\$64,450
Hip	119	○	\$66,273
UPMC Northwest			
Knee	66	○	\$36,866
Hip	60	○	\$45,349
UPMC Passavant			
Knee	546	○	\$58,942
Hip	246	○	\$60,237
UPMC Presby Shadyside			
Knee	923	○	\$96,181
Hip	854	○	\$91,654
UPMC St Margaret			
Knee	730	○	\$70,271
Hip	314	○	\$72,711
Uniontown			
Knee	193	○	\$17,449
Hip	93	○	\$17,405
Warren General			
Knee	59	○	\$49,316
Hip	18	○	\$54,113
Washington			
Knee	96	○	\$34,548
Hip	64	○	\$39,857
Wayne Memorial			
Knee	74	○	\$39,228
Hip	26	○	\$38,298

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Hospital Results

Hospital	Total Number of Cases	30-Day Readmissions	Average Hospital Charge
Waynesboro			
Knee	37	⊙	\$33,908
Hip	17	⊙	NR
Wellspan Surgery & Rehab			
Knee	192	⊙	\$34,874
Hip	112	⊙	\$35,142
West Penn			
Knee	75	⊙	\$43,654
Hip	26	⊙	\$44,923
Wilkes-Barre General			
Knee	283	⊙	\$98,242
Hip	141	⊙	\$109,281
Williamsport Regional			
Knee	478	⊙	\$41,954
Hip	215	○	\$40,452
Windber			
Knee	11	⊙	\$36,522
Hip	5	NR	NR
York			
Knee	65	●	\$37,668
Hip	38	⊙	\$38,223

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Surgeon Volume

Table Notes

Surgeon volume includes all adult total knee and hip replacements, elective and non-elective.

Not included in this measure are procedures performed on patients less than 18 years old, those performed in Veterans' hospitals, or those performed in other states by surgeons who also practice outside Pennsylvania.

If two joint replacements were performed during the same hospitalization, the case was only counted once. However, if two joint replacements were performed during the same hospitalization and two different surgeons performed the surgeries, an exception was made when counting surgeon volume and each replacement was counted once for each surgeon.

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Abbott, Jeffrey Michael	128	127	255
Meadville	128	127	255
Abboud, Joseph Albert	0	1	1
Thomas Jefferson Univ	0	1	1
Abraham, John A	14	25	39
Thomas Jefferson Univ	14	25	39
Abraham, William D	127	63	190
UPMC Passavant	127	63	190
Ackerman, Timothy Sean	20	0	20
Pinnacle Health	20	0	20
Adolph, Carl Michael	18	8	26
Lancaster General	15	6	21
Lancaster Regional	3	2	5
Agnew, Daniel Kelly	89	38	127
Butler Memorial	89	38	127
Aksu, Kenan	5	4	9
Brandywine	4	3	7
Main Line Paoli	1	1	2
Aland, Christopher M	6	0	6
St Mary	6	0	6
Alhadeff, Joseph Edwards	86	63	149
OSS Orthopaedic	84	59	143
York	2	4	6
Allardyce, Thomas James	22	9	31
Wilkes-Barre General	22	9	31
Allen, Mark D	2	1	3
St Joseph's/Philadelphia	2	1	3
Altman, Gregory Theodore	8	1	9
Allegheny General	8	1	9
Amann, Timothy P	11	0	11
Einstein Montgomery	3	0	3
Mercy Suburban	7	0	7
Nazareth	1	0	1
Amin, Nirav Hasmukh	1	0	1
St Joseph/Reading	1	0	1

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Anbari, Kevin Kinan	192	162	354
Lehigh Valley	77	80	157
St Luke's/Bethlehem	97	80	177
Surg Spec/Coordinated	18	2	20
Anderson, Stuart Douglas	55	21	76
Edgewood Surgical	28	10	38
Grove City	2	0	2
Sharon Regional	4	3	7
UPMC Horizon	21	8	29
Antin, Mitchell Edward	22	5	27
UPMC East	2	0	2
UPMC Mercy	20	5	25
Apel, Peter James	0	1	1
Robert Packer	0	1	1
Armstrong, Robert	86	42	128
Clarion	35	15	50
DuBois Regional	51	27	78
Arnold, William Vincent	169	90	259
Nazareth	122	54	176
Rothman Ortho Specialty	47	36	83
Ast, Michael Paul	3	4	7
St Mary	3	4	7
Austin, David Kenneth	2	0	2
Robert Packer	2	0	2
Austin, Matthew Stuart	198	166	364
Rothman Ortho Specialty	95	79	174
Thomas Jefferson Univ	103	87	190
Avallone, John A	85	63	148
St Mary	85	63	148
Avallone, Vincent R	60	3	63
Good Samaritan/Lebanon	39	3	42
Heart of Lancaster	12	0	12
Lancaster Regional	9	0	9

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Avart, Mark D	12	0	12
Main Line Lankenau	9	0	9
Mercy Suburban	3	0	3
Avolio Jr, Armando	101	53	154
Advanced Surgical	82	42	124
Southwest Regional MC	10	2	12
Washington	9	9	18
Babins, David Michael	73	32	105
Saint Vincent	5	0	5
UPMC Hamot	68	32	100
Bader, Dov A	2	0	2
Mount Nittany	2	0	2
Bailey, John H	101	41	142
Williamsport Regional	101	41	142
Balasubramanian, Easwaran	88	37	125
Temple University	88	37	125
Baldwin, Keith D	0	1	1
Hospital University PA	0	1	1
Ball, David Joseph	10	2	12
Berwick	5	2	7
Geisinger-Bloomsburg	4	0	4
Sunbury Community	1	0	1
Balsamo, Anthony Joseph	0	2	2
Geisinger Wyoming Valley	0	2	2
Banas, Michael Paul	23	4	27
Geisinger Wyoming Valley	2	1	3
Wilkes-Barre General	21	3	24
Baron, Scott Lincoln	127	65	192
Jefferson	16	10	26
Monongahela Valley	93	47	140
Uniontown	18	8	26
Barter, Bradley Alan	18	8	26
Mount Nittany	12	7	19
Tyrone	6	1	7
Bartolozzi, Arthur Robert	98	0	98
Aria Health	96	0	96
Pennsylvania	2	0	2
Bash, Evan Karl	1	1	2
Crozer Chester	0	1	1
Springfield	1	0	1
Batman, Brian Allen	95	60	155
Evangelical Community	67	43	110
Sunbury Community	28	17	45
Baublitz, Seth D	86	5	91
Heart of Lancaster	1	5	6
Lancaster Regional	85	0	85

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Becker, Carl Eric	192	87	279
Lancaster General	192	87	279
Beight, John Lawton	77	38	115
Holy Redeemer	22	16	38
Jeanes	55	22	77
Bellicini, Christopher	274	100	374
Excelsa Hlth Westmoreland	266	99	365
Latrobe Area	8	1	9
Benner IV, John Henry	75	40	115
Chester County	75	40	115
Berger, Barry Ivan	0	5	5
Lehigh Valley	0	5	5
Bhayani, Shabir	34	20	54
Bradford Regional	34	20	54
Bisignani, Gregory Alfred	135	40	175
Excelsa Hlth Westmoreland	128	37	165
Highlands	7	3	10
Bizousky, David Thomas	47	25	72
Indiana Regional	47	25	72
Blackrick, Lisa Rose	1	2	3
UPMC Mercy	1	2	3
Bloomstine, Mark Theodore	30	10	40
Saint Vincent	30	10	40
Boal, Richard John	115	49	164
Holy Spirit	115	48	163
Pinnacle Health	0	1	1
Bonier, Jerome H	34	17	51
UPMC Horizon	34	17	51
Boniface, James Eugene	33	5	38
Sharon Regional	33	5	38
Booth Jr, Robert Emrey	409	0	409
Aria Health	390	0	390
Pennsylvania	19	0	19
Boran Jr, Robert Paul	24	8	32
Schuylkill-East Norwegian	24	8	32
Bowen, Thomas Richard	27	44	71
Geisinger/Danville	27	44	71
Boylan, Douglas Neil	24	0	24
Doylestown	24	0	24
Boyle, Scott J	22	8	30
Berwick	5	0	5
Geisinger-Bloomsburg	17	8	25
Bradley, James Philip	20	0	20
UPMC St Margaret	20	0	20

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Brahmabhatt, Shyam N	84	0	84
Abington Memorial	80	0	80
Lansdale	4	0	4
Brigham, Mark Prince	17	4	21
Delaware County Memorial	8	2	10
Riddle Memorial	4	1	5
Roxborough Memorial	3	0	3
Springfield	2	1	3
Brockmeyer, Thomas F	101	38	139
Jefferson	9	1	10
Monongahela Valley	27	17	44
St Clair Memorial	30	11	41
Uniontown	35	9	44
Brody, Leonard Alan	31	7	38
Holy Redeemer	31	7	38
Brogle, Patrick Joseph	98	53	151
St Luke's/Bethlehem	98	53	151
Bumgardner, James L	116	0	116
Grand View	116	0	116
Burke, Charles Joseph	61	0	61
UPMC St Margaret	61	0	61
Burrows, Charles Brundage	164	53	217
Doylestown	164	53	217
Busch, Michael	69	27	96
Sacred Heart/Allentown	19	8	27
Surg Spec/Coordinated	50	19	69
Buseck, Mark Sherwood	46	36	82
Saint Vincent	46	36	82
Bykov, Yury Leonid	0	13	13
Lehigh Valley	0	12	12
Lehigh Valley/Muhlenberg	0	1	1
Campbell, Donald Charles	6	0	6
UPMC Northwest	6	0	6
Campbell, Michael Andrew	2	3	5
Brandywine	1	2	3
Main Line Paoli	1	1	2
Carey, Patrick Joseph	34	0	34
Williamsport Regional	34	0	34
Carroll, Paul Francis	16	0	16
Lancaster General	16	0	16
Carson, James Hubert	38	19	57
Lancaster General	38	19	57
Caruso, Steven A	1	0	1
St Mary	1	0	1
Casey Jr, John Donald	24	30	54
Reading	24	30	54

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Caucci, David John	29	12	41
Wayne Memorial	29	12	41
Cautilli, George Peter	171	49	220
St Mary	171	49	220
Charlton, William Perry	24	7	31
Geisinger Wyoming Valley	1	0	1
Tyler Memorial	1	0	1
Wilkes-Barre General	22	7	29
Cherry, Kenneth Lynn	228	111	339
Mount Nittany	228	111	339
Chertow, Todd Eric	22	4	26
Berwick	22	4	26
Chiavacci, Eugene John	0	1	1
Geisinger-Community	0	1	1
Chidester, John Henry	16	12	28
Main Line Paoli	16	12	28
Choi, Joseph Young	0	1	1
Robert Packer	0	1	1
Chollak, William Lewis	8	5	13
Chestnut Hill	8	5	13
Christiansen, Gregory Brian	29	0	29
Advanced Surgical	22	0	22
St Clair Memorial	5	0	5
Washington	2	0	2
Chu, Benjamin I-Ming	4	1	5
Lansdale	4	1	5
Ciccotti, Michael Gerard	21	0	21
Thomas Jefferson Univ	21	0	21
Clabbers, Kim M	14	5	19
Lower Bucks	14	5	19
Cole Jr, Charles L	239	0	239
Evangelical Community	236	0	236
Sunbury Community	3	0	3
Colleran, Kevin Raymond	67	30	97
Regional Scranton	67	30	97
Collier Jr, Andrew Joseph	10	5	15
Hahnemann University	2	0	2
Methodist Division/TJUH	8	5	13
Componovo, Roger Massa	90	60	150
Pocono	90	60	150
Connolly, Thomas Carroll	18	6	24
Jersey Shore	18	6	24

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Conrad, Wayne Ramsay	159	0	159
Ephrata Community	8	0	8
Heart of Lancaster	10	0	10
Lancaster General	104	0	104
Lancaster Regional	37	0	37
Cooke, Christopher Cunningham	61	79	140
Lancaster General	61	79	140
Cooper, Alan Edward	9	5	14
St Joseph/Reading	9	5	14
Cooper, Mitchell Edward	0	1	1
Lehigh Valley/Muhlenberg	0	1	1
Corcoran, Thomas Anthony	5	0	5
Aria Health	5	0	5
Cordischi, Keith Michael	4	0	4
Good Samaritan/Lebanon	4	0	4
Cortina, Gary John	80	37	117
UPMC Hamot	80	37	117
Craft, David Victor	115	30	145
Abington Memorial	115	30	145
Craig, Matthew Rankin	0	1	1
Abington Memorial	0	1	1
Crofoot, Carmen Denise	19	6	25
Geisinger-Bloomsburg	5	0	5
Geisinger/Danville	14	6	20
Crossett, Lawrence Scott	175	159	334
UPMC Presby Shadyside	175	159	334
Curran, Todd Allen	50	5	55
OSS Orthopaedic	49	5	54
York	1	0	1
Dagata, Samuel David	86	0	86
Hanover	86	0	86
Dahl, Raymond E	126	48	174
Holy Spirit	5	0	5
Pinnacle Health	121	48	169
Dahmus, Robert	48	22	70
Pinnacle Health	48	22	70
Dailey, Stephen William	11	1	12
Holy Spirit	11	1	12
Davis III, Charles M	120	84	204
Milton S Hershey	120	84	204
Dean, David Joseph	31	9	40
Grove City	31	9	40
Dearolf III, Walter W	67	16	83
Holy Redeemer	38	11	49
Jeanes	29	5	34

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
DeForno, Donald Jack	3	0	3
Bradford Regional	3	0	3
Deirmengian, Carl A	289	213	502
Main Line Lankenau	247	181	428
Physicians Care	42	31	73
Rothman Ortho Specialty	0	1	1
Deirmengian, Gregory Krikor	44	56	100
Thomas Jefferson Univ	44	56	100
DeLong, William George	40	40	80
St Luke's/Bethlehem	40	40	80
DeLuca, Steven Michael	45	63	108
Holy Spirit	17	19	36
Pinnacle Health	28	44	72
Delullo, James Anthony	64	54	118
Saint Vincent	0	1	1
UPMC Hamot	64	53	117
DeMuth Sr, William Warren	62	31	93
Pinnacle Health	62	31	93
DeMuth, Brian Charles	1	0	1
Jennersville Regional	1	0	1
Desmond, Mark	20	8	28
Aria Health	20	8	28
DeVita, Dennis Michael	34	15	49
Geisinger-Lewistown	34	15	49
DiGioia, Anthony Michael	391	188	579
Magee Womens/UPMC	391	188	579
Dinsmore, Harry Heasley	13	3	16
Geisinger-Lewistown	13	3	16
Disimone, Ronald Enrico	60	23	83
Williamsport Regional	60	23	83
Diverio Jr, Donald D	14	6	20
Good Samaritan/Lebanon	13	6	19
Lancaster Regional	1	0	1
Doherty Jr, John Henry	131	66	197
Geisinger-Community	2	1	3
Regional Scranton	129	65	194
Dominick, Thomas Francis	30	133	163
Evangelical Community	30	133	163
Donaldson, Christopher Todd	23	11	34
Conemaugh Valley Memorial	23	11	34
Donegan, Derek J	1	7	8
Hospital University PA	1	0	1
Pennsylvania	0	7	7

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Dragann, Raymond Dennis	52	15	67
Ephrata Community	30	11	41
Lancaster General	22	4	26
Duffy, Thomas Neal	8	13	21
Mercy Fitzgerald	8	13	21
Edwards, Bruce Neal	12	7	19
Waynesboro	12	7	19
Eingorn, David S	16	14	30
St Mary	16	14	30
Elia, Eugene A	113	46	159
Delaware County Memorial	112	46	158
Springfield	1	0	1
Ellis, Thomas J	155	0	155
Mount Nittany	155	0	155
Emond, Christopher Edward	5	0	5
UPMC Passavant	3	0	3
UPMC St Margaret	2	0	2
Emper, William David	50	0	50
Main Line Bryn Mawr	50	0	50
Engle, Carolyn P	89	29	118
Ellwood City	1	0	1
Heritage Valley Beaver	88	29	117
Eshbach, Ted Brubaker	21	9	30
Elk Regional	21	9	30
Espenshade, Matthew John	33	18	51
Pinnacle Health	33	18	51
Essis, Frank Mike	22	39	61
Lancaster General	22	39	61
Etienne, Gracia	206	124	330
Memorial York	15	9	24
OSS Orthopaedic	190	115	305
York	1	0	1
Evans, Eric Todd	153	43	196
Allegheny Valley	81	31	112
UPMC St Margaret	72	12	84
Evenski, Andrea Jean	1	0	1
Pennsylvania	1	0	1
Falvello, Anthony Conrad	35	6	41
Berwick	4	0	4
Hazleton General	16	6	22
Surg Spec/Coordinated	15	0	15
Fanelli, Gregory Carl	98	0	98
Geisinger/Danville	98	0	98
Faralli, Victor Joseph	66	50	116
Good Samaritan/Lebanon	66	50	116

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Fasulo, Gregg Joseph	20	0	20
Heart of Lancaster	10	0	10
Lancaster General	10	0	10
Fayyazi, Amir Hossain	0	1	1
Lehigh Valley	0	1	1
Federico, Dale James	4	0	4
Lehigh Valley	1	0	1
Lehigh Valley/Muhlenberg	3	0	3
Feinstein, Peter Alan	4	5	9
Wilkes-Barre General	4	5	9
Feldmann, Daniel David	55	0	55
Geisinger/Danville	55	0	55
Fenwick, James Adam	75	67	142
Hanover	75	67	142
Fernandez, Michael Louis	0	4	4
Pinnacle Health	0	4	4
Ferrante, Christopher Richard	16	29	45
Easton	16	29	45
Ferretti, Anthony J	19	7	26
Millcreek Community	19	7	26
Fessler, Thomas John	66	37	103
Saint Vincent	66	37	103
Fink, Bradley Allan	6	4	10
St Mary	6	4	10
Fluhme, Derrick Joseph	290	60	350
St Clair Memorial	290	60	350
Ford, Edward J	9	9	18
St Mary	9	9	18
Foust, Terrance Lee	65	32	97
Charles Cole Memorial	65	32	97
Fowler, David Paul	93	35	128
UPMC East	92	35	127
UPMC Presby Shadyside	1	0	1
Fox, Edward Joseph	1	0	1
Milton S Hershey	1	0	1
Frankel, Andrew Steven	22	11	33
Main Line Paoli	22	11	33
Frankeny, John Richard	126	41	167
Holy Spirit	41	22	63
Pinnacle Health	85	19	104
Freedman, Kevin Blake	27	0	27
Main Line Bryn Mawr	26	0	26
Main Line Paoli	1	0	1
Friedman, Robert Lawrence	10	0	10
Easton	10	0	10

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Frndak, Philip Alan	281	45	326
Meadville	281	45	326
Fugate, Douglas Scott	30	11	41
Indiana Regional	0	2	2
Punxsutawney Area	30	9	39
Fultz, Craig Warren	90	14	104
Holy Spirit	37	7	44
Pinnacle Health	53	7	60
Gaffney, Michael B	64	29	93
UPMC St Margaret	64	29	93
Gardner, Mark Andrew	74	24	98
UPMC Horizon	74	24	98
Garino, Jonathan Peter	78	69	147
Main Line Paoli	73	67	140
Phoenixville	5	2	7
Gause, Trenton Michael	0	1	1
UPMC Passavant	0	1	1
Gehl, Richard Stanley	1	0	1
Ellwood City	1	0	1
German, David John	63	24	87
Saint Vincent	63	24	87
Ghanem, Elie Semaan	10	22	32
Geisinger/Danville	10	22	32
Ghigiarelli, Christopher Chadwick	45	22	67
Moses Taylor	45	22	67
Giammattei, Frank Presby	129	72	201
Crozer Chester	5	3	8
Riddle Memorial	34	22	56
Springfield	88	43	131
Taylor	2	4	6
Giannotti, Bradley Francis	68	29	97
Charles Cole Memorial	68	29	97
Gibbons, John Martin	86	63	149
Advanced Surgical	55	37	92
St Clair Memorial	11	14	25
Washington	20	12	32
Gibson, Brett William	5	4	9
St Luke's Quakertown	5	3	8
St Luke's/Anderson	0	1	1
Gillick, Alan P	8	21	29
Geisinger-Community	8	21	29
Gingrich, Kevin Allen	47	17	64
Abington Memorial	47	17	64
Girdany, David Steven	22	8	30
Somerset	22	8	30

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Gish, Michael William	27	0	27
Lancaster General	27	0	27
Glah, James J	9	6	15
UPMC Bedford	9	6	15
Godbout, Brett Patrick	61	23	84
Coordinated Health Ortho	57	21	78
Lehigh Valley/Muhlenberg	2	2	4
Surg Spec/Coordinated	2	0	2
Golobek, Donald	46	34	80
Soldiers & Sailors	46	34	80
Goltz, Curtis	147	48	195
Pinnacle Health	147	48	195
Good, Robert P	251	134	385
Main Line Bryn Mawr	240	127	367
Physicians Care	11	7	18
Goodman, Mark A	19	23	42
UPMC Presby Shadyside	19	23	42
Gottwald, Dan Henry	16	8	24
Warren General	16	8	24
Grabias Jr, Stanley L	24	21	45
Reading	20	21	41
St Joseph/Reading	4	0	4
Graham, Timothy Smith	45	11	56
Ellwood City	3	0	3
Jameson Memorial	42	11	53
Grandrimo, John	61	20	81
Pinnacle Health	61	20	81
Grant, Richard Edward	117	48	165
Albert Einstein	117	48	165
Grant, Richard Joseph	1	1	2
Albert Einstein	1	1	2
Greene, Thomas Edward	34	11	45
Lansdale	34	11	45
Griffin Jr, Edward Elijah	24	8	32
Titusville Area	24	8	32
Grob, Robert Bruce	75	30	105
Gnaden Huetten Memorial	31	17	48
Hazleton General	1	1	2
Palmerton	38	12	50
St Luke's/Bethlehem	1	0	1
Westfield (closed)	4	0	4
Groff, Steven Kenneth	27	14	41
OSS Orthopaedic	27	14	41

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Groff, Yram Jan	207	45	252
Forbes	67	11	78
UPMC Presby Shadyside	140	34	174
Gruen, Gary Scott	0	1	1
UPMC Presby Shadyside	0	1	1
Guastavino, Thomas David	9	3	12
Schuylkill-East Norwegian	4	1	5
Schuylkill-South Jackson	5	2	7
Gunnlaugson, Brian Earl	224	104	328
Conemaugh Valley Memorial	224	104	328
Gurkoff, Jerry F	18	1	19
Corry Memorial	18	1	19
Haak, Michael Helmut	0	1	1
Geisinger/Danville	0	1	1
Haas, Myron Dale	21	2	23
Schuylkill-East Norwegian	16	2	18
Schuylkill-South Jackson	5	0	5
Habib, Gregory Flinn	83	41	124
St Clair Memorial	83	41	124
Habusta, Steven Frank	22	7	29
Millcreek Community	22	7	29
Haffner, Daniel Loren	87	46	133
Excela Hlth Westmoreland	61	34	95
Latrobe Area	26	12	38
Hallock, Richard Henry	166	63	229
Pinnacle Health	166	63	229
Hamlin, Brian Reynolds	186	126	312
Magee Womens/UPMC	186	126	312
Hampers, Douglas Anthony	1	1	2
Excela Hlth Westmoreland	1	1	2
Hand, Steven Paul	55	28	83
Jameson Memorial	55	28	83
Handy, Robert William	16	0	16
Doylestown	16	0	16
Hanks, Gregory A	95	20	115
Holy Spirit	16	5	21
Pinnacle Health	79	15	94
Harding, Susan Palmer	0	2	2
Hahnemann University	0	2	2
Harner, Christopher Dechant	1	0	1
UPMC Mercy	1	0	1
Harrer, Michael Francis	32	27	59
Rothman Ortho Specialty	32	27	59
Harter, Gary Dean	163	80	243
Geisinger/Danville	163	80	243

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Hartmann, David Barry	40	22	62
Jefferson	40	22	62
Harvey, Charles Joseph	0	42	42
UPMC Altoona	0	42	42
Hawk, Gregor McClearn	53	28	81
St Luke's/Bethlehem	53	28	81
Heckman, Daniel Scott	12	2	14
St Luke's/Bethlehem	12	2	14
Heidenreich Jr, Fred Paul	106	39	145
UPMC St Margaret	106	39	145
Helmold, Karl William	3	3	6
Lower Bucks	3	3	6
Helwig, Anthony Guy	11	7	18
Berwick	1	0	1
Geisinger-Bloomsburg	10	7	17
Hely, Daniel Patrick	40	15	55
Carlisle Regional	40	15	55
Henzes, Jack	130	33	163
Geisinger-Community	1	0	1
Moses Taylor	129	33	162
Hepner, Bert Charles	116	42	158
ACMH	116	42	158
Hershock, Bruce A	55	19	74
Excela Hlth Westmoreland	0	1	1
Latrobe Area	55	18	73
Hill, Edward Brown	30	10	40
Conemaugh Valley Memorial	30	10	40
Himmelwright, Brett A	32	29	61
Holy Spirit	32	28	60
Pinnacle Health	0	1	1
Hines, Brent Scott	17	0	17
Memorial York	1	0	1
OSS Orthopaedic	16	0	16
Hoffman, James Kirk	26	17	43
Coordinated Health Ortho	20	15	35
Lehigh Valley/Muhlenberg	6	2	8
Hoffman, Michael V	200	99	299
Williamsport Regional	200	99	299
Hofmann, Douglas Joseph	35	19	54
OSS Orthopaedic	17	8	25
York	18	11	29
Holobinko, Joseph Newton	18	10	28
Waynesboro	18	10	28

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Honkala, Timothy K	102	62	164
Jefferson	101	62	163
UPMC McKeesport	1	0	1
Horenstein, Paul Aaron	29	14	43
Riddle Memorial	11	3	14
Roxborough Memorial	18	11	29
Horning, Joel Andrew	0	1	1
Lancaster General	0	1	1
Horwitz, Brett Robert	14	2	16
Einstein Montgomery	10	1	11
Mercy Suburban	2	0	2
Phoenixville	2	1	3
Hozack, William James	253	517	770
Rothman Ortho Specialty	70	166	236
Thomas Jefferson Univ	183	351	534
Hribar, Stephen Richard	121	59	180
Heritage Valley Sewickley	121	59	180
Hsu, Victor Wei-Teh	0	1	1
Abington Memorial	0	1	1
Hubler, Kyle James	11	16	27
Mount Nittany	10	13	23
Tyrone	1	2	3
UPMC Altoona	0	1	1
Huebner Jr, Julius John	84	88	172
Allegheny General	69	87	156
Forbes	15	1	16
Hughes, David Plummer	22	1	23
Lancaster General	22	1	23
Hume, Eric Lynn	62	55	117
Penn Presbyterian	62	55	117
Hummer III, Charles D	29	11	40
Crozer Chester	1	0	1
Riddle Memorial	5	2	7
Springfield	23	9	32
Hung, Gregory Liu	51	38	89
Forbes	24	24	48
UPMC Presby Shadyside	27	14	41
Hussain, Shabbar	86	14	100
Chambersburg	86	14	100
Huxster, Robert Hugh	0	1	1
Chester County	0	1	1
Ialeggio, John Joseph	45	23	68
Easton	45	23	68
Ilyas, Asif M	0	2	2
Thomas Jefferson Univ	0	2	2

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Irwin, John Thomas	22	12	34
St Mary	22	12	34
Israelite, Craig Lane	380	114	494
Penn Presbyterian	380	114	494
Jaeger, Randy	46	0	46
Lehigh Valley	2	0	2
Sacred Heart/Allentown	10	0	10
Surg Spec/Coordinated	34	0	34
Jarvis, Wingrove Theophilus	0	1	1
Memorial/Towanda	0	1	1
Jewell, Brian Foster	128	0	128
Ohio Valley General	2	0	2
UPMC Passavant	126	0	126
Johanson, Norman Arthur	105	72	177
Abington Memorial	8	14	22
Hahnemann University	97	58	155
Johe, David Howard	15	10	25
Elk Regional	15	10	25
Johnson, Van Warren	30	10	40
Warren General	30	10	40
Johnstone, Graham F	25	10	35
Allegheny Valley	0	1	1
UPMC St Margaret	25	9	34
Junkin Jr, David Maclean	5	1	6
UPMC Altoona	5	1	6
Jurenovich, Michael John	10	4	14
Edgewood Surgical	8	2	10
UPMC Horizon	2	2	4
Kaneda, Robert R	70	23	93
Pinnacle Health	70	23	93
Kann, Jeffrey Neal	41	1	42
Ohio Valley General	5	1	6
UPMC St Margaret	36	0	36
Katz, Ian	34	22	56
Conemaugh Valley Memorial	34	22	56
Kaye, Andrew Stuart	52	29	81
Heritage Valley Beaver	52	29	81
Kazanjan, Jack Elias	0	4	4
Delaware County Memorial	0	4	4
Kelly, Matthew James	16	2	18
Holy Spirit	4	1	5
Pinnacle Health	12	1	13
Kilkelly, Francis Xavier	30	23	53
Hanover	30	23	53

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Kim, Eugene Daewhan	19	18	37
Geisinger Wyoming Valley	1	0	1
Wilkes-Barre General	18	18	36
King, Scott G	83	109	192
Pinnacle Health	83	109	192
Kinkartz, Jason Daniel	4	2	6
Bradford Regional	4	2	6
Klatt, Brian Andrew	152	126	278
UPMC East	84	48	132
UPMC Presby Shadyside	68	78	146
Klein, Alan Howard	16	8	24
UPMC East	16	8	24
Kleinbart, Fredric Alan	1	1	2
Barix Clinics/PA	1	0	1
St Mary	0	1	1
Kolessar, David J	133	85	218
Geisinger Wyoming Valley	133	85	218
Kostopoulos, Vasileios	12	7	19
Kane Community	12	7	19
Kozicky, Peter Walter	35	30	65
Coordinated Health Ortho	30	25	55
Easton	1	0	1
Lehigh Valley/Muhlenberg	4	5	9
Krahe, Mark Anthony	6	0	6
UPMC Hamot	6	0	6
Krajewski, R Drew	19	10	29
St Mary	19	10	29
Kramer, Thomas D	149	60	209
UPMC Mercy	141	57	198
UPMC Passavant	8	3	11
Kropf, Eric Jon	1	0	1
Temple University	1	0	1
Krot, Alexander	1	1	2
DuBois Regional	1	1	2
Krum, Seth David	66	21	87
Holy Redeemer	66	21	87
Krywicki, William J	145	83	228
Geisinger Wyoming Valley	145	83	228
Kubik, Nicholas Joseph	67	0	67
Heritage Valley Sewickley	67	0	67
Kutz, Eric Martin	39	19	58
Pinnacle Health	39	19	58
Langhans, Mark Joseph	38	0	38
UPMC Passavant	38	0	38
Lattanzio, Pierre Jean	13	0	13
Warren General	13	0	13

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Lauro, Gregory R	85	22	107
Latrobe Area	85	22	107
Lavigne, Gregory Scott	9	9	18
Allegheny General	9	9	18
Lebby, Eric Brian	288	119	407
Lehigh Valley	218	86	304
Lehigh Valley/Muhlenberg	70	33	103
Lee, Gwo-Chin	180	95	275
Penn Presbyterian	180	95	275
Lehman, John David	45	16	61
Ellwood City	6	3	9
Heritage Valley Beaver	39	13	52
Lesh, Mark Lee	55	15	70
Jefferson	53	14	67
St Clair Memorial	0	1	1
UPMC McKeesport	1	0	1
Washington	1	0	1
Levicoff, Eric Alan	57	91	148
Main Line Bryn Mawr	56	91	147
Physicians Care	1	0	1
Levine, Michael	117	71	188
Forbes	87	56	143
UPMC Presby Shadyside	30	15	45
Levy, Jon Alexander	10	0	10
Heritage Valley Sewickley	9	0	9
UPMC Presby Shadyside	1	0	1
Liefeld, Paul A	61	35	96
Ohio Valley General	22	9	31
UPMC Passavant	39	26	65
Lillmars, Steven A	78	59	137
Geisinger/Danville	78	59	137
Lin, Wei-Shen Wilson	11	5	16
St Luke's Quakertown	11	5	16
Lippe, Ronald Watson	231	99	330
Pinnacle Health	231	99	330
Liss, Robert Gary	1	24	25
Forbes	1	15	16
UPMC Presby Shadyside	0	8	8
West Penn	0	1	1
Little, Thomas Allan	30	0	30
Gettysburg	30	0	30
Loguidice, Vito Anthony	1	0	1
Easton	1	0	1
Long, Joy Louise	5	0	5
Ephrata Community	3	0	3
Lancaster General	2	0	2

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Longenecker, Stephen Carroll	331	117	448
Reading	331	117	448
Lonner, Jess Hanley	191	0	191
Main Line Bryn Mawr	191	0	191
Lorei, Matthew Peter	70	66	136
Chestnut Hill	23	22	45
Temple University	47	44	91
Lowry, Don Allen	37	5	42
Conemaugh Valley Memorial	37	5	42
Luchetti, Wayne Thomas	96	39	135
Coordinated Health Ortho	92	37	129
Lehigh Valley/Muhlenberg	3	2	5
Surg Spec/Coordinated	1	0	1
Lupo, Robert Anthony	51	28	79
Saint Vincent	51	28	79
Lutton Jr, Jeffrey Scott	29	15	44
Chambersburg	29	15	44
Lyet, Jean-Paul	0	104	104
Lancaster General	0	104	104
Lynott, John Arthur	2	10	12
Geisinger Wyoming Valley	2	10	12
Lyons, Christopher J	35	21	56
Brandywine	30	20	50
Chester County	5	1	6
Mackell, Thomas Edward	26	11	37
Doylestown	26	11	37
Maggitti, Michael John	31	14	45
Brandywine	23	7	30
Main Line Paoli	8	7	15
Maish, David Raymond	77	71	148
Milton S Hershey	77	71	148
Malumed, Jeffrey	31	0	31
Taylor	31	0	31
Mandarino, Michael James	10	1	11
Roxborough Memorial	10	1	11
Mandel, Richard Jay	0	1	1
Mercy Suburban	0	1	1
Mannherz, Robert Elmer	77	31	108
Holy Redeemer	77	31	108
Mansmann, Kevin Alexander	25	17	42
Main Line Paoli	25	17	42
Manta, John Patrick	21	0	21
Brandywine	14	0	14
Chester County	7	0	7
Manziona, Marc	13	8	21
Holy Redeemer	13	8	21

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Marchinski, Leonard Joseph	6	1	7
Reading	6	1	7
Markmann, William John	49	16	65
Holy Redeemer	22	9	31
Jeanes	27	7	34
Martin Jr, John Albert	33	0	33
St Joseph/Reading	6	0	6
Surg Institute of Reading	27	0	27
Martin, James Stanton	129	86	215
Mount Nittany	129	86	215
Martinez, Zeferino	6	10	16
Geisinger-Bloomsburg	6	10	16
Mason, Gregg Claude	57	24	81
Saint Vincent	57	24	81
Matheny, Jeffrey Michael	37	11	48
Jefferson	36	11	47
UPMC McKeesport	1	0	1
Mattucci Jr, James M	52	14	66
Tyler Memorial	1	0	1
Wilkes-Barre General	51	14	65
Mauro, Craig Stephen	2	0	2
UPMC St Margaret	2	0	2
Mazur, Donald William	61	11	72
Main Line Paoli	61	11	72
McClain III, Edward J	140	126	266
UPMC St Margaret	140	126	266
McClellan, Chris Stephen	227	121	348
Nason	41	16	57
Tyrone	51	33	84
UPMC Altoona	135	72	207
McCulloch, Patrick Thomas	0	1	1
Washington	0	1	1
McGann, Robert David	110	32	142
Ellwood City	24	7	31
Jameson Memorial	86	25	111
McGlynn, James Thomas	31	8	39
Crozer Chester	4	1	5
Riddle Memorial	10	2	12
Springfield	17	5	22
McGough, Richard Louis	28	26	54
UPMC Presby Shadyside	28	26	54
McHugh, Dennis P	48	28	76
Chestnut Hill	7	3	10
Einstein Montgomery	8	2	10
Mercy Suburban	31	19	50
Nazareth	2	4	6

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
McKirgan, Craig Charles	37	22	59
Indiana Regional	37	22	59
McPhilemy, John J	24	9	33
Aria Health	4	0	4
Main Line Lankenau	20	9	29
Meade, Thomas Daniel	528	0	528
Coordinated Health Ortho	279	0	279
Hazleton General	33	0	33
Lehigh Valley	64	0	64
Palmerton	2	0	2
St Luke's Miners	82	0	82
Surg Spec/Coordinated	68	0	68
Mears, Dana Christopher	285	384	669
UPMC Presby Shadyside	285	384	669
Melegari, Todd Matthew	1	0	1
Easton	1	0	1
Meller, Menachem M	33	19	52
Mercy Philadelphia	33	19	52
Mendez, Armando Alejandro	20	5	25
Taylor	20	5	25
Menkowitz, Bruce Jay	74	30	104
Einstein Montgomery	74	29	103
Mercy Suburban	0	1	1
Messick, Kyle Jason	89	38	127
Gettysburg	89	38	127
Michael, Stanley Peter	31	34	65
Jeanes	13	9	22
Temple University	18	25	43
Miller Jr, Ivan Leroy	64	20	84
Gettysburg	64	20	84
Miller, Curt Dwight	60	48	108
Delaware County Memorial	44	35	79
Riddle Memorial	11	9	20
Springfield	5	4	9
Miller, Michael David	214	128	342
Allegheny Valley	70	42	112
UPMC Presby Shadyside	52	37	89
UPMC St Margaret	92	49	141
Mira, Allan Joseph	38	3	41
Carlisle Regional	38	3	41
Mitchell, Richard Joseph	1	1	2
Monongahela Valley	1	1	2
Mitrick, Michael F	40	17	57
Memorial York	11	4	15
OSS Orthopaedic	29	13	42

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Mogerman, Jeffrey Albert	45	14	59
Wayne Memorial	45	14	59
Moliner Jr, Kenneth Gerard	1	2	3
Jameson Memorial	1	2	3
Mooar, Pekka Antero	47	0	47
Chestnut Hill	9	0	9
Jeanes	1	0	1
Temple University	37	0	37
Moritz, Michael J	46	4	50
OSS Orthopaedic	46	4	50
Muccino, Paul Patrick	19	8	27
Wellspan Surgery & Rehab	16	6	22
York	3	2	5
Mulholland, Jeffrey Bolton	80	0	80
Heritage Valley Sewickley	80	0	80
Muller, Gary W	28	9	37
Jeanes	28	9	37
Murphy, James Edward	6	3	9
Geisinger Wyoming Valley	6	3	9
Muser, Daniel Edward	8	1	9
Gnaden Huetten Memorial	4	0	4
Palmerton	4	1	5
Mutschler, Thomas Anthony	108	37	145
Canonsburg	108	37	145
Muzzonigro, Thomas S	246	65	311
Butler Memorial	245	65	310
UPMC Passavant	1	0	1
Mystakas, Fotis	13	3	16
Good Samaritan/Lebanon	13	3	16
Nabors, Eric D	18	22	40
St Clair Memorial	18	22	40
Nachtigall, Dean A	11	7	18
Memorial York	8	6	14
York	3	1	4
Nartatez, Mark Andrew	31	18	49
Clearfield	31	18	49
Nazar, Jose Enrique	74	33	107
Endless Mountains	74	33	107
Nazarian, David George	195	277	472
Pennsylvania	195	277	472
Nechleba, Jeffrey Anthony	24	31	55
UPMC Hamot	24	31	55
Nelson, Charles Lenwood	170	180	350
Penn Presbyterian	128	140	268
Pennsylvania	42	40	82

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Neuman, Paul C	37	17	54
St Joseph/Reading	25	10	35
Surg Institute of Reading	12	7	19
Neuschwander, David Charles	17	0	17
Forbes	16	0	16
UPMC Presby Shadyside	1	0	1
Nevulis, John James	22	6	28
Einstein Montgomery	5	0	5
Mercy Suburban	1	0	1
Phoenixville	16	6	22
Nolan Jr, John Philip	5	6	11
St Mary	5	6	11
Nord, David Scott	30	10	40
Reading	30	10	40
Nwachuku, Chinenye Okezie	11	20	31
St Luke's/Anderson	0	1	1
St Luke's/Bethlehem	11	19	30
O'Brien III, Frank David	32	40	72
Geisinger Wyoming Valley	3	0	3
Wilkes-Barre General	29	40	69
Odgers IV, Charles Justice	8	2	10
Main Line Paoli	8	2	10
Oliverio, James Anthony	108	41	149
Carlisle Regional	108	41	149
Oni, Julius Kunle	10	5	15
Albert Einstein	10	5	15
Oplinger, Michael John	68	36	104
Carlisle Regional	68	36	104
Overholt, David John	28	19	47
Good Samaritan/Lebanon	28	19	47
Pacek, Corey Andrew	0	1	1
UPMC Passavant	0	1	1
Paglia, John Anthony	2	0	2
Pocono	2	0	2
Pagnotto, Michael R	45	68	113
Ohio Valley General	3	4	7
UPMC Passavant	34	57	91
UPMC St Margaret	8	7	15
Palmaccio Jr, Anthony Joseph	17	9	26
Aria Health	6	9	15
Nazareth	11	0	11
Pandelidis, Kirk Nicholas	0	1	1
York	0	1	1
Papas, Spiro Nicholas	95	40	135
UPMC St Margaret	95	40	135

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Parrish, William M	125	62	187
Lancaster General	13	8	21
Lancaster Regional	112	54	166
Parvizi, Javad	55	182	237
Rothman Ortho Specialty	10	67	77
Thomas Jefferson Univ	45	115	160
Passarelli, Ralph William	0	1	1
Excelsa Hlth Westmoreland	0	1	1
Patel, Amit Rasikbhai	2	0	2
OSS Orthopaedic	2	0	2
Pavlidis, Nikos Konstantinos	156	64	220
Phoenixville	9	5	14
Pottstown Memorial	147	59	206
Peff, Thomas Costo	6	2	8
Abington Memorial	6	2	8
Perricelli, Brett Christopher	73	78	151
St Clair Memorial	73	78	151
Petolillo Jr, John	15	5	20
Aria Health	11	4	15
St Mary	4	1	5
Piston, Robert W	127	65	192
Grove City	9	8	17
Sharon Regional	73	34	107
UPMC Horizon	45	23	68
Plakseychuk, Anton Y	69	116	185
Magee Womens/UPMC	68	116	184
UPMC Presby Shadyside	1	0	1
Polacheck, William Joseph	102	46	148
Holy Spirit	89	42	131
Pinnacle Health	13	4	17
Pollack, Lawrence Stuart	46	5	51
Memorial York	6	0	6
OSS Orthopaedic	40	5	45
Pollice, Paul Ferdinand	233	182	415
Lehigh Valley	134	133	267
St Luke's/Bethlehem	99	49	148
Pollock, Michael Stephen	7	3	10
Clarion	7	3	10
Poon, Edward Dai-Chee	68	21	89
Jefferson	61	18	79
St Clair Memorial	2	2	4
Washington	5	1	6
Port, Joshua	68	1	69
Nason	24	0	24
UPMC Altoona	44	1	45

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Post, Zachary Douglas	1	2	3
Thomas Jefferson Univ	1	2	3
Powers, Brian Allan	2	4	6
Pocono	2	4	6
Pressman, Ari Edward	119	78	197
Jefferson	2	4	6
Monongahela Valley	34	24	58
St Clair Memorial	2	3	5
UPMC Mercy	16	10	26
Uniontown	65	37	102
Puccio, Steven Thomas	16	11	27
St Luke's/Bethlehem	16	11	27
Puleo, Samuel Michael	48	25	73
Einstein Montgomery	48	25	73
Purtill, James Joseph	288	284	572
Rothman Ortho Specialty	25	11	36
Thomas Jefferson Univ	263	273	536
Pushkarewicz, Michael John	0	1	1
Jennersville Regional	0	1	1
Raab, David C	11	4	15
Main Line Paoli	8	3	11
Phoenixville	3	1	4
Raab, Gregory Ernest	140	78	218
Milton S Hershey	140	78	218
Rackish, Mark Adam	43	52	95
Williamsport Regional	43	52	95
Radkowski, Christopher Anthony	49	0	49
Jefferson	22	0	22
UPMC McKeesport	27	0	27
Raklewicz, Michael C	102	41	143
Wilkes-Barre General	102	41	143
Ranelle, Robert G	6	11	17
Clarion	6	11	17
Ravasio, Donald Anthony	33	14	47
UPMC Mercy	33	14	47
Ray, Richard Louis	18	2	20
Allegheny General	18	2	20
Reddy, Chandra Shekar	5	10	15
St Luke's Miners	5	10	15
Rees, David Barker	14	5	19
Reading	14	5	19
Reid, James Henry	24	24	48
Coordinated Health Ortho	0	4	4
Easton	24	20	44
Reinhardt, David Eugene	34	5	39
Holy Redeemer	34	5	39

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Reish, Matthew William	7	0	7
Evangelical Community	7	0	7
Renz, Thomas J	167	112	279
Ephrata Community	111	65	176
Lancaster General	54	45	99
Lancaster Regional	2	2	4
Reynolds, Dermot M	266	178	444
Robert Packer	266	178	444
Richards Jr, Robert Nathaniel	62	23	85
Chambersburg	62	23	85
Richards, Richard Stephen	8	15	23
Chambersburg	8	15	23
Richardson, Mark W	19	12	31
Wellspan Surgery & Rehab	15	8	23
York	4	4	8
Richman, Jory Donald	28	22	50
UPMC Mercy	28	22	50
Ridella, Peter James	17	13	30
Conemaugh Valley Memorial	8	8	16
Windber	9	5	14
Ring, Thomas Milleret	11	10	21
Lancaster General	11	10	21
Ripepi, Vincent J	40	27	67
Advanced Surgical	24	11	35
Canonsburg	2	3	5
Monongahela Valley	8	4	12
St Clair Memorial	5	4	9
Washington	1	5	6
Ritz, George	14	4	18
Wilkes-Barre General	14	4	18
Robertson, Roger John	138	45	183
Chambersburg	138	45	183
Rocco, Jack Frank	83	33	116
UPMC Altoona	83	33	116
Rodgers, John Charles	32	13	45
Lancaster General	32	13	45
Roeshot, Douglas Edward	125	62	187
Mount Nittany	125	62	187
Rogal, Michael J	52	20	72
UPMC East	52	20	72
Rogusky, Edwin John	88	17	105
Mount Nittany	88	17	105
Rosenfeld, Karl	19	0	19
Main Line Paoli	11	0	11
Phoenixville	8	0	8

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Rothacker Jr, Gerald Walter	128	52	180
Lancaster General	128	52	180
Rothenberg, Mitchell Howard	16	9	25
UPMC Mercy	16	9	25
Rothman, Richard H	212	174	386
Rothman Ortho Specialty	44	49	93
Thomas Jefferson Univ	168	125	293
Rowe, Angela Wai-Chung	46	18	64
Nason	24	9	33
UPMC Altoona	22	9	31
Rubbo, Ernest Robert	61	26	87
Pinnacle Health	61	26	87
Ruder, Craig Richard	11	0	11
Wellspan Surgery & Rehab	10	0	10
York	1	0	1
Rudolph, Jason Willer	2	0	2
Easton	2	0	2
Ruggiero Jr, Robert Anthony	11	10	21
Main Line Paoli	11	10	21
Ruggiero, Robert Anthony	66	41	107
Main Line Paoli	61	40	101
Phoenixville	5	1	6
Ruht, Barry A	28	0	28
Lehigh Valley/Muhlenberg	28	0	28
Rutter, Chad M	19	10	29
OSS Orthopaedic	19	10	29
Sacco, James M	4	1	5
St Luke's/Anderson	4	1	5
Sachdev, Ranjan	20	7	27
Easton	20	7	27
Sachs, Ira C	11	0	11
Main Line Lankenau	11	0	11
Saing, Minn Htut	19	0	19
Albert Einstein	19	0	19
Samujh, Christopher A	6	4	10
Moses Taylor	6	4	10
Sauber, Timothy Joseph	14	14	28
Allegheny General	14	14	28
Saxena, Arjun	1	4	5
St Mary	1	4	5
Scarpino, Leo Joseph	84	124	208
Lehigh Valley/Muhlenberg	2	0	2
Sacred Heart/Allentown	38	58	96
Surg Spec/Coordinated	44	66	110

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Schaaf, H William	77	34	111
Phoenixville	36	17	53
Physicians Care	40	17	57
Pottstown Memorial	1	0	1
Scheel, Michael John	52	52	104
Advanced Surgical	35	32	67
St Clair Memorial	3	1	4
Washington	14	19	33
Schmaltz, Harry W	238	121	359
Geisinger-Community	238	121	359
Schmidt, Richard George	8	8	16
Eastern Regional	0	6	6
Main Line Lankenau	8	2	10
Schroeder, Richard David	30	18	48
Conemaugh Valley Memorial	30	18	48
Schutt, Corey Robbins	3	8	11
UPMC Altoona	3	8	11
Schwartz, Mark Allan	18	9	27
Phoenixville	0	1	1
Pottstown Memorial	18	8	26
Schwartz, Todd D	31	21	52
Holy Redeemer	31	21	52
Schweizer, Scott Kevin	21	0	21
Allegheny General	5	0	5
Canonsburg	11	0	11
St Clair Memorial	5	0	5
Scornavacchi Jr, Joseph M	78	34	112
Reading	78	34	112
Scullin III, John Patrick	45	13	58
Edgewood Surgical	38	9	47
UPMC Horizon	7	4	11
Sebastianelli, Wayne Joseph	38	29	67
Mount Nittany	38	29	67
Seel, Michael Jude	100	41	141
Allegheny General	0	4	4
UPMC Passavant	25	12	37
West Penn	75	25	100
Selgrath, Christopher Edward	51	39	90
Aria Health	51	39	90
Sensiba, Paul Richard	19	0	19
Mount Nittany	19	0	19
Seon, Carl Yang-II	17	0	17
UPMC Hamot	17	0	17

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Serene, James William	19	17	36
Mount Nittany	19	17	36
Sewecke, Jeffrey J	79	51	130
Allegheny General	79	51	130
Sexton, Scott E	0	10	10
Lehigh Valley	0	10	10
Shaffer, James Andrew	7	11	18
Chambersburg	6	6	12
Reading	0	3	3
St Joseph/Reading	1	2	3
Shakil, Mohammed Saleh	2	0	2
Schuykill-South Jackson	2	0	2
Shannon, Brian David	33	47	80
Sharon Regional	33	47	80
Sharkey, Peter Francis	349	274	623
Physicians Care	110	102	212
Riddle Memorial	236	165	401
Rothman Ortho Specialty	3	7	10
Shatouhy, Joseph	6	4	10
Mercy Fitzgerald	6	4	10
Sheba, David Ronald	51	26	77
Uniontown	51	26	77
Sheba, Justin John	24	13	37
Uniontown	24	13	37
Sherbondy, Paul Strawn	5	4	9
Mount Nittany	5	4	9
Sheth, Neil Perry	50	55	105
Penn Presbyterian	2	2	4
Pennsylvania	48	53	101
Shilling, Jack Watkins	26	67	93
Albert Einstein	8	1	9
Aria Health	18	66	84
Sicuranza, Michael John	23	0	23
OSS Orthopaedic	20	0	20
York	3	0	3
Sieger, David Douglas	31	7	38
Lancaster General	31	7	38
Simmons Jr, Cheston	100	84	184
Chester County	100	84	184
Simonelli, Paul M	27	9	36
Ephrata Community	11	2	13
Good Samaritan/Lebanon	10	3	13
Heart of Lancaster	2	1	3
Lancaster Regional	4	3	7
Singanamala, Naveen	10	3	13
Elk Regional	10	3	13

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Singer, Robert Joseph	78	28	106
Nason	28	11	39
UPMC Altoona	50	17	67
Siska, Peter Allen	36	28	64
Magee Womens/UPMC	30	19	49
UPMC Presby Shadyside	6	9	15
Slagle, Richard Bryan	52	2	54
Good Samaritan/Lebanon	52	2	54
Smith, Donald Bryan	24	33	57
UPMC Northwest	24	33	57
Smith, Eric Brandon	193	160	353
Main Line Bryn Mawr	24	33	57
Physicians Care	38	42	80
Riddle Memorial	131	85	216
Smith, Gary Lee	61	48	109
Heritage Valley Sewickley	61	48	109
Smith, Harvey Edward	0	1	1
Pennsylvania	0	1	1
Smith, Jack D	44	13	57
Excelsa Hlth Westmoreland	44	13	57
Smucker, Craig Gordon	9	11	20
Jennersville Regional	9	11	20
Snyder, Barry Jay	1	0	1
St Mary	1	0	1
Sobolewski, Michael David	4	1	5
Somerset	4	1	5
Soffer, Stephen Randolph	77	17	94
Reading	77	17	94
Song, Suzette Jimi	25	0	25
OSS Orthopaedic	25	0	25
Sotereanos, Nicholas G	165	133	298
Allegheny General	165	133	298
Sotos, Lazaros N	10	6	16
ACMH	10	6	16
Sotos, Peter Nicholas	8	2	10
ACMH	8	2	10
Spencer, Brian Allen	16	12	28
Mount Nittany	16	12	28
Spingola, Charles Edward	65	39	104
DuBois Regional	65	39	104
Stabler, Craig Lauren	40	0	40
Williamsport Regional	40	0	40
Stansbury, Neal Alan	5	0	5
Westfield (closed)	5	0	5

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Stapor, David J	64	30	94
Jefferson	58	28	86
St Clair Memorial	1	0	1
Washington	5	2	7
Star, Andrew Michael	317	344	661
Abington Memorial	187	206	393
Lansdale	130	138	268
Steele, John Floyd	43	17	60
UPMC Horizon	43	17	60
Stefanovski, Nick	99	39	138
UPMC Hamot	99	39	138
Steinfeld, Paul Howard	17	12	29
Aria Health	17	12	29
Stelmach, John P	229	105	334
Reading	7	5	12
St Joseph/Reading	76	40	116
Surg Institute of Reading	146	60	206
Stewart, Daniel Thomas	0	1	1
Jefferson	0	1	1
Stilwell, Mason S	73	58	131
Robert Packer	73	58	131
Stollsteimer, George Thomas	24	0	24
St Mary	24	0	24
Stonestreet, Matthew Joseph	1	2	3
Sharon Regional	1	2	3
Stoudt, Calvin David	36	9	45
Schuylkill-East Norwegian	23	3	26
Schuylkill-South Jackson	13	6	19
Stracci, Joseph Paul	78	27	105
Advanced Surgical	61	19	80
Canonsburg	1	0	1
Southwest Regional MC	12	4	16
Washington	4	4	8
Strzelecki, Zigmund F	15	7	22
St Luke's Quakertown	15	7	22
Suarez, Paul Adrien	21	16	37
Robert Packer	21	16	37
Suk, Michael	2	1	3
Geisinger/Danville	2	1	3
Sullivan, Craig A	14	3	17
Memorial York	14	3	17
Sunday, James Michael	19	7	26
Coordinated Health Ortho	12	4	16
Easton	1	1	2
Lehigh Valley/Muhlenberg	5	2	7
Surg Spec/Coordinated	1	0	1

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Swanson, Ernest William	20	7	27
Sharon Regional	20	7	27
Szabo, Scott Joshua	0	1	1
Butler Memorial	0	1	1
Terefenko, Kevin Michael	142	39	181
Reading	13	2	15
St Joseph/Reading	4	0	4
Surg Institute of Reading	125	37	162
Terpstra, Daniel John	38	11	49
Coordinated Health Ortho	0	1	1
Surg Spec/Coordinated	38	10	48
Theis, Steven William	1	0	1
Washington	1	0	1
Thomas, Stephen John	215	66	281
Heritage Valley Sewickley	215	66	281
Thomas, Victor John	82	52	134
Ohio Valley General	26	11	37
UPMC Passavant	56	41	97
Tissenbaum, Allan	33	11	44
Washington	33	11	44
Tom, Albert	55	10	65
Chambersburg	55	10	65
Tom, James Albert	15	0	15
Hahnemann University	15	0	15
Tomaszewski, Theodore James	131	38	169
Regional Scranton	131	38	169
Tonnies, David Alan	54	15	69
Edgewood Surgical	16	0	16
Sharon Regional	34	12	46
UPMC Horizon	4	3	7
Towsen, Adrienne Jeannine	18	0	18
Chester County	18	0	18
Tranovich, Michael Anthony	38	23	61
Jefferson	2	1	3
UPMC McKeesport	36	22	58
Trevlyn, Dean William	39	0	39
Delaware County Memorial	15	0	15
Riddle Memorial	5	0	5
Springfield	19	0	19
Triantafyllou, Steven John	18	13	31
OSS Orthopaedic	18	12	30
York	0	1	1
Troxell, Corey Richard	14	0	14
Ephrata Community	7	0	7
Lancaster General	7	0	7

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Tucker, Jon Barry	83	26	109
St Clair Memorial	83	26	109
Tymon, Timothy Patrick	106	0	106
Lancaster General	106	0	106
Tyndall, William Andrew	85	1	86
J C Blair Memorial	16	0	16
Nason	17	0	17
Tyrone	28	0	28
UPMC Altoona	24	1	25
Uberti, Edward Jude	30	5	35
UPMC Horizon	30	5	35
Vakil, Jeffrey Jahan	27	109	136
Abington Memorial	21	82	103
Lansdale	6	27	33
Van Kleunen, Jonathan P	15	27	42
Nason	5	5	10
Tyrone	0	1	1
UPMC Altoona	10	21	31
Vanett, Bruce B	6	4	10
Chestnut Hill	1	0	1
Temple University	5	4	9
VanGiesen, Peter James	25	0	25
OSS Orthopaedic	23	0	23
York	2	0	2
Vegari, David N	4	2	6
Main Line Lankenau	4	2	6
Vena, Vincent E	45	9	54
Conemaugh Valley Memorial	45	9	54
Vernace, Joseph Victor	315	65	380
Main Line Bryn Mawr	315	65	380
Ververeli, Prodromos A	345	177	522
Lehigh Valley	345	177	522
Vikoren, Thomas Harold	79	92	171
Doylestown	79	92	171
Vresilovic, Edward Joseph	2	2	4
Milton S Hershey	2	2	4
Wagener, Christopher Frank	1	0	1
Surg Spec/Coordinated	1	0	1
Wallace, Lawrence	7	3	10
J C Blair Memorial	7	3	10
Wang Jr, Peter	45	9	54
Doylestown	5	2	7
Lansdale	40	7	47
Ward, William Goode	34	5	39
Robert Packer	34	5	39

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Warner, Daniel Jeffrey	1	0	1
Waynesboro	1	0	1
Watson, Anthony Douglas	9	3	12
Allegheny Valley	2	0	2
UPMC St Margaret	7	3	10
Weidner, Paul Louis	131	114	245
Grand View	131	114	245
Weiss Jr, Carl B	144	63	207
Coordinated Health Ortho	142	57	199
Lehigh Valley/Muhlenberg	2	6	8
Weiss, Kurt Richard	2	5	7
UPMC Presby Shadyside	2	5	7
Weiss, Michael William	89	42	131
UPMC Passavant	89	42	131
Weiss, Robert Frederick	41	28	69
Jefferson	41	28	69
Welker, David Mathew	10	0	10
Advanced Surgical	8	0	8
St Clair Memorial	1	0	1
Washington	1	0	1
Werner, Michael	7	1	8
Holy Spirit	7	1	8
Werries, Gerard Joseph	0	1	1
Ohio Valley General	0	1	1
Westphal, Thomas Russell	140	59	199
Lancaster General	139	59	198
Lancaster Regional	1	0	1
Westrick, Edward Ryan	0	1	1
Allegheny General	0	1	1
Wheeler, Thomas Brooks	26	0	26
Schuylkill-South Jackson	26	0	26
Whiddon, David Richmond	178	112	290
Wellspan Surgery & Rehab	151	98	249
York	27	14	41
Whitaker, Joseph Michael	13	16	29
Doylestown	13	16	29
Widmaier Jr, James Carl	0	37	37
Geisinger/Danville	0	37	37
Williams, John Morgan	42	11	53
Coordinated Health Ortho	28	3	31
Easton	1	1	2
Lehigh Valley/Muhlenberg	13	7	20
Williams, Mark Stanley	67	35	102
Berwick	32	12	44
Geisinger-Bloomsburg	35	23	58

Surgeon Volume

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Wilson, David Blair	18	10	28
Indiana Regional	18	10	28
Wolf, Laurence Rand	20	10	30
Main Line Lankenau	20	10	30
Wolfe, Raymond Michael	35	11	46
Crozer Chester	2	1	3
Riddle Memorial	9	8	17
Springfield	24	2	26
Woods, Robert M	36	27	63
UPMC Northwest	36	27	63
Worrell, Scott Philip	6	0	6
Waynesboro	6	0	6
Wright, Vonda Joy	1	0	1
UPMC Presby Shadyside	1	0	1
Yakish, Samuel Dale	36	42	78
Heritage Valley Beaver	36	42	78
Yardley, Trevor Wayne	7	4	11
Conemaugh Valley Memorial	2	2	4
Miners	3	2	5
Windber	2	0	2
Yates Jr, Adolph Joseph	86	61	147
UPMC Presby Shadyside	86	61	147

Surgeon/Hospital	Knee Cases	Hip Cases	Total Cases
Yucha, David Thomas	5	0	5
Crozer Chester	2	0	2
Springfield	3	0	3
Zamarin, Richard Iric	30	22	52
Main Line Paoli	19	19	38
Physicians Care	11	3	14
Zartman, Gary Matthew	122	150	272
Ephrata Community	74	53	127
Lancaster General	24	61	85
Lancaster Regional	24	36	60
Zeliger, Keith Laurence	0	2	2
DuBois Regional	0	2	2
Ziegler, Richard William	0	1	1
Chester County	0	1	1
Zimmerman, Marc S	5	4	9
Methodist Division/TJUH	5	4	9
Zurbach, James Michael	32	45	77
Crozer Chester	5	5	10
Riddle Memorial	5	18	23
Springfield	22	22	44

Medicare Payment (2012 Data)

Table Notes

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

Average Medicare Payment includes payments made to hospitals for Medicare fee-for-service patients (PA residents) who underwent knee/hip replacement and were discharged between January 1, 2012 and December 31, 2012—the most recent Medicare payment data available. This time period differs from that of the hospital readmission information reported where a different set of data was available. The Medicare payment data was obtained from the Centers for Medicare and Medicaid Services. Payments from Medicare Advantage plans (e.g., Medicare HMOs) are not included.

Average Hospital Charge for the Medicare fee-for-service patients is for the entire length of stay and was trimmed and case-mix adjusted. In almost all cases, hospitals typically receive actual payments from private insurers or government payers that are considerably less than the listed charge.

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Statewide			
Knee	8,503	\$12,286	\$51,535
Hip	3,594	\$11,822	\$53,598
ACMH			
Knee	16	\$11,073	\$20,911
Hip	11	\$11,178	\$19,668
Abington Memorial			
Knee	162	\$14,268	\$59,934
Hip	86	\$12,747	\$57,463
Advanced Surgical			
Knee	54	\$8,736	\$36,116
Hip	22	\$8,662	\$37,768
Albert Einstein			
Knee	25	\$20,403	\$89,858
Hip	NR	NR	NR
Allegheny General			
Knee	46	\$13,338	\$43,088
Hip	22	\$13,414	\$37,554
Allegheny Valley			
Knee	25	\$10,167	\$33,060
Hip	11	\$9,626	\$34,572

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Aria Health			
Knee	20	\$13,661	\$32,611
Hip	NR	NR	NR
Barix Clinics/PA			
Knee	NR	NR	NR
Hip	NR	NR	NR
Berwick			
Knee	14	\$9,709	NR
Hip	NR	NR	NR
Bradford Regional			
Knee	NR	NR	NR
Hip	NR	NR	NR
Brandywine			
Knee	24	\$12,128	\$150,678
Hip	14	\$12,453	NR
Butler Memorial			
Knee	49	\$10,026	\$36,111
Hip	27	\$10,077	\$39,660
Canonsburg			
Knee	27	\$12,030	\$26,080
Hip	18	\$9,706	\$25,437
Carlisle Regional			
Knee	92	\$10,094	\$61,932
Hip	34	\$10,499	NR
Chambersburg			
Knee	160	\$12,152	\$31,232
Hip	42	\$11,481	\$34,954
Charles Cole Memorial			
Knee	24	\$5,070	\$15,895
Hip	NR	NR	NR

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Chester County			
Knee	73	\$11,667	\$35,195
Hip	54	\$11,202	\$32,720
Chestnut Hill			
Knee	NR	NR	NR
Hip	NR	NR	NR
Clarion			
Knee	22	\$11,990	\$25,938
Hip	14	\$11,609	\$23,716
Clearfield			
Knee	NR	NR	NR
Hip	NR	NR	NR
Conemaugh Valley Memorial			
Knee	90	\$11,284	\$33,269
Hip	33	\$10,655	\$32,520
Coordinated Health Ortho			
Knee	201	\$11,068	\$39,426
Hip	52	\$10,357	\$39,702
Corry Memorial			
Knee	NR	NR	NR
Hip	NR	NR	NR
Crozer Chester			
Knee	29	\$17,271	\$126,480
Hip	NR	NR	NR
Delaware County Memorial			
Knee	51	\$15,335	\$95,183
Hip	25	\$13,159	\$92,032
Doylestown			
Knee	129	\$12,152	\$57,025
Hip	56	\$11,426	\$58,047

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
DuBois Regional			
Knee	44	\$12,756	\$32,708
Hip	21	\$11,642	\$36,364
Eastern Regional			
Knee	NR	NR	NR
Hip	NR	NR	NR
Easton			
Knee	45	\$13,734	\$162,079
Hip	22	\$12,846	\$146,608
Edgewood Surgical			
Knee	32	\$9,878	\$47,738
Hip	NR	NR	NR
Einstein Montgomery			
Knee	NR	NR	NR
Hip	NR	NR	NR
Elk Regional			
Knee	33	\$10,115	\$33,179
Hip	NR	NR	NR
Ellwood City			
Knee	NR	NR	NR
Hip	NR	NR	NR
Endless Mountains			
Knee	24	\$6,635	\$33,850
Hip	14	\$6,059	\$32,379
Ephrata Community			
Knee	68	\$11,074	\$36,368
Hip	39	\$10,037	\$36,768
Evangelical Community			
Knee	101	\$11,246	\$29,336
Hip	44	\$10,248	\$31,343

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Excelsa Hlth Westmoreland			
Knee	58	\$10,403	\$22,903
Hip	21	\$10,684	\$24,701
Forbes			
Knee	34	\$10,576	\$36,141
Hip	14	\$10,716	\$36,662
Geisinger Wyoming Valley			
Knee	91	\$11,895	\$66,260
Hip	51	\$10,772	\$71,057
Geisinger-Bloomsburg			
Knee	39	\$9,943	\$51,641
Hip	14	\$10,113	\$49,139
Geisinger-Community			
Knee	136	\$12,085	\$48,302
Hip	65	\$10,102	\$44,476
Geisinger-Lewistown			
Knee	16	\$11,753	\$35,304
Hip	NR	NR	NR
Geisinger/Danville			
Knee	75	\$14,765	\$70,798
Hip	38	\$14,504	\$72,214
Gettysburg			
Knee	48	\$11,475	\$37,555
Hip	11	\$11,679	\$39,924
Gnaden Huetten Memorial			
Knee	35	\$11,505	\$59,762
Hip	NR	NR	NR
Good Samaritan/Lebanon			
Knee	80	\$11,166	\$42,362
Hip	32	\$10,964	\$47,566

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Grand View			
Knee	109	\$11,166	\$34,524
Hip	41	\$10,849	\$34,573
Grove City			
Knee	NR	NR	NR
Hip	NR	NR	NR
Hahnemann University			
Knee	NR	NR	NR
Hip	NR	NR	NR
Hanover			
Knee	75	\$11,877	\$30,284
Hip	30	\$11,448	\$36,826
Hazleton General			
Knee	26	\$10,994	\$60,742
Hip	NR	NR	NR
Heart of Lancaster			
Knee	NR	NR	NR
Hip	NR	NR	NR
Heritage Valley Beaver			
Knee	33	\$11,079	\$21,899
Hip	12	\$10,289	\$21,439
Heritage Valley Sewickley			
Knee	68	\$10,131	\$20,707
Hip	31	\$9,643	\$20,955
Highlands			
Knee	NR	NR	NR
Hip	NR	NR	NR
Holy Redeemer			
Knee	85	\$13,351	\$71,294
Hip	29	\$12,617	\$89,726

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Holy Spirit			
Knee	89	\$10,515	\$34,844
Hip	34	\$10,665	\$39,581
Hospital University PA			
Knee	NR	NR	NR
Hip	NR	NR	NR
Indiana Regional			
Knee	28	\$11,308	\$41,065
Hip	NR	NR	NR
J C Blair Memorial			
Knee	NR	NR	NR
Hip	NR	NR	NR
Jameson Memorial			
Knee	32	\$10,384	\$34,504
Hip	NR	NR	NR
Jeanes			
Knee	34	\$12,864	\$88,096
Hip	25	\$12,568	\$85,961
Jefferson			
Knee	67	\$10,017	\$31,245
Hip	30	\$9,896	\$30,679
Jennersville Regional			
Knee	NR	NR	NR
Hip	NR	NR	NR
Jersey Shore			
Knee	NR	NR	NR
Hip	NR	NR	NR
Kane Community			
Knee	NR	NR	NR
Hip	NR	NR	NR

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Lancaster General			
Knee	355	\$11,960	\$35,411
Hip	163	\$11,607	\$37,036
Lancaster Regional			
Knee	74	\$11,307	\$59,560
Hip	29	\$10,610	NR
Lansdale			
Knee	68	\$11,805	\$52,080
Hip	50	\$10,953	\$51,163
Latrobe Area			
Knee	17	\$10,816	\$23,657
Hip	NR	NR	NR
Lehigh Valley			
Knee	307	\$13,761	\$79,501
Hip	154	\$12,504	\$80,053
Lehigh Valley/Muhlenberg			
Knee	35	\$12,712	\$79,811
Hip	12	\$12,332	\$78,073
Lower Bucks			
Knee	NR	NR	NR
Hip	NR	NR	NR
Magee Womens/UPMC			
Knee	85	\$13,651	\$42,744
Hip	49	\$13,491	\$57,012
Main Line Bryn Mawr			
Knee	262	\$12,873	\$46,979
Hip	105	\$11,750	\$45,117
Main Line Lankenau			
Knee	93	\$12,599	\$53,873
Hip	62	\$12,751	\$54,501

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Main Line Paoli			
Knee	90	\$12,857	\$53,506
Hip	36	\$11,620	\$48,747
Meadville			
Knee	161	\$11,985	\$31,853
Hip	61	\$10,362	\$29,306
Memorial York			
Knee	23	\$12,592	\$31,668
Hip	NR	NR	NR
Memorial/Towanda			
Knee	NR	NR	NR
Hip	NR	NR	NR
Mercy Fitzgerald			
Knee	NR	NR	NR
Hip	NR	NR	NR
Mercy Philadelphia			
Knee	NR	NR	NR
Hip	NR	NR	NR
Mercy Suburban			
Knee	12	\$15,296	\$85,621
Hip	NR	NR	NR
Methodist Division/TJUH			
Knee	NR	NR	NR
Hip	NR	NR	NR
Millcreek Community			
Knee	NR	NR	NR
Hip	NR	NR	NR
Milton S Hershey			
Knee	77	\$15,127	\$38,133
Hip	65	\$15,167	\$44,702

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Miners			
Knee	NR	NR	NR
Hip	NR	NR	NR
Monongahela Valley			
Knee	31	\$10,213	\$33,457
Hip	11	\$10,086	\$35,822
Moses Taylor			
Knee	66	\$12,692	\$52,195
Hip	18	\$12,177	\$53,603
Mount Nittany			
Knee	204	\$10,448	\$46,804
Hip	84	\$10,118	\$45,871
Nason			
Knee	17	\$12,631	\$33,797
Hip	NR	NR	NR
Nazareth			
Knee	36	\$12,434	\$58,775
Hip	24	\$11,921	\$81,301
OSS Orthopaedic			
Knee	170	\$9,432	\$30,737
Hip	60	\$9,293	\$35,113
Ohio Valley General			
Knee	NR	NR	NR
Hip	NR	NR	NR
Palmerton			
Knee	23	\$10,740	\$53,136
Hip	NR	NR	NR
Penn Presbyterian			
Knee	112	\$16,109	\$73,260
Hip	52	\$16,218	\$81,104

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Pennsylvania			
Knee	150	\$20,438	\$67,009
Hip	78	\$16,724	\$69,062
Phoenixville			
Knee	20	\$14,219	\$115,491
Hip	NR	NR	NR
Physicians Care			
Knee	NR	NR	NR
Hip	NR	NR	NR
Pinnacle Health			
Knee	310	\$12,846	\$32,512
Hip	112	\$12,615	\$32,602
Pocono			
Knee	19	\$13,784	\$36,639
Hip	17	\$14,326	\$32,176
Pottstown Memorial			
Knee	48	\$12,116	\$160,894
Hip	14	\$11,611	NR
Punxsutawney Area			
Knee	NR	NR	NR
Hip	NR	NR	NR
Reading			
Knee	232	\$13,023	\$38,321
Hip	93	\$12,747	\$42,803
Regional Scranton			
Knee	128	\$10,920	\$45,784
Hip	45	\$10,048	\$39,619
Riddle Memorial			
Knee	117	\$13,098	\$79,809
Hip	81	\$11,900	\$75,559

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Robert Packer			
Knee	73	\$12,272	\$29,401
Hip	40	\$12,289	\$31,456
Rothman Ortho Specialty			
Knee	72	\$16,806	\$55,598
Hip	54	\$11,638	\$45,062
Roxborough Memorial			
Knee	NR	NR	NR
Hip	NR	NR	NR
Sacred Heart/Allentown			
Knee	19	\$14,260	\$73,600
Hip	29	\$12,819	\$82,210
Saint Vincent			
Knee	95	\$12,530	\$69,315
Hip	53	\$11,767	\$60,824
Schuylkill-East Norwegian			
Knee	31	\$11,601	\$34,011
Hip	NR	NR	NR
Schuylkill-South Jackson			
Knee	22	\$12,440	\$40,329
Hip	NR	NR	NR
Sharon Regional			
Knee	41	\$10,876	\$47,965
Hip	21	\$11,348	\$49,382
Soldiers & Sailors			
Knee	16	\$14,486	\$31,816
Hip	NR	NR	NR
Somerset			
Knee	NR	NR	NR
Hip	NR	NR	NR

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Southwest Regional MC			
Knee	NR	NR	NR
Hip	NR	NR	NR
Springfield			
Knee	NR	NR	NR
Hip	NR	NR	NR
St Clair Memorial			
Knee	71	\$9,864	\$47,568
Hip	29	\$9,822	\$48,147
St Joseph's/Philadelphia			
Knee	NR	NR	NR
Hip	NR	NR	NR
St Joseph/Reading			
Knee	38	\$14,152	\$44,299
Hip	14	\$12,941	\$44,133
St Luke's Miners			
Knee	37	\$13,109	\$64,586
Hip	NR	NR	NR
St Luke's Quakertown			
Knee	16	\$11,665	\$89,161
Hip	NR	NR	NR
St Luke's/Anderson			
Knee	NR	NR	NR
Hip	NR	NR	NR
St Luke's/Bethlehem			
Knee	121	\$13,514	\$88,768
Hip	56	\$12,338	\$84,918
St Mary			
Knee	136	\$10,940	\$76,555
Hip	61	\$10,504	\$72,871

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Sunbury Community			
Knee	15	\$12,325	\$84,736
Hip	NR	NR	NR
Surg Institute of Reading			
Knee	94	\$11,423	\$53,598
Hip	34	\$11,030	\$59,098
Surg Spec/Coordinated			
Knee	68	\$11,269	\$37,140
Hip	19	\$9,858	\$40,504
Taylor			
Knee	21	\$14,622	\$127,583
Hip	NR	NR	NR
Temple University			
Knee	31	\$19,634	\$144,691
Hip	19	\$18,771	NR
Thomas Jefferson Univ			
Knee	105	\$17,499	\$61,582
Hip	94	\$15,408	\$56,518
Titusville Area			
Knee	NR	NR	NR
Hip	NR	NR	NR
Tyler Memorial			
Knee	NR	NR	NR
Hip	NR	NR	NR
Tyrone			
Knee	NR	NR	NR
Hip	NR	NR	NR
UPMC Altoona			
Knee	108	\$10,317	\$31,075
Hip	30	\$10,614	\$32,479

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
UPMC Bedford			
Knee	NR	NR	NR
Hip	NR	NR	NR
UPMC East			
Knee	NR	NR	NR
Hip	NR	NR	NR
UPMC Hamot			
Knee	87	\$10,718	\$50,100
Hip	39	\$10,609	\$53,896
UPMC Horizon			
Knee	44	\$10,856	\$43,451
Hip	18	\$10,566	\$47,362
UPMC McKeesport			
Knee	12	\$12,359	\$54,838
Hip	NR	NR	NR
UPMC Mercy			
Knee	39	\$13,840	\$65,052
Hip	19	\$13,743	\$65,748
UPMC Northwest			
Knee	25	\$9,852	\$39,856
Hip	13	\$10,654	\$37,920
UPMC Passavant			
Knee	48	\$10,468	\$50,485
Hip	35	\$9,650	\$55,684
UPMC Presby Shadyside			
Knee	117	\$13,082	\$94,084
Hip	117	\$12,862	\$89,504
UPMC St Margaret			
Knee	125	\$10,792	\$70,627
Hip	45	\$10,702	\$73,792

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
Uniontown			
Knee	42	\$11,869	\$16,176
Hip	13	\$11,226	\$17,065
Warren General			
Knee	26	\$12,974	\$45,739
Hip	NR	NR	NR
Washington			
Knee	12	\$11,901	\$31,803
Hip	NR	NR	NR
Wayne Memorial			
Knee	31	\$12,299	\$35,440
Hip	NR	NR	NR
Waynesboro			
Knee	NR	NR	NR
Hip	NR	NR	NR
Wellspan Surgery & Rehab			
Knee	NR	NR	NR
Hip	NR	NR	NR
West Penn			
Knee	NR	NR	NR
Hip	NR	NR	NR
Wilkes-Barre General			
Knee	196	\$10,278	\$85,450
Hip	46	\$10,076	\$93,992
Williamsport Regional			
Knee	155	\$11,586	\$38,799
Hip	66	\$10,968	\$37,712
Windber			
Knee	NR	NR	NR
Hip	NR	NR	NR

NR: Not reported. Fewer than 11 cases after exclusions.

Medicare Payment (2012 Data)

Hospital	Number of Cases	Average Medicare Payment	Average Hospital Charge
York			
Knee	34	\$13,013	\$34,057
Hip	16	\$12,604	\$34,168

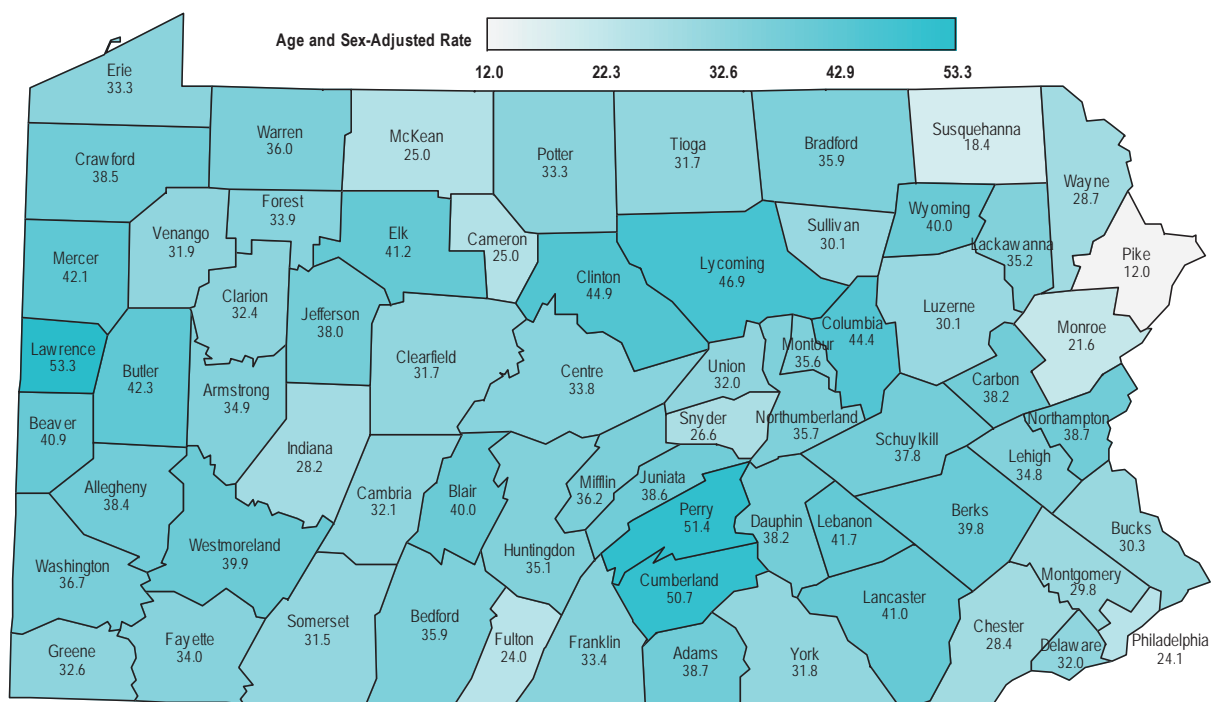
NR: Not reported. Fewer than 11 cases after exclusions.

County-Level Rates

The maps below display the knee and hip replacement rates per 10,000 residents for each of Pennsylvania's 67 counties. Rates were risk adjusted for age and sex differences among county populations. Rates include residents 20 years of age and older and were calculated using PHC4 discharge data and US Census Bureau data.

Knee replacement

The 2013 hospitalization rate for knee replacements ranged from 12.0 to 53.3 per 10,000 county residents. The statewide hospitalization rate for knee replacements was 34.4 per 10,000 residents.

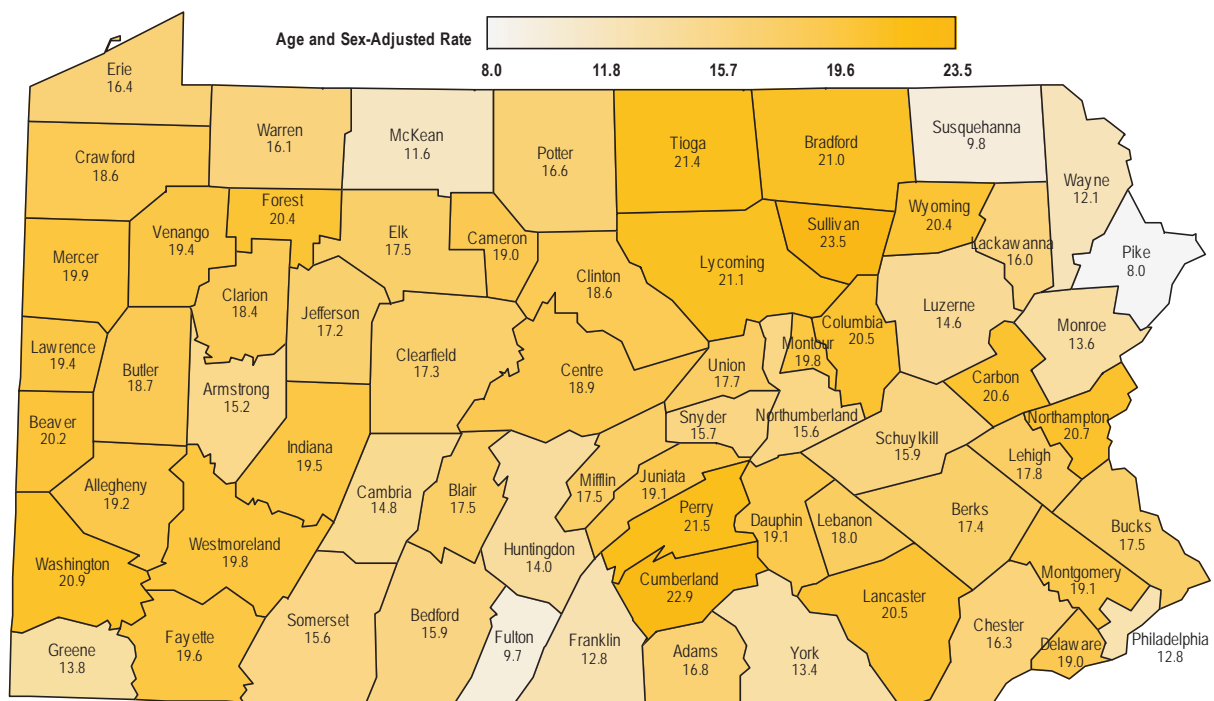


Note: Rates for counties with small populations are sensitive to small changes in the number of hospitalizations, so higher rates may be reflective of minor fluctuations in the number of hospitalizations.

County-Level Rates

Hip replacement

The 2013 hospitalization rate for hip replacements ranged from 8.0 to 23.5 per 10,000 county residents. The statewide hospitalization rate for hip replacements was 17.5 per 10,000 residents.



Note: Rates for counties with small populations are sensitive to small changes in the number of hospitalizations, so higher rates may be reflective of minor fluctuations in the number of hospitalizations.



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For More Information

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