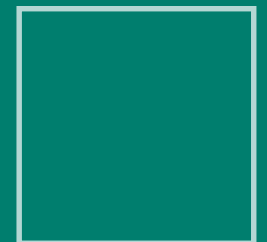
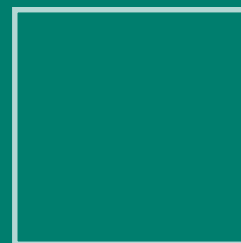


A HOSPITAL PERFORMANCE REPORT

15 COMMON MEDICAL PROCEDURES AND TREATMENTS

SOUTHWESTERN PENNSYLVANIA - REGION 1



Pennsylvania Health Care
Cost Containment Council
1999

A Pennsylvania Hospital Performance Report

15 Common Medical Procedures and Treatments

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The following counties are included in this report:

Allegheny
Armstrong
Beaver
Butler

Fayette
Greene
Washington
Westmoreland

Foreword

The Pennsylvania Health Care Cost Containment Council (PHC4) was established as an independent state agency by the General Assembly and Governor of the Commonwealth of Pennsylvania in 1986. To help improve the quality and restrain the cost of health care, PHC4 promotes health care competition through the collection, analysis and public dissemination of uniform cost and quality-related information. Thanks to the vision of its General Assembly, Pennsylvania has begun to build a new health care marketplace where purchasers, consumers, providers, payors, and policy makers can make more informed decisions about the delivery of health care. This *Hospital Performance Report* is one of a series of public reports designed to achieve this goal, and is based on a previous PHC4 report, the *Hospital Effectiveness Report*, published from 1989 through 1994. Additional information related to this report is posted on the PHC4 web site at www.phc4.org.

What is the purpose of this report?

Before we make a major purchase, we normally familiarize ourselves with as much information as we can gather about the available products or services. By comparing what we can learn about the quality of the product as well as what will be charged for it, we decide on what we believe is the best quality product for the best possible price. So it should be with health care services. Unfortu-

nately, the information available to consumers and purchasers to make such decisions is limited and often not widely accessible. PHC4's *Hospital Performance Report* can help to fill that vacuum of information and assist consumers and purchasers in making more informed health care decisions. This report can also serve as an aid to providers in pinpointing additional opportunities for quality improvement and cost containment. It should not be used in emergency situations.

What is included in the report?

- ◆ The report, which covers inpatient hospital discharges during 1997, is divided into nine regional versions. The information reported is hospital-specific.
- ◆ The report encompasses 15 selected Diagnosis Related Groups (DRGs). These DRGs have been chosen due to a combination of factors, including a high degree of variation in mortality, high volume, significant resource consumption, and diversity across diagnoses and procedures. These DRGs represent approximately 15% of all hospital discharges statewide. A description of the DRGs can be found on page 6.
- ◆ All Pennsylvania general and specialty acute care hospitals, regardless of bed size, are included. The number of cases, a risk-adjusted mortality rating, a risk-adjusted average length of hospital stay, and the average hospital charge for each of the 15 DRGs form the basis of the report.

What is a DRG?

A Diagnosis Related Group (DRG) is a part of an illness classification system adopted and modified by the federal government for standard health care reporting and billing purposes by hospitals and insurance companies. The system groups similar medical conditions and surgical procedures into hundreds of illness

categories, called DRGs, based on the patients' diagnoses and procedures.

Where does the data come from?

Pennsylvania hospitals are required by law to submit certain information to the PHC4. The 1997 data compiled for the purpose of this publication is reported as it was submitted to the PHC4 by Pennsylvania hospitals. The data was subject to standard verification processes by the PHC4. In addition, hospitals are required to submit data which indicates in simple terms "how sick the patient was," or in technical jargon, a "severity score" or "risk-adjusted."

What is meant by risk-adjusted?

The PHC4 and the hospitals use a sophisticated patient risk classification system, called Atlas™, to abstract severity scores based on patient medical records and assign patients to an appropriate illness category. These categories, measured from the point of admission to the hospital, range from a patient who is not very sick to a patient who is near death. These severity scores allow PHC4 to adjust for patients at greater risk of dying or staying in the hospital for a longer period of time than other patients. The Atlas™ system was developed by MediQual Systems, Inc., now owned by Cardinal Information Corporation, and is based on the examination of numerous Key Clinical Findings such as lab tests, EKG readings, vital signs, patient's medical history, imaging results, pathology, age, sex, and operative/endoscopy findings. PHC4 also adjusts independently for the presence of cancer in the patient population included in this report.

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

The 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 and is still in its beginning stages. And while there may be a number of ways to define quality, for the purposes of this report, three factors are suggested:

- ◆ *Volume of Cases* - For each hospital, the number of cases treated in each DRG is reported. This can give a patient or a purchaser an idea of the experience each facility has in treating such patients. Studies have suggested that in at least some areas, the number of cases treated by a physician or hospital can be a factor in the success of the treatment. **Note:** Small or specialty hospitals may report low volume due to the unique patient population they serve or geographic location.
- ◆ *Risk-adjusted Mortality Rates* - PHC4 has used risk-adjusted mortality statistics as a measure of quality since it began publishing reports in 1989. Using a complex mathematical formula that assesses the degree of illness for patients upon their admission to the hospital, PHC4 calculates an expected, or predicted, number of deaths. In simple terms, based upon how sick the patients are, PHC4's method determines the number of patients one could reasonably expect to die in a given hospital in a given DRG. Hospitals that treat sicker patients are given "credit" in the system; more patients can be expected to die because they are more seriously ill.
- ◆ *Risk-adjusted Length of Stay* - This measure represents a step forward in the measurement of the quality of care. How long a patient stays in the hospital can reflect how successful the treatment is that the hospital provides, and has an impact on the resources brought to bear in delivering treatment. In much the same way as the mortality measure, key patient risk factors related to how sick patients are when admitted to the hospital are taken into account. These patient risk factors are then adjusted or accounted for so that, for example, a younger, healthier patient is not treated the same statistically as an older, sicker

one. These adjustments allow for an apples to apples comparison - patient severity or risk factors cannot explain the remaining differences. Yet after patient risk factors have been equalized among hospitals in the same treatment categories, there are still differences in the length of hospitalization.

The risk-adjusted mortality and risk-adjusted length of stay figures in this report are important measures of quality as well as resource utilization, but cannot be considered the only measures. The measurement of quality is highly complex and the information used to capture such measures is limited. A hospital death is frequently an unavoidable consequence of a patient's medical condition. Hospitals and physicians may do everything right and still the patient can die. However, after taking the significant risk factors available to the PHC4 into account, there are differences with respect to patient mortality and lengths of hospitalization that exist among hospitals.

Hospital charges

This report also includes the average hospital charge for each of the 15 medical and surgical treatment categories. While charges are what the hospital reports on the billing form, they may not accurately represent the amount a hospital receives in payment for the services it delivers. Hospitals usually receive less in actual payments than the listed charge. Charges do represent a benchmark as negotiations between hospitals and insurers regarding payment generally begin with the charge figure. And hospital charges are used almost universally by those attempting to assess the costs of health care. Until a better method is developed, hospital charges represent a consistent, while imperfect, way to discuss the relative costs of health care.

Understanding the tables

Symbols representing risk-adjusted mortality ratings are displayed in the report. These symbols reflect a comparison of a hospital's

actual mortality rate and its expected mortality rate. A dark ● circle means that the hospital's actual mortality rate was significantly higher, statistically speaking, than the rate expected or predicted by PHC4's mathematical formula. A circle with a dot inside ⊙ means that the difference between the two figures was insignificant - the hospital performed as expected. An open circle ○ means that the actual mortality rate was significantly lower, statistically, than the expected rate. Numbers related to these ratings are posted on PHC4's Internet site at www.phc4.org, or are available upon request from the PHC4 office.

The risk-adjusted average length of stay reflects the number of days spent in the hospital by patients that completed a full course of treatment. These data are adjusted to take important health risk factors into account.

The number of cases represent separate hospital admissions, not individual patients. A patient readmitted several times would be included each time in the number of cases. Hospitals that had fewer than five cases evaluated for risk-adjusted mortality were not rated; such low volume cannot be considered meaningful and, as such, the data are excluded. *Not Rated* appears in the table next to these hospitals. The hospital names have been shortened in many cases for formatting purposes. Finally, hospital names may be different today than in 1997 due to mergers. A list of hospital changes is included in the back of the report.

What is meant by non-compliance?

Hospitals are required under Pennsylvania law (Act 89) to submit timely, accurate health care data to the PHC4. The PHC4, acting upon the advice of its Technical Advisory Group, a panel of physicians and other health care experts, has determined that hospitals missing the required UB 92 data and/or patient severity scores in excess of 15% overall are non-compliant with state law and are excluded from this report. These hospitals are listed in the back of this report. Hospitals exceeding the 15% threshold in specific DRGs

are noted as *Non-Compliant* for those specific DRGs only. Although data specific to non-compliant hospitals is not included in this report, their records have been included in the overall research for in-hospital mortality, length of stay and charges and, as such, are reflected in the statewide and regional totals.

Additional information about the figures and symbols in this report as well as the methods used to calculate the statistics is available from the PHC4 upon request or can be accessed through the PHC4 web site at www.phc4.org.

FINAL WORDS - How to use the report

- ◆ **Patients/Consumers** - can use this report as an aid in making decisions about where to seek treatment for the categories detailed in this report. As with any health care decision, PHC4 urges the reader to use this report in conjunction with a physician or other health care provider when making a health care decision.
- ◆ **Group Benefits Purchasers/Insurers** - can use this report as part of a process in determining where employees, subscribers, members, or participants should go for their health care.
- ◆ **Health Care Providers** - can use this report as an aid in identifying opportunities for quality improvement and cost containment.
- ◆ **Policy Makers/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 quality health care options.
- ◆ **All of the previously mentioned groups** can use this information to raise important questions about why differences in the quality and efficiency of care exist.

This report can be used as a tool. The report should not be used to generalize about the overall quality of care at a hospital, but instead to examine hospital performance in specific treatment categories. This report does point out differences. The statistical methods used eliminate many of the clinical and medical differences among the patients in different hospitals thereby allowing us to explore the real differences in mortality and the length of hospitalization among hospitals. The pursuit of these issues can play an important and constructive role in raising the quality while restraining the cost of health care in the Commonwealth of Pennsylvania.

Acknowledgments

PHC4 wishes to thank its Data Systems Committee members, particularly chairman, Richard C. Dreyfuss (Hershey Foods Corporation) and vice-chairman Thomas F. Duzak (United Steelworkers of America), for their contribution to this report.

PHC4 also wishes to thank its Technical Advisory Group members, especially chairman David B. Nash, MD, MBA, for their contribution to PHC4's efforts over the years, including this report.

Diagnosis Related Group (DRG) Descriptions

Heart Attack (DRG's 121, 122, 123): Includes medical treatment only.

Heart Failure and Shock (DRG 127): Congestive heart failure is an abnormal accumulation of fluid due to the heart's inability to pump a normal amount of blood. The term "shock" refers to heart shock, not shock resulting from injury.

Major Vessel Operations except Heart (DRG 110): Surgery to the aorta and other major arteries and veins in the chest area surrounding the heart, but not within the heart. Does not include coronary bypass, cardiac catheterization or valve procedures.

Vascular Operations except Heart (DRG 478): Surgical procedures on blood vessels in the head, neck, and the upper and lower limbs.

Vascular Disorders except Heart (DRG 130): Medical treatment for disorders of blood vessels in the head, neck, aorta, upper and lower limbs. Examples include varicose veins, aneurysm, and diabetes-related circulatory disorders. Conditions not included are hypertension and coronary artery disease.

Stroke (DRG 14): Sudden "attack" caused by hemorrhaging, a blockage or narrowing of vessels within the brain. Transient ischemic attack (temporary stroke symptoms) is not included.

Adult Pneumonia (DRG 89): Simple pneumonia (inflammation of the lung) includes viral and bacterial pneumonia, as well as pleurisy – an inflammation of the membrane surrounding the lungs.

Adult Lung Infections (DRG 79): Infections other than simple pneumonia including tuberculosis, pneumonitis and certain rare pneumonias.

Lung Cancer (DRG 82): Includes the initial diagnosis as well as follow-up care for patients with malignant and benign tumors. Does not include chemotherapy.

Adult Diabetes (DRG 294): Includes patients over age 35 hospitalized for control of the blood sugar. Conditions include coma, ketoacidosis and fluid imbalances. Kidney, eye, nervous system or circulatory complications related to diabetes are not included.

Kidney Failure (DRG 316): Short and long-term kidney (renal) failure due to hypertension, heart disease, or unknown causes. Does not include dialysis or transplants.

Adult Septicemia (DRG 416): Also known as blood poisoning, is a system-wide infection of the patient's blood. Does not include post-operative or post-injury infections.

Gastrointestinal Bleeding: (DRG 174): Bleeding from stomach or intestinal ulcers, inflammation of the stomach, or inflammation of small sac-like areas in the wall of the colon.

Major Intestinal Procedures (DRG 148): Major surgical procedures involving the intestines, including colostomy and other repairs to the intestines. Not included are procedures for hernia, appendix or biopsies.

Hip Operations, except Replacements - Adults (DRG 210): Includes surgery for hip fracture; does not include replacements or amputations.

SOUTHWESTERN HOSPITALS

Heart Attack

Heart Failure and Shock

Major Vessel Operations EXCEPT HEART

	CASES	Heart Attack			CASES	Heart Failure and Shock			CASES	Major Vessel Operations EXCEPT HEART		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
AUMC - Allegheny Valley	276	⊙	7.7	\$15,370	464	●	5.8	\$9,962	10	⊙		
AUMC - Canonsburg	96	⊙	5.7	\$10,301	177	⊙	5.1	\$8,717	0	⊙		
Allegheny General	393	⊙	5.7	\$16,490	463	⊙	5.8	\$12,288	312	●		
Armstrong County Memorial	163	⊙	6.4	\$9,755	348	⊙	5.3	\$6,409	11	⊙		
Brownsville General	73	⊙	8.4	\$9,341	187	⊙	7.0	\$7,830	0	⊙		
Butler Memorial	226	⊙	5.6	\$11,714	381	⊙	5.4	\$8,474	26	⊙		
Children's - Pittsburgh	2	**Not	Rated		8	⊙	6.7	\$8,683	46	⊙		
Citizens General	196	⊙	6.7	\$13,116	389	⊙	5.5	\$9,248	9	⊙		
Forbes Regional	337	⊙	6.6	\$11,314	666	⊙	5.9	\$8,424	26	⊙		
Frick	176	⊙	7.2	\$10,650	444	⊙	6.3	\$7,540	5	⊙		
Greene County Memorial	51	⊙	3.8	\$7,040	145	⊙	3.8	\$5,572	0	⊙		
Highlands	63	⊙	5.0	\$8,325	137	⊙	5.5	\$8,261	0	⊙		
Jeannette District Memorial	127	⊙	6.8	\$9,306	319	⊙	5.6	\$7,204	6	**Not	Rated	
Jefferson	381	⊙	6.5	\$11,000	722	⊙	5.0	\$7,151	66	○		
Latrobe Area	333	⊙	6.2	\$13,815	647	⊙	4.9	\$8,450	32	⊙		
Magee-Womens	0				2	**Not	Rated		1	**Not	Rated	
McKeesport	202	⊙	8.0	\$15,205	438	⊙	6.7	\$9,928	12	⊙		
Medical Center - Beaver	181	⊙	7.2	\$13,425	668	⊙	6.0	\$8,305	86	⊙		
Mercy - Providence	34	⊙	8.5	\$15,335	161	○	6.6	\$9,365	3	**Not	Rated	
Monongahela Valley	227	⊙	8.3	\$13,591	529	⊙	6.3	\$10,293	33	⊙		

(Hospitals continued on next page.)

- Mortality significantly greater than Expected.
- ⊙ Mortality not significantly different than Expected.
- Mortality significantly less than Expected.
- * Did not submit required data.
- ** Had fewer than five cases evaluated.

Risk-adjusted: The Mortality and Average Length of Stay figures adjust for the degree of illness present when a patient is admitted to the hospital. Please see page 2.

Risk-adjusted Length of Stay: reflects the average number of days hospitalized.

SOUTHWESTERN HOSPITALS

Heart Attack

Heart Failure and Shock

Major Vessel Operations EXCEPT HEART

	CASES	Heart Attack			CASES	Heart Failure and Shock			CASES	Major Vessel Operations EXCEPT HEART		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
Monsour Medical	22	●	6.6	\$15,632	99	●	7.8	\$14,089	5	●		
Ohio Valley General	109	●	6.6	\$12,081	220	●	4.9	\$8,565	15	●		
Saint Francis	193	●	6.6	\$15,486	420	●	6.3	\$11,166	127	●		
Saint Francis Central	47	●	5.8	\$14,140	150	●	6.4	\$11,197	43	●		
Sewickley Valley	185	●	6.2	\$12,105	350	●	4.6	\$7,505	49	○		
St Clair Memorial	403	●	5.4	\$10,557	580	●	5.0	\$8,171	45	●		
Suburban Gen - Pittsburgh	143	●	7.7	\$11,866	246	●	6.4	\$8,796	11	●		
UPMC - Beaver Valley	91	●	6.8	\$10,609	213	○	6.1	\$7,614	1	**Not	Rated	
UPMC - Braddock	232	●	6.3	\$8,405	329	●	5.2	\$6,581	14	●		
UPMC - Passavant	203	●	6.4	\$14,760	474	●	6.0	\$10,734	29	●		
UPMC - Presbyterian	175	●	5.1	\$18,107	507	●	5.3	\$12,413	327	●		
UPMC - Shadyside	275	●	5.9	\$18,492	745	●	5.5	\$12,216	200	●		
UPMC - South Side	119	●	7.8	\$13,744	326	●	6.8	\$9,941	14	●		
UPMC - St Margaret	221	●	6.4	\$12,783	446	●	5.3	\$8,325	22	●		
Uniontown	223	●	7.1	\$8,074	591	●	6.0	\$6,133	11	●		
Washington	137	●	5.4	\$12,822	493	●	4.5	\$8,196	88	●		
Western Pennsylvania	251	●	6.8	\$18,569	609	●	5.3	\$12,300	100	●		
Westmoreland Regional	236	○	6.7	\$14,853	467	●	5.1	\$8,532	61	●		
Southwestern Pennsylvania	6,979		6.5	\$13,759	15,047		5.6	\$9,192	1,979			
Statewide	29,262		6.3	\$14,875	61,998		5.4	\$10,228	6,670			

- Mortality significantly greater than Expected.
- Mortality not significantly different than Expected.
- Mortality significantly less than Expected.
- * Did not submit required data.
- ** Had fewer than five cases evaluated.

Risk-adjusted: The Mortality and Average Length of Stay figures adjust for the degree of illness present when a patient is admitted to the hospital. Please see page 2.

Risk-adjusted Length of Stay: reflects the average number of days hospitalized.

SOUTHWESTERN HOSPITALS

Vascular Operations EXCEPT HEART

Vascular Disorders EXCEPT HEART

Stroke

	CASES	Vascular Operations			Vascular Disorders			Stroke		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE	Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE	Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
AUMC - Allegheny Valley	47	●	9.2	\$29,472	66	●	6.8	\$9,644	179	●
AUMC - Canonsburg	9	●	6.8	\$15,688	24	●	5.2	\$6,085	75	●
Allegheny General	283	●	6.8	\$27,357	191	●	5.8	\$10,906	442	●
Armstrong County Memorial	19	●	7.4	\$16,293	27	●	5.4	\$5,288	140	●
Brownsville General	1	**Not Rated			29	●	6.6	\$6,812	89	○
Butler Memorial	79	●	5.9	\$18,706	63	●	5.7	\$7,536	146	●
Children's - Pittsburgh	8	●	11.9	\$38,109	11	●	4.1	\$4,471	19	●
Citizens General	36	●	7.4	\$18,957	39	●	5.4	\$6,457	111	●
Forbes Regional	101	●	5.7	\$13,673	108	●	6.1	\$7,720	284	●
Frick	26	●	9.9	\$17,578	32	●	7.4	\$8,007	197	●
Greene County Memorial	0				17	●	4.6	\$4,529	52	○
Highlands	2	**Not Rated			11	●	6.0	\$5,214	71	●
Jeannette District Memorial	26	●	8.7	\$19,794	29	●	5.2	\$4,231	131	●
Jefferson	148	●	5.8	\$12,789	136	●	5.2	\$6,344	362	○
Latrobe Area	66	●	7.7	\$18,016	66	●	5.4	\$7,076	235	●
Magee-Womens	1	**Not Rated			1	**Not Rated			0	
McKeesport	39	●	7.5	\$19,657	60	●	6.1	\$8,461	186	●
Medical Center - Beaver	92	●	5.6	\$20,801	99	●	5.9	\$6,536	283	●
Mercy - Providence	10	●	13.1	\$27,794	37	●	7.2	\$7,970	74	●
Monongahela Valley	160	●	7.6	\$24,170	71	●	6.1	\$9,003	205	●

(Hospitals continued on next page.)

- Mortality significantly greater than Expected.
- ◉ Mortality not significantly different than Expected.
- Mortality significantly less than Expected.
- * Did not submit required data.
- ** Had fewer than five cases evaluated..

Risk-adjusted: The Mortality and Average Length of Stay figures adjust for the degree of illness present when a patient is admitted to the hospital. Please see page 2.

Risk-adjusted Length of Stay: reflects the average number of days hospitalized.

SOUTHWESTERN HOSPITALS

Vascular Operations EXCEPT HEART

Vascular Disorders EXCEPT HEART

Stroke

	CASES	Vascular Operations			Vascular Disorders			Stroke		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE	Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE	Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
Monsour Medical	8	○	10.9	\$23,839	19	○	6.9	\$7,496	25	○
Ohio Valley General	88	○	4.3	\$20,716	23	○	5.8	\$6,579	95	○
Saint Francis	119	○	6.9	\$22,742	67	○	6.1	\$9,977	211	○
Saint Francis Central	23	○	7.6	\$24,530	23	○	8.0	\$9,950	45	○
Sewickley Valley	83	○	4.4	\$20,483	58	○	5.5	\$7,615	175	○
St Clair Memorial	60	○	6.8	\$18,567	68	●	5.8	\$8,261	272	○
Suburban Gen - Pittsburgh	37	○	7.3	\$15,678	26	○	5.0	\$8,558	122	○
UPMC - Beaver Valley	9	○	5.1	\$12,985	24	○	7.5	\$6,646	89	○
UPMC - Braddock	33	○	4.9	\$10,105	48	○	5.5	\$5,553	125	○
UPMC - Passavant	82	○	7.4	\$24,774	81	○	5.5	\$7,489	240	○
UPMC - Presbyterian	239	○	6.0	\$32,007	211	○	4.9	\$11,029	466	○
UPMC - Shadyside	258	○	6.2	\$26,380	118	○	5.5	\$10,633	309	○
UPMC - South Side	41	○	7.9	\$19,610	57	○	6.7	\$7,744	114	○
UPMC - St Margaret	39	○	10.4	\$23,591	72	○	6.0	\$8,084	203	○
Uniontown	51	○	6.8	\$10,724	59	○	6.4	\$5,544	179	○
Washington	192	○	4.8	\$22,595	90	○	4.9	\$9,537	264	○
Western Pennsylvania	210	○	8.2	\$35,756	111	○	5.7	\$10,104	231	○
Westmoreland Regional	96	○	7.2	\$19,725	77	○	6.1	\$7,703	268	○
Southwestern Pennsylvania	3,015		6.6	\$22,876	2,481		5.8	\$8,420	7,036	
Statewide	11,503		6.8	\$26,069	9,413		5.8	\$9,412	29,903	

- Mortality significantly greater than Expected.
- Mortality not significantly different than Expected.
- Mortality significantly less than Expected.
- * Did not submit required data.
- ** Had fewer than five cases evaluated.

Risk-adjusted: The Mortality and Average Length of Stay figures adjust for the degree of illness present when a patient is admitted to the hospital. Please see page 2.

Risk-adjusted Length of Stay: reflects the average number of days hospitalized.

SOUTHWESTERN HOSPITALS

Adult Pneumonia

Adult Lung Infections

Lung Cancer

	CASES	Adult Pneumonia			CASES	Adult Lung Infections			CASES	Lung Cancer		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
AUMC - Allegheny Valley	235	⊙	6.7	\$11,346	87	⊙	9.4	\$14,290	55	⊙		
AUMC - Canonsburg	148	⊙	6.3	\$9,242	65	⊙	7.9	\$11,889	8	⊙		
Allegheny General	252	⊙	5.5	\$13,138	96	⊙	9.1	\$20,611	139	⊙		
Armstrong County Memorial	151	●	6.1	\$8,294	47	⊙	8.1	\$11,398	24	⊙		
Brownsville General	140	⊙	7.5	\$8,214	32	⊙	10.6	\$12,193	10	⊙		
Butler Memorial	291	⊙	6.1	\$8,437	62	⊙	8.6	\$11,324	38	⊙		
Children's - Pittsburgh	10	⊙	5.9	\$8,229	6	⊙	9.1	\$19,245	6	⊙		
Citizens General	146	⊙	6.4	\$11,014	79	○	9.8	\$16,718	54	⊙		
Forbes Regional	368	⊙	7.2	\$10,280	183	●	9.3	\$13,156	60	⊙		
Frick	154	⊙	7.0	\$7,856	75	⊙	10.3	\$13,495	20	⊙		
Greene County Memorial	150	⊙	3.5	\$5,654	43	⊙	4.6	\$7,099	3	**Not	Rated	
Highlands	97	⊙	6.5	\$8,541	11	⊙	10.0	\$11,794	11	⊙		
Jeannette District Memorial	120	⊙	5.9	\$6,725	49	⊙	8.2	\$9,418	31	⊙		
Jefferson	473	⊙	6.2	\$8,345	266	⊙	8.6	\$11,258	103	●		
Latrobe Area	285	⊙	5.7	\$9,368	186	⊙	8.6	\$13,694	70	⊙		
Magee-Womens	2	**Not	Rated		1	**Not	Rated		9	⊙		
McKeesport	154	⊙	6.7	\$8,689	79	⊙	10.5	\$13,332	58	⊙		
Medical Center - Beaver	313	⊙	6.9	\$8,922	118	⊙	9.3	\$11,916	114	⊙		
Mercy - Providence	75	⊙	7.6	\$10,790	17	⊙	9.8	\$12,988	9	⊙		
Monongahela Valley	220	⊙	6.8	\$9,918	133	⊙	10.0	\$15,846	69	⊙		

(Hospitals continued on next page.)

- Mortality significantly greater than Expected.
- ⊙ Mortality not significantly different than Expected.
- Mortality significantly less than Expected.
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- ** Had fewer than five cases evaluated.

Risk-adjusted: The Mortality and Average Length of Stay figures adjust for the degree of illness present when a patient is admitted to the hospital. Please see page 2.

Risk-adjusted Length of Stay: reflects the average number of days hospitalized.

SOUTHWESTERN HOSPITALS

Adult Pneumonia

Adult Lung Infections

Lung Cancer

	CASES	Adult Pneumonia			CASES	Adult Lung Infections			CASES	Lung Cancer		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
Monsour Medical	38	●	9.4	\$15,649	19	●	11.1	\$19,554	5	**Not Rated		
Ohio Valley General	123	●	5.9	\$7,976	47	●	6.4	\$7,675	22	●		
Saint Francis	245	●	7.2	\$11,542	105	●	11.3	\$17,224	61	●		
Saint Francis Central	60	●	6.6	\$11,820	17	●	8.7	\$16,960	14	*Non -Compliant		
Sewickley Valley	278	●	5.4	\$8,039	70	●	7.8	\$10,676	72	●		
St Clair Memorial	375	●	5.9	\$9,012	100	●	9.2	\$12,663	73	●		
Suburban Gen - Pittsburgh	138	●	7.6	\$10,408	42	●	9.1	\$13,522	15	●		
UPMC - Beaver Valley	90	●	6.6	\$8,158	48	●	8.6	\$10,681	8	●		
UPMC - Braddock	130	●	6.0	\$6,858	75	●	8.2	\$10,146	33	●		
UPMC - Passavant	279	●	6.7	\$11,238	88	●	8.8	\$14,825	50	●		
UPMC - Presbyterian	296	●	5.6	\$13,248	211	●	8.2	\$19,742	142	○		
UPMC - Shadyside	345	●	6.0	\$12,435	233	○	7.7	\$17,652	71	●		
UPMC - South Side	187	●	7.4	\$9,784	52	●	9.4	\$13,225	17	●		
UPMC - St Margaret	203	●	6.6	\$10,447	122	●	9.0	\$14,993	71	●		
Uniontown	183	●	7.0	\$7,604	137	●	9.9	\$11,204	47	●		
Washington	443	●	5.5	\$9,119	190	●	7.1	\$12,287	85	●		
Western Pennsylvania	197	●	5.6	\$12,295	217	●	7.7	\$18,839	85	●		
Westmoreland Regional	302	●	6.6	\$10,413	181	●	9.0	\$14,268	65	●		
Southwestern Pennsylvania	7,938		6.3	\$9,833	3,776		8.8	\$14,311	1,892			
Statewide	33,728		6.1	\$10,685	13,574		8.5	\$16,697	7,057			

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- ** Had fewer than five cases evaluated.

Risk-adjusted: The Mortality and Average Length of Stay figures adjust for the degree of illness present when a patient is admitted to the hospital. Please see page 2.

Risk-adjusted Length of Stay: reflects the average number of days hospitalized.

SOUTHWESTERN HOSPITALS

Adult Diabetes

Kidney Failure

Adult Septicemia

	CASES	Adult Diabetes			CASES	Kidney Failure			CASES	Adult Septicemia		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
AUMC - Allegheny Valley	67	●	4.7	\$6,928	40	●	10.3	\$17,590	230	●		
AUMC - Canonsburg	26	●	4.1	\$6,113	19	●	6.3	\$10,276	60	●		
Allegheny General	90	●	4.6	\$9,515	116	○	5.9	\$14,164	140	●		
Armstrong County Memorial	35	●	4.5	\$4,936	42	●	7.4	\$10,176	110	●		
Brownsville General	29	●	5.6	\$5,970	28	●	8.4	\$10,017	93	●		
Butler Memorial	34	●	5.2	\$6,858	23	●	7.2	\$12,578	92	●		
Children's - Pittsburgh	0				11	●	11.8	\$15,752	2	**Not	Rated	
Citizens General	24	●	3.1	\$4,947	47	●	6.5	\$11,289	96	●		
Forbes Regional	100	●	4.4	\$6,036	86	●	7.3	\$11,121	188	●		
Frick	37	●	4.7	\$4,711	32	●	8.6	\$9,469	108	●		
Greene County Memorial	22	●	2.8	\$4,010	15	●	3.9	\$6,428	25	●		
Highlands	27	●	4.3	\$5,326	14	●	4.0	\$5,972	17	●		
Jeannette District Memorial	27	●	3.8	\$5,367	33	●	7.7	\$9,204	126	●		
Jefferson	91	●	4.1	\$5,096	57	●	5.8	\$8,446	281	●		
Latrobe Area	61	●	3.3	\$5,702	45	●	6.1	\$9,388	175	●		
Magee-Womens	0				1	**Not	Rated		5	●		
McKeesport	69	●	4.9	\$6,256	54	●	7.4	\$14,055	194	●		
Medical Center - Beaver	100	●	4.0	\$5,587	96	●	7.6	\$12,250	171	●		
Mercy - Providence	21	●	5.0	\$6,920	37	●	8.2	\$11,140	40	●		
Monongahela Valley	105	●	5.6	\$7,424	41	●	9.6	\$15,393	130	●		

(Hospitals continued on next page.)

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Risk-adjusted Length of Stay: reflects the average number of days hospitalized.

- Mortality significantly greater than Expected.
- Mortality not significantly different than Expected.
- Mortality significantly less than Expected.
- * Did not submit required data.
- ** Had fewer than five cases evaluated.

SOUTHWESTERN HOSPITALS

Adult Diabetes

Kidney Failure

Adult Septicemia

	CASES	Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE	CASES	Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE	CASES	Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
Monsour Medical	21	●	6.5	\$7,643	5	●	12.1	\$19,720	18	●		
Ohio Valley General	36	●	4.2	\$6,619	22	●	9.7	\$17,265	60	**	*Non -Compliant	
Saint Francis	55	●	5.0	\$8,902	80	●	8.4	\$15,564	107	●		
Saint Francis Central	36	●	4.7	\$8,165	13	**	*Non -Compliant		28	●		
Sewickley Valley	69	●	4.3	\$5,970	48	●	7.0	\$10,504	103	●		
St Clair Memorial	49	●	4.0	\$5,368	47	●	6.5	\$11,361	141	●		
Suburban Gen - Pittsburgh	21	●	5.5	\$7,202	10	●	10.4	\$14,278	48	●		
UPMC - Beaver Valley	44	●	5.4	\$6,248	22	●	6.3	\$8,430	32	●		
UPMC - Braddock	57	●	4.7	\$4,522	34	●	6.4	\$8,996	124	●		
UPMC - Passavant	62	●	4.2	\$6,669	40	●	7.2	\$12,646	123	●		
UPMC - Presbyterian	95	●	3.9	\$9,016	163	●	5.3	\$16,350	293	●		
UPMC - Shadyside	127	●	4.6	\$8,054	61	●	6.0	\$15,905	191	●		
UPMC - South Side	47	●	5.6	\$7,792	28	●	8.3	\$13,940	57	●		
UPMC - St Margaret	38	●	4.6	\$6,733	39	●	8.8	\$16,096	108	●		
Uniontown	48	●	4.9	\$4,285	45	●	7.5	\$8,672	126	●		
Washington	53	●	3.7	\$6,306	72	●	5.9	\$12,836	250	●		
Western Pennsylvania	125	●	4.7	\$8,349	106	●	6.2	\$14,733	218	●		
Westmoreland Regional	60	●	4.1	\$6,526	41	●	7.9	\$16,655	168	●		
Southwestern Pennsylvania	2,080		4.5	\$6,757	1,766		7.0	\$12,906	4,608			
Statewide	8,970		4.4	\$7,703	7,345		6.7	\$13,671	18,199			

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Risk-adjusted Length of Stay: reflects the average number of days hospitalized.

SOUTHWESTERN HOSPITALS

Gastrointestinal Bleeding

Major Intestinal Procedures

Hip Operations EXCEPT REPLACEMENTS

	CASES	Gastrointestinal Bleeding			CASES	Major Intestinal Procedures			CASES	Hip Operations EXCEPT REPLACEMENTS		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
AUMC - Allegheny Valley	130	●	5.3	\$10,599	83	●	12.7	\$34,906	76	●		
AUMC - Canonsburg	60	●	4.9	\$7,769	33	●	9.6	\$22,960	29	●		
Allegheny General	187	●	4.8	\$11,817	291	●	10.5	\$30,061	98	●		
Armstrong County Memorial	116	●	5.1	\$7,882	42	●	9.0	\$25,550	30	●		
Brownsville General	45	●	5.2	\$8,375	25	●	13.6	\$26,187	30	●		
Butler Memorial	124	●	4.5	\$7,333	68	●	9.1	\$21,248	53	●		
Children's - Pittsburgh	13	●	5.7	\$13,649	53	●	11.7	\$30,336	5	●		
Citizens General	74	●	4.7	\$8,851	50	●	9.9	\$28,247	34	●		
Forbes Regional	200	●	5.1	\$8,537	139	●	11.0	\$21,075	96	●		
Frick	81	●	5.6	\$7,181	51	●	12.2	\$21,281	37	●		
Greene County Memorial	44	●	3.4	\$6,819	25	●	5.3	\$12,668	19	●		
Highlands	26	●	4.6	\$7,107	28	●	10.5	\$17,036	17	●		
Jeannette District Memorial	86	●	4.8	\$6,302	54	●	10.2	\$23,274	41	●		
Jefferson	225	●	4.6	\$7,368	178	●	11.0	\$21,988	104	●		
Latrobe Area	150	●	4.3	\$7,347	102	●	10.6	\$23,219	85	●		
Magee-Womens	0				50	●	11.1	\$31,677	0			
McKeesport	152	●	5.1	\$8,106	62	●	10.3	\$22,356	56	●		
Medical Center - Beaver	178	●	5.0	\$7,962	180	●	10.5	\$22,762	84	●		
Mercy - Providence	41	●	5.3	\$7,360	21	●	10.6	\$27,869	29	●		
Monongahela Valley	129	●	5.7	\$9,199	111	●	13.1	\$29,756	67	●		

(Hospitals continued on next page.)

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SOUTHWESTERN HOSPITALS

Gastrointestinal Bleeding

Major Intestinal Procedures

Hip Operations EXCEPT REPLACEMENTS

	CASES	Gastrointestinal Bleeding			CASES	Major Intestinal Procedures			CASES	Hip Operations EXCEPT REPLACEMENTS		
		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE		Risk-adjusted MORTALITY	Risk-adjusted LENGTH OF STAY	Average CHARGE
Monsour Medical	21	●	6.2	\$12,134	20	●	12.7	\$42,617	4	**Not Rated		
Ohio Valley General	76	●	4.5	\$8,296	60	●	10.0	\$31,488	39	●		
Saint Francis	106	●	5.7	\$10,371	84	●	12.2	\$29,237	55	●		
Saint Francis Central	36	●	5.1	\$9,834	20	●	11.6	\$36,591	7	●		
Sewickley Valley	159	●	3.7	\$6,980	109	●	9.5	\$22,828	65	●		
St Clair Memorial	182	●	4.3	\$7,862	156	●	10.1	\$26,414	115	●		
Suburban Gen - Pittsburgh	72	●	5.4	\$7,445	55	●	11.1	\$20,621	32	●		
UPMC - Beaver Valley	48	●	6.1	\$8,618	37	●	11.7	\$24,351	18	●		
UPMC - Braddock	104	●	4.3	\$6,141	47	●	9.6	\$19,110	48	●		
UPMC - Passavant	158	●	4.8	\$9,792	113	●	10.2	\$27,849	77	●		
UPMC - Presbyterian	250	○	4.1	\$13,808	327	●	9.4	\$38,221	175	●		
UPMC - Shadyside	261	●	4.6	\$10,977	158	●	10.8	\$35,925	97	●		
UPMC - South Side	102	●	6.0	\$9,440	69	●	10.6	\$21,658	48	●		
UPMC - St Margaret	181	●	4.6	\$8,133	101	●	10.2	\$24,335	90	●		
Uniontown	160	●	5.3	\$6,424	84	●	10.4	\$14,727	105	●		
Washington	216	●	4.3	\$8,302	117	●	10.8	\$30,601	75	●		
Western Pennsylvania	199	●	4.7	\$11,059	137	●	11.3	\$38,868	64	●		
Westmoreland Regional	176	●	4.7	\$7,926	154	●	11.3	\$26,146	76	●		
Southwestern Pennsylvania	4,807		4.8	\$8,886	3,664		10.6	\$27,526	2,256			
Statewide	19,579		4.7	\$9,714	15,619		10.7	\$31,416	10,080			

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NOTES

NOTES

Hospitals Excluded from the Report Due to Non-Compliance (See page 4 for more details.)

Mercy Hospital of Pittsburgh

Hospital Name Changes and/or Mergers

Forbes Regional Hospital's name changed to Allegheny University Hospitals, Forbes Regional in 1998.

McKeesport Hospital's name changed to UPMC, McKeesport in 1998.

PHC4 wishes to acknowledge the hard work performed by the overwhelming majority of Pennsylvania hospitals in meeting the requirements of Act 89.

FOR MORE INFORMATION...

Please contact the Pennsylvania Health Care Cost Containment Council at:

225 Market Street, Suite 400

Harrisburg, PA 17101

Phone 717-232-6787

Fax 717-232-3821

www.phc4.org

The following additional information can be found on our web site -- www.phc4.org.

- ◆ Total Cases
- ◆ Actual Mortality
- ◆ Expected Mortality
- ◆ p-Value
- ◆ Average ASG (Admission Severity Group)
- ◆ Percent Age 65 and Over

Hospitals may have commented on this report. Copies of their comments are available by request.

Report Number: 99-07/04-11/1