

A HOSPITAL PERFORMANCE REPORT

15 COMMON MEDICAL PROCEDURES AND TREATMENTS

SOUTHEASTERN PENNSYLVANIA - REGION 8

Pennsylvania Health Care
Cost Containment Council
1999

A Pennsylvania Hospital Performance Report

15 Common Medical Procedures and Treatments

TABLE OF CONTENTS

Foreword.....	1
What is the purpose of this report?.....	1
What is included in the report?.....	1
What is a DRG?.....	2
Where does the data come from?.....	2
What is meant by risk-adjusted?.....	2
What is measured in the report and why is it important?.....	2
Hospital charges.....	3
Understanding the tables.....	3
What is meant by non-compliance?.....	4
Final Words - How to use the report.....	4
Diagnosis Related Group (DRG) Tables.....	5-9
Heart Attack (DRGs 121,122,123).....	5
Heart Failure and Shock (DRG 127).....	5
Major Vessel Operations except Heart (DRG 110).....	5
Vascular Operations except Heart (DRG 478).....	6
Vascular Disorders except Heart (DRG 130).....	6
Stroke (DRG 14).....	6
Adult Pneumonia (DRG 89).....	7
Adult Lung Infections (DRG 79).....	7
Lung Cancer (DRG 82).....	7
Adult Diabetes (DRG 294).....	8
Kidney Failure (DRG 316).....	8
Adult Septicemia (DRG 416).....	8
Gastrointestinal Bleeding (DRG 174).....	9
Major Intestinal Procedures (DRG 148).....	9
Hip Operations except Replacement (DRG 210).....	9
Diagnosis Related Group (DRG) Descriptions.....	10

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. Unfortunately, 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 following counties are included in this report:

Bucks
Delaware
Chester
Montgomery

- ◆ 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 10.
- ◆ 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.

SOUTHEASTERN 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
AUH - Bucks County	124	●	7.7	\$26,702	238	●	5.9	\$18,146	1	**Not Rated		
Abington Memorial	349	●	5.8	\$29,047	639	●	5.1	\$19,751	66	*Non-Compliant		
Chester County	138	●	6.3	\$18,927	380	○	5.1	\$11,967	20	●		
Crozer-Chester	321	●	6.1	\$32,726	841	●	4.6	\$20,889	77	●		
Delaware County Memorial	215	●	6.6	\$29,128	457	●	5.0	\$20,473	38	○		
Delaware Valley	127	●	7.2	\$22,974	299	●	5.9	\$15,745	12	●		
Doylestown	194	●	5.6	\$10,856	276	●	4.2	\$6,949	40	●		
Grand View	210	○	5.5	\$18,230	276	●	4.8	\$13,499	8	●		
Holy Redeemer	217	●	6.8	\$36,376	468	●	5.9	\$22,575	46	●		
Main Line - Bryn Mawr	149	●	5.8	\$23,068	341	●	5.1	\$15,406	42	●		
Main Line - Lankenau	269	●	5.2	\$17,319	585	○	5.0	\$13,795	131	●		
Main Line - Paoli	136	●	5.8	\$18,232	234	●	4.1	\$10,825	17	●		
Mercy - Community	81	●	6.2	\$22,905	250	●	4.9	\$14,358	6	●		
Mercy - Fitzgerald	194	●	5.9	\$23,111	513	○	4.5	\$15,468	19	●		
North Penn	167	●	5.2	\$14,080	217	●	5.2	\$11,234	7	●		
Phoenixville - Univ of PA	162	●	5.0	\$13,718	259	●	4.1	\$8,663	25	●		
Pottstown Memorial	195	●	5.7	\$14,494	327	●	4.3	\$11,452	31	●		
Riddle Memorial	174	●	5.5	\$21,035	279	●	4.6	\$12,724	13	*Non-Compliant		
Saint Mary	151	●	6.5	\$18,852	410	●	5.1	\$12,472	47	●		
Southern Chester County	56	●	6.2	\$13,428	248	●	5.2	\$11,123	4	**Not Rated		
St Luke's - Quakertown	62	●	6.0	\$13,577	85	●	5.6	\$12,088	0			
Temple Lower Bucks	137	●	7.3	\$20,965	376	●	4.8	\$12,813	15	●		
Southeastern Pennsylvania	4,412		5.9	\$22,216	9,153		5.0	\$14,961	738			
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.

SOUTHEASTERN HOSPITALS

Vascular Operations EXCEPT HEART

Vascular Disorders EXCEPT HEART

Stroke

	Vascular Operations EXCEPT HEART				Vascular Disorders EXCEPT HEART				Stroke			
	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
AUH - Bucks County	26	●	4.8	\$29,117	29	●	5.5	\$13,600	69	●		
Abington Memorial	149	●	6.0	\$36,325	41	●	6.7	\$17,217	413	●		
Chester County	65	●	6.7	\$24,738	65	●	5.2	\$9,607	174	●		
Crozer-Chester	138	●	7.0	\$45,112	97	●	5.2	\$19,234	420	●		
Delaware County Memorial	48	●	6.2	\$35,164	67	●	5.5	\$18,073	252	●		
Delaware Valley	38	●	6.6	\$25,736	35	●	4.8	\$10,359	101	●		
Doylestown	85	●	4.4	\$17,278	41	●	5.6	\$10,487	184	●		
Grand View	61	●	8.3	\$29,247	69	●	5.8	\$12,400	159	●		
Holy Redeemer	97	●	6.2	\$30,217	60	●	5.4	\$16,986	229	●		
Main Line - Bryn Mawr	65	●	6.2	\$29,344	60	●	6.2	\$14,572	232	●		
Main Line - Lankenau	85	●	6.6	\$28,530	74	●	5.3	\$12,487	324	●		
Main Line - Paoli	20	●	4.7	\$17,415	28	●	3.8	\$9,840	112	●		
Mercy - Community	6	●	7.7	\$27,828	10	●	3.6	\$8,087	102	●		
Mercy - Fitzgerald	129	●	5.4	\$29,101	66	●	5.3	\$14,606	221	●		
North Penn	11	●	7.0	\$23,546	18	●	6.0	\$9,636	120	●		
Phoenixville - Univ of PA	57	●	5.9	\$21,327	39	●	3.8	\$6,119	121	●		
Pottstown Memorial	56	●	6.5	\$28,969	57	●	5.2	\$8,943	175	●		
Riddle Memorial	21	●	7.3	\$26,889	20	*Non-Compliant			215	●		
Saint Mary	84	●	6.2	\$31,178	61	●	5.9	\$12,795	226	●		
Southern Chester County	5	●	6.4	\$19,015	12	●	8.9	\$14,124	71	●		
St Luke's - Quakertown	1	**Not Rated			23	●	5.2	\$10,315	49	●		
Temple Lower Bucks	39	●	7.6	\$27,070	56	●	5.2	\$12,783	169	●		
TOTAL: Southeastern Pennsylvania	1,501		6.2	\$29,634	1,206		5.4	\$12,894	4,679			
TOTAL: 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.

SOUTHEASTERN HOSPITALS

Adult Pneumonia

Adult Lung Infections

Lung Cancer

	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
AUH - Bucks County	123	●	6.4	\$18,420	58	●	9.3	\$27,416	18	●		
Abington Memorial	465	●	5.4	\$20,390	182	○	8.5	\$30,639	113	●		
Chester County	290	●	6.0	\$12,754	200	●	8.0	\$18,342	43	●		
Crozer-Chester	354	●	5.5	\$22,654	216	●	9.0	\$33,744	76	●		
Delaware County Memorial	189	●	6.4	\$23,362	137	●	9.7	\$34,539	41	●		
Delaware Valley	112	●	6.2	\$14,864	38	●	9.2	\$25,040	14	●		
Doylestown	220	●	6.2	\$13,100	80	●	8.9	\$16,799	61	●		
Grand View	210	●	6.2	\$16,112	40	●	8.5	\$24,031	29	●		
Holy Redeemer	265	●	6.4	\$22,401	133	●	8.8	\$29,864	59	●		
Main Line - Bryn Mawr	226	●	6.0	\$18,128	74	●	8.4	\$27,954	35	●		
Main Line - Lankenau	245	○	6.5	\$15,670	166	●	7.3	\$17,408	73	●		
Main Line - Paoli	135	●	4.7	\$11,553	43	●	7.4	\$18,471	40	●		
Mercy - Community	119	●	6.0	\$16,851	134	●	8.4	\$21,738	27	●		
Mercy - Fitzgerald	305	●	5.3	\$16,524	175	●	7.1	\$24,657	60	●		
North Penn	131	●	6.4	\$12,937	29	●	8.6	\$15,473	19	●		
Phoenixville - Univ of PA	169	●	4.8	\$9,232	51	●	5.6	\$10,547	27	●		
Pottstown Memorial	327	●	5.1	\$13,939	141	●	7.2	\$20,352	27	●		
Riddle Memorial	228	●	5.4	\$12,716	156	●	9.2	\$20,025	25	●		
Saint Mary	267	●	5.5	\$12,330	99	●	8.0	\$17,564	47	●		
Southern Chester County	179	●	5.4	\$11,582	71	●	7.3	\$14,877	8	●		
St Luke's - Quakertown	73	●	6.2	\$12,257	17	●	9.4	\$16,737	5	●		
Temple Lower Bucks	133	●	5.6	\$12,949	42	*Non-Compliant			28	●		
Southeastern Pennsylvania	5,372		5.7	\$15,806	2,552		8.2	\$22,899	1,004			
Statewide	33,728		6.1	\$10,685	13,574		8.5	\$16,697	7,057			

*Non-Compliant

- 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.

SOUTHEASTERN 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
AUH - Bucks County	49	●	4.3	\$10,950	15	●	6.0	\$22,930	50	●		
Abington Memorial	103	●	4.4	\$14,619	96	●	6.1	\$25,413	198	●		
Chester County	34	●	4.3	\$7,345	27	●	6.3	\$17,051	140	○		
Crozer-Chester	136	●	3.8	\$15,859	54	●	7.1	\$31,582	247	●		
Delaware County Memorial	49	●	4.3	\$15,978	22	●	10.4	\$33,532	139	●		
Delaware Valley	72	●	4.0	\$10,931	20	●	7.7	\$22,735	48	●		
Doylestown	23	●	4.7	\$9,152	34	●	5.7	\$13,055	203	●		
Grand View	30	●	4.5	\$9,633	12	●	5.3	\$11,917	97	●		
Holy Redeemer	47	●	3.3	\$14,069	41	●	6.5	\$27,640	143	●		
Main Line - Bryn Mawr	42	●	4.1	\$9,680	32	●	7.2	\$22,900	129	●		
Main Line - Lankenau	57	●	3.7	\$10,182	75	●	6.5	\$16,284	293	○		
Main Line - Paoli	32	●	4.4	\$10,712	16	●	5.6	\$15,731	98	●		
Mercy - Community	28	●	4.2	\$9,659	35	●	7.0	\$19,829	100	●		
Mercy - Fitzgerald	76	●	3.8	\$11,530	48	●	6.2	\$20,376	167	●		
North Penn	25	●	5.0	\$7,984	10	●	4.1	\$11,183	51	●		
Phoenixville - Univ of PA	32	●	3.9	\$7,721	20	●	6.0	\$10,828	83	●		
Pottstown Memorial	45	●	3.9	\$9,014	71	●	7.1	\$16,983	117	●		
Riddle Memorial	40	●	4.4	\$9,599	26	●	6.1	\$13,798	211	●		
Saint Mary	53	●	3.8	\$10,024	30	●	6.2	\$13,725	177	●		
Southern Chester County	16	●	4.9	\$7,175	15	●	7.3	\$21,328	20	●		
St Luke's - Quakertown	24	●	4.7	\$9,250	7	●	3.3	\$5,867	36	●		
Temple Lower Bucks	48	●	3.1	\$8,678	34	●	5.9	\$16,706	149	●		
Southeastern Pennsylvania	1,234		4.1	\$11,119	876		6.5	\$19,641	3,166			
Statewide	8,970		4.4	\$7,703	7,345		6.7	\$13,671	18,199			

- 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.

SOUTHEASTERN 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
AUH - Bucks County	56	●	4.5	\$15,723	37	●	10.7	\$41,797	28	●		
Abington Memorial	207	●	4.2	\$18,642	230	●	9.9	\$49,364	188	●		
Chester County	126	●	4.2	\$11,421	121	●	10.4	\$34,393	92	●		
Crozer-Chester	256	●	4.9	\$23,134	190	●	10.9	\$56,932	95	●		
Delaware County Memorial	135	●	4.7	\$17,623	150	●	11.8	\$53,444	61	●		
Delaware Valley	71	●	4.4	\$13,409	54	●	10.5	\$36,860	32	●		
Doylestown	118	●	4.8	\$9,433	122	●	10.7	\$29,592	72	●		
Grand View	76	●	4.8	\$12,407	100	●	10.3	\$37,732	50	●		
Holy Redeemer	141	●	4.4	\$17,224	125	●	10.7	\$51,552	70	●		
Main Line - Bryn Mawr	150	●	4.3	\$12,689	115	●	10.5	\$36,625	104	●		
Main Line - Lankenau	163	●	3.9	\$10,379	142	●	10.1	\$40,701	78	●		
Main Line - Paoli	74	●	3.7	\$10,121	56	●	8.9	\$27,510	42	●		
Mercy - Community	82	●	4.3	\$12,742	33	●	11.4	\$37,203	38	●		
Mercy - Fitzgerald	181	●	4.2	\$14,738	102	●	12.2	\$52,252	61	●		
North Penn	61	●	4.1	\$10,742	35	●	9.1	\$28,822	37	●		
Phoenixville - Univ of PA	81	●	4.5	\$11,812	69	●	9.4	\$28,266	47	●		
Pottstown Memorial	121	●	4.1	\$10,711	94	●	10.5	\$37,666	72	●		
Riddle Memorial	155	●	4.7	\$11,783	85	○	9.8	\$35,949	113	●		
Saint Mary	117	●	4.5	\$11,600	95	●	10.1	\$38,246	113	●		
Southern Chester County	54	●	4.2	\$13,626	37	●	10.5	\$43,548	31	●		
St Luke's - Quakertown	28	●	4.3	\$9,031	30	●	10.0	\$32,158	29	●		
Temple Lower Bucks	83	●	5.1	\$15,015	82	●	10.9	\$34,688	70	●		
Southeastern Pennsylvania	2,882		4.4	\$13,936	2,396		10.5	\$42,096	1,696			
Statewide	19,579		4.7	\$9,714	15,619		10.7	\$31,416	10,080			

- 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.

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 hospital-

ized 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.

Hospitals Excluded from the Report Due to Non-Compliance

(See page 4 for more details.)

Allegheny University Hospitals, Elkins Park Division

Brandywine Hospital

*Montgomery Hospital

Suburban General Hospital/Norristown

* Now compliant effective 3rd Quarter 1998 data reporting period. PHC4 wishes to acknowledge the hard work performed by the overwhelming majority of Pennsylvania hospitals in meeting the requirements of Act 89.

Hospital Name Changes and/or Mergers

Allegheny University Hospitals, Bucks County Division name changed to Warminster Hospital in 1998.

Allegheny University Hospitals, Elkins Park Division name changed to Elkins Park Hospital in 1998.

Taylor Hospital merged into Crozer-Chester Medical Center in 1997.

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: 99-07/15-11/8