# DELAWARE HOSPITAL DISCHARGE SUMMARY REPORT • 2011

Issued June 2017



# **Acknowledgments**

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#### **EXECUTIVE SUMMARY**

#### This report describes:

Patient Characteristics

- Most Frequent Reason for Hospitalizations
- Patient Admission Source

Hospital Charges and Billing Patterns
Patient Discharge Status
Patient Distribution

Data in this report will present 2011 Delaware hospital discharge data, as well as trend data for selected characteristics. Hospitalization or hospital discharge refers to any discharge from a non-federal, short-stay, acute-care hospital in Delaware. Hospitalizations are expressed as numbers of discharges, not as unduplicated patients; as a result, a single patient with multiple hospitalizations can be counted more than once. Delaware hospital discharge data are based on inpatient hospitalizations and do not include outpatient, clinic, or emergency room data. Unless otherwise specified, the data presented represent discharges from the following hospitals and systems: Alfred I. duPont Hospital for Children, St. Francis Hospital, Select Specialty Hospital - Wilmington (also referred to as Select Medical Wilmington in some graphs), Christiana Care Health System (which consists of Wilmington Hospital and Christiana Hospital Newark), Bayhealth Medical Center (which consists of Kent General Hospital and Milford Memorial Hospital), Beebe Medical Center, and Nanticoke Memorial Hospital.

More information about the creation of annual files, as well as definitions of terms used in this report, can be found in the Technical Notes.

#### **Key findings:**

- The number of hospital discharges decreased slightly from 2010 to 2011. Despite the drop in discharges, aggregate hospital charges continued their steady increase (see page 20).
- Women accounted for 57.8 percent of hospital discharges compared to 42.2 percent for men.
   In the 25 to 34 year age group, four out of every five discharges were women.
- Inpatient hospitalizations in 2011 generated total charges of \$2.79 billion; 47 percent of that total (\$1.31 billion) was billed to Medicare.
- In 2011, the average length of stay (ALOS) was 4.8 days and the mean charge for a hospitalization was \$25,359.
- The most frequent reasons for hospitalization fell under the category of diseases of the circulatory system, and included congestive heart failure, coronary artery disease, and cardiac dysrhythmias (irregular heartbeat).
- The point of origin for 22.5 percent of hospitalizations was a clinic or physician's office.
- Non-residents accounted for 12.8 percent of all discharges from Delaware hospitals, most of whom came from Pennsylvania, Maryland, and New Jersey.

June 2011

<sup>&</sup>lt;sup>1</sup>See the Hospital Profiles at the end of this report for details about each of Delaware's acute care hospitals.

### **EXECUTIVE SUMMARY**

- Hospital stays for previous C-sections represented 12.8 percent of pregnancy related discharges compared to 5.1 percent for normal deliveries.
- The average length of stay for premature and low birth weight babies was 25.6 days compared to 3.5 days for all deliveries.
- Over two-thirds of patients underwent a procedure while hospitalized; 24.7 percent had only one procedure, 17.9 had two procedures, and 26.9 had three or more during their stay.
- Patients who were uninsured and those covered by Medicare were more frequently admitted through the
  emergency department (ED) than any other route; 65.5 percent of uninsured patients and 75.6 percent of
  Medicare patients were admitted through the ED in 2011.
- Medicare and private insurers were the primary payers in 39.8 and 29.3 percent, respectively, of all hospital
  discharges in 2011. Medicaid was the primary payer in 23.4 percent of all hospital stays, and uninsured
  hospitalizations accounted for 5.0 percent of the total stays. The remaining 2.4 percent of hospitalizations were
  covered by other specified or unknown programs.

Patients under one year old accounted for 12.8 percent of all discharges in 2011; the majority of these discharges were infants hospitalized by virtue of being born in the hospital. Patients 65 and older were responsible for 33.7 percent of all discharges in 2011.

25,000 20,000 Number of Discharges 15,000 10,000 5,000 0 1-4 5-9 10-14 15-19 20-24 25-34 35-44 <1 45-54 55-64 65-74 75+ Age Group

Figure 1. Hospital Discharges by Age Group, Delaware Hospitals, 2011.

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Males made up the majority of discharges in the age groups under 15. For nearly all age groups age15 and higher, females made up the majority of discharges, and in the 20 to 34 year age range, four out of every five discharges were women. In 2011, 57.8 percent of total discharges were women.

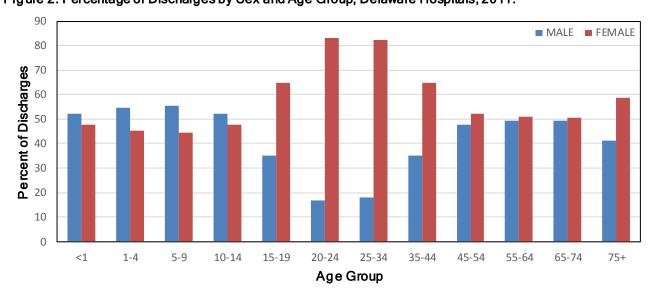


Figure 2. Percentage of Discharges by Sex and Age Group, Delaware Hospitals, 2011.

Non-residents accounted for 12.8 percent of all discharges from Delaware hospitals, most of whom came from Pennsylvania, Maryland, and New Jersey. Nearly half of the patients at A.I. duPont Hospital for Children were non-residents (49.7 percent).

25 Percent of Total Discharges to Non-residents ■ MD ■ NJ ■ PA ■ Other 20 15 10 5 0 A I DUPONT **BAYHEALTH BEEBE CHRISTIANA** NANTICOKE SAINT **SELECT MEDICAL** CARE HOSPITAL **MEDICAL MEMORIAL FRANCIS MEDICAL** WILMINGTON **CENTER CENTER HEALTH** HOSPITAL HOSPITAL SYSTEM

Figure 3. Percentage of Non-Resident Discharges by State, Delaware Hospitals, 2011

Hospital System

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Hospital admissions declined slightly between 2009 and 2011. Total admissions fell 2.8 percent moving from 113,101 in 2009 to 109,965 in 2011. The two hospitals with the greatest percent change were A.I. duPont, which decreased 17.5 percent; and Select Medical, which increased 21.1 percent.

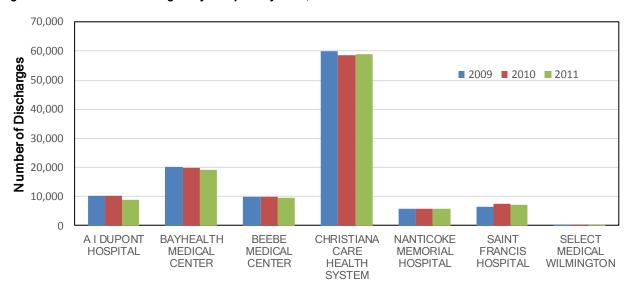


Figure 4. Number of Discharges by Hospital System, 2009-2011

**Hospital System** 

Average length of stay (ALOS) dropped from 5.1 days in 1997 to 4.8 days in 2011. This decline was primarily due to an increase in the percentage of patients staying less than three days. In 2011 61.4 percent of patients stayed three or fewer days in the hospital. The largest percentage decline in length of stay occurred for patients admitted for 15 or more days (17.9 percent).

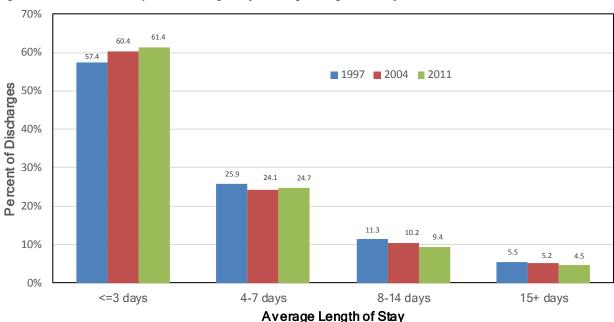


Figure 5. Percent of Hospital Discharges by Average Length of Stay Delaware, Selected Years 1997-2011

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Length of stay varies with age of patient. Patients under the age of 18 have the shortest lengths of stay. In 2011, 79.3 percent of patients under 18 had hospital stays of three days or less, compared to 45.4 percent for patients 65 and over. Patients age 65 and over were more than three times as likely to have stays of 8 to 14 days when compared to patients under the age of 18.

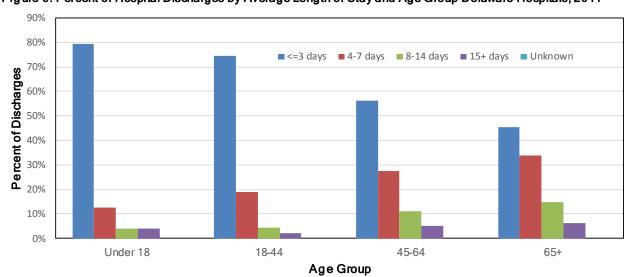


Figure 6. Percent of Hospital Discharges by Average Length of Stay and Age Group Delaware Hospitals, 2011

#### Gender

Between 1997 and 2011, the average length of stay (ALOS) for male and female patients declined 3.9 and 7.4 percent respectively. When female obstetrical patients were excluded from the calculation of average length of stay, male and female patients had similar ALOS figures in all time periods. The only increase in average length of stay from 1997 to 2011 was seen in female obstetrical patients, whose length of stay increased 13.8 percent.

Figure 7. Mean Length of Stay by Patient Type, Delaware Hospitals Selected Years, 1997, 2004, 2011.

# WHY PATIENTS WERE HOSPITALIZED

# Most frequent reasons for hospitalization by primary diagnosis and body system<sup>2</sup>:

Diseases of the circulatory system accounted for 14.9 percent of the total discharges in 2011 and represented the most common reasons for hospitalization. Some of the most common diagnoses in that category were congestive heart failure, coronary artery disease, irregular heartbeat, heart attack, and stroke. Pregnancy and childbirth comprised 11.2 percent of the total discharges, and 10.2 percent of all discharges were related to diseases of the respiratory system, which included pneumonia, chronic obstructive pulmonary disease, asthma, and respiratory failure. Together, these three categories accounted for 36.4 percent of all hospitalizations.

Unknown Certain conditions originating in the perinatal period Congenital anomalies ■ 2011 ■ 2007 ■ 2003 Disease of the blood and blood forming organs Diseases of the skin and subcutaneous tissue Mental disorders Diseases of the nervous system and sense organs Infections and parasitic diseases Other conditions Neoplasms Endocrine, nutritional & metabolic diseases, & immunity disorders Diseases of the genitourinary system Diseases of the musculoskeletal system and connective tissue Injury and poisoning Diseases of the digestive system Diseases of the respiratory system Liveborn Complications of pregnancy, child birth, & the puerperium Diseases of the circulatory system 20.000 2.000 4.000 6.000 8.000 10.000 12.000 14.000 16.000 18.000 Number of Discharges

Figure 8. Number of Discharges by Body System, Delaware Hospitals, Selected Years, 2003-2011

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

The largest percent increase (90.2 percent) in hospitalizations from 2003 to 2011 occurred in infections and parasitic diseases. Diseases of the skin and subcutaneous tissue also demonstrated a large percentage increase (33.7 percent) from 2003 to 2011. At 25.5 percent, the third largest increase in hospitalizations was due to diseases of the musculoskeletal system and connective tissue. Other conditions accounted for the largest decrease in hospitalizations (25.7 percent).

See Appendix A for details about the primary diagnoses and body system classifications.

#### WHY PATIENTS WERE HOSPITALIZED

#### Most frequent reasons for hospitalization by gender (excluding liveborn infants):

Specific diagnoses varied by gender. Much of the variation was a result of the large number of women hospitalized due to pregnancy and delivery related conditions; four out of the top 10 diagnoses for women were related to pregnancy and childbirth. In Table1, all of these diagnoses were rolled into the primary diagnosis of "Pregnancy & childbirth". Both men and women experienced high numbers of discharges due to pneumonia, osteoarthritis, and congestive heart failure. Table 1 shows the most frequent diagnoses for both men and women, by number, percent, and rank of discharges by gender.

Table 1. Most Frequent Diagnoses (CCS Defined) by Gender, Delaware Hospitals 2011

CCC Dringinal Diagnosis	MALE			FEMALE		
CCS Principal Diagnosis	#	%	Rank	#	%	Rank
All diagnoses	46,388	100		63,577	100	
Pregnancy & childbirth				12,305	19.4	1
Liveborn Infant	5,791	12.5	1	5,597	8.8	2
Pneumonia (except that caused by tuberculosis or STD)	1,663	3.6	2	1,812	2.9	4
Osteoarthritis	1,218	2.6	5	1,923	3.0	3
Congestive heart failure; nonhypertensive	1,416	3.1	3	1,382	2.2	6
Septicemia (except in labor)	1,294	2.8	4	1,422	2.2	5
Chronic obstructive pulmonary disease and bronchiectasis	914	2.0	14	1,268	2.0	8
Spondylosis; intervertebral disc disorders; other back problems	937	2.0	12	1,048	1.6	9
Skin and subcutaneous tissue infections	1,071	2.3	7	897	1.4	12
Cardiac dysrhythmias	1,003	2.2	8	941	1.5	11
Acute cerebrovascular disease	924	2.0	13	990	1.6	10
Diabetes mellitus with complications	984	2.1	9	888	1.4	13
Acute myocardial infarction	1,159	2.5	6	706	1.1	21
Complication of device; implant or graft	948	2.0	11	876	1.4	14
Urinary tract infections	436	0.9	28	1,309	2.1	7

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Note: Clinical Classifications Software (CCS) is diagnostic classification system developed by the Agency for Healthcare Research and Quality (AHRQ). See Appendix A for more information. Table ordered based upon most frequent total diagnoses.

#### Most frequent reasons for hospitalization by age groups:

- Excluding liveborn infants, patients under 1 year were hospitalized most often for acute bronchitis, other perinatal conditions, and hemolytic jaundice and perinatal jaundice.
- For those ages 1-17, asthma, pneumonia (except that caused by tuberculosis or a sexually transmitted disease) and skin and subcutaneous tissue infections made up the top three diagnoses.
- For those ages 18-44, all of the top 10 diagnoses were associated with pregnancy and childbirth. If
  pregnancy and childbirth were excluded, skin and subcutaneous tissue infections, diabetes mellitus
  with complications, and mood disorders became the three most common reasons for hospitalization.
- For those ages 45-64, osteoarthritis, coronary atherosclerosis and other heart disease, and spondylosis; intervertebral disc disorders; other back problems comprised the top three diagnoses.
- For those over 65, congestive heart failure; nonhypertensive, osteoarthritis, and pneumonia (except that caused by tuberculosis or a sexually transmitted disease) were the top three diagnoses.

Though the most common reasons for hospitalization differed by age, pneumonia appeared in the 10 most frequent diagnoses for all five age groups.

#### WHY PATIENTS WERE HOSPITALIZED - INJURIES

#### Injury hospitalizations:

Injury hospitalizations accounted for 8.1 percent of the total number of discharges and \$278 million in aggregate charges in 2011. The majority of patients were admitted through the emergency department, and the average charge for an injury stay ranged from \$18,842 for sprains and strains to \$75,399 for spinal cord injuries, with an overall average charge of \$31,222 (see Appendix A).

The most common primary diagnosis for an injury hospitalization in 2011 was complication of device; implant or graft, which accounted for 20.5 percent of injury hospitalizations. Complications of surgical procedures or medical care were responsible for another 15.1 percent of injury hospitalizations, followed by fracture of neck of femur (hip) (9.0 percent), intracranial injury (8.9 percent), and other fractures (8.6 percent).

Fracture of neck of femur (hip), 9.0% Fracture of upper limb. 4.4% All other injuries and conditions due to external Fracture of lower limb, causes, 19.1% 8.5% Poisoning by other medications and druas. 5.8% Other fractures. 8.6% Complications of surgical procedures or medical care, 15.1% Intracranial injury, 8.9% Complication of device; implant or graft, 20.5%

FIGURE 9. MOST FREQUENT INJURY DIAGNOSES, DELAWARE HOSPITALS, 2011

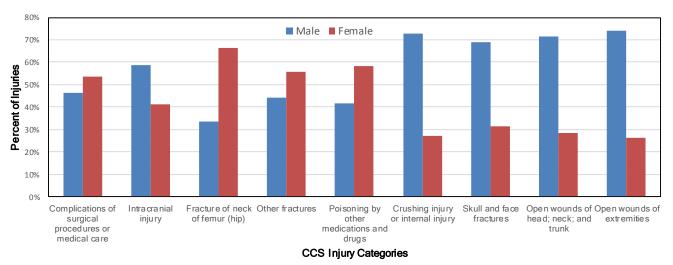
Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Falls were the most frequently specified external cause of injury (as defined by the Ecode listed on the discharge record). Falls accounted for 88.3 percent of hip fractures, 69.1 percent of upper limb fractures, 53.6 percent of intracranial injuries, and 52.9 percent of spinal cord injuries. Motor vehicle accidents were responsible for 28.3 percent of intracranial injuries and 20.0 percent of spinal cord injuries. Poisoning by psychotropic agents accounted for 3.0 percent of all injuries.

#### Gender

The number of injury hospitalizations was split almost equally between males and females, though the distribution varied by specific injury type. Women were more likely to have been hospitalized for hip fractures and other unspecified fractures, poisoning by other medications and drugs, and complications of surgical procedures or medical care. Men were more likely to have been hospitalized for crushing or internal injuries, open wounds of head, neck, and trunk, skull and face fractures, open wounds of extremities, and intracranial injuries.

Figure 10. Selected Primary Injury Diagnoses by Gender, Delaware Hospitals, 2011



# WHY PATIENTS WERE HOSPITALIZED - PROCEDURES

#### Most frequent reasons for hospitalization by procedure:

In 2011, 69 percent of discharges had at least one associated procedure. Of the 76,411 hospital stays with an accompanying procedure, 35.5 percent had only a principal procedure performed; the remaining 64.5 percent had two or more procedures. Each discharge can have up to six procedures; this report examines the total number of procedures, or the all-listed procedures.

The most common types of all-listed procedures were miscellaneous diagnostic and therapeutic, cardiovascular, obstetric, and musculoskeletal. Miscellaneous diagnostic and therapeutic procedures accounted for nearly half of the total procedures and included injections, vaccinations and prophylactic inoculations, CT scans, diagnostic ultrasounds, respiratory intubation and mechanical ventilation, and blood transfusions.

Overall, the most frequently performed all-listed procedures were other procedures to assist delivery; respiratory intubation and mechanical ventilation, diagnostic cardiac catheterization; coronary arteriography, and blood transfusion.

Table 2. Most Frequent All-listed Inpatient Procedures, Delaware Hospitals 2011

	# of All	-listed Pro	cedures	% of Discharges
CCS Procedure	MALE	FEMALE	Total	with a Procedure
Other procedures to assist delivery	0	9,937	9,937	13.0
Respiratory intubation and mechanical ventilation	5,016	4,537	9,553	12.5
Diagnostic cardiac catheterization; coronary arteriography	5,795	3,690	9,485	12.4
Blood transfusion	4,219	4,640	8,859	11.6
Prophylactic vaccinations and inoculations	3,691	3,693	7,384	9.7
Other vascular catheterization; not heart	3,217	3,362	6,579	8.6
Fetal monitoring	0	6,135	6,135	8.0
Ophthalmologic and otologic diagnosis and treatment	3,007	2,912	5,919	7.7
Other OR procedures on vessels other than head and neck	3,246	2,136	5,382	7.0
Circumcision	4,640	0	4,640	6.1
Spinal fusion	2,054	2,302	4,356	5.7
Other diagnostic procedures (interview; evaluation; consultation)	2,117	2,134	4,251	5.6
Repair of current obstetric laceration	0	4,012	4,012	5.3
Cesarean section	0	3,691	3,691	4.8
Upper gastrointestinal endoscopy; biopsy	1,485	1,782	3,267	4.3

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Notes: All-listed procedures refer to all procedures performed during a hospital stay: excludes other therapeutic procedures. Excludes 48 unknown genders.

Males most frequently underwent diagnostic cardiac catheterization; coronary arteriography, respiratory intubation and mechanical ventilation; and circumcision. Females most frequently underwent other procedures to assist delivery, fetal monitoring, and blood transfusion. Four of the 10 most commonly performed procedures on females were related to pregnancy and childbirth.

See the definition of Procedure Classes in the Definitions section of the Technical Notes.

A major component of obstetrical procedures is related to cesarean delivery of newborn infants. Since 1996, annual cesarean delivery rates increased for every hospital in Delaware; by 2011, 32.4 percent of all births were delivered by cesarean. Saint Francis Hospital and Christiana Care Health System showed the greatest increases, rising 88.0 percent and 41.3 percent respectively. In 2011, Milford Memorial and Saint Francis Hospital had the highest rates, with 35.4 percent and 33.5 percent of all births being delivered by cesareans. Nanticoke Memorial Hospital had the lowest percentage of births delivered by cesarean (28.4 percent).

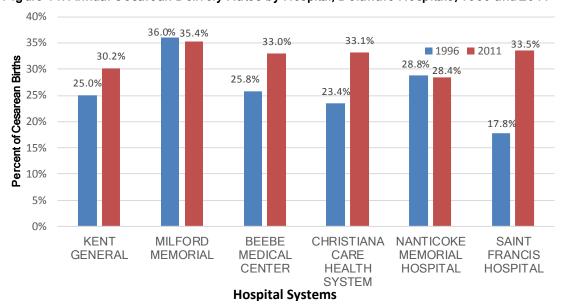


Figure 11. Annual Cesarean Delivery Rates by Hospital, Delaware Hospitals, 1996 and 2011

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

#### Gender

In 2011, obstetrical procedures accounted for one in four all-listed procedures performed on females and included other procedures to assist delivery, fetal monitoring, cesarean sections, repair of current obstetrical laceration, and artificial rupture of membranes.

For males, diagnostic cardiac catheterization; coronary arteriography accounted for 7.8 percent of the total procedures, followed by respiratory intubation and mechanical ventilation (6.7 percent), and circumcision (6.2 percent).

The following procedures were present in the ten most commonly performed procedures for both males and females:

- diagnostic cardiac catheterization; coronary arteriography
- blood transfusion.
- respiratory intubation and mechanical ventilation
- prophylactic vaccinations and inoculations
- other vascular catheterization; not heart.

# WHY PATIENTS WERE HOSPITALIZED - PROCEDURES

#### Age

- For patients under 1 year, prophylactic vaccinations and inoculations, ophthalmologic and otologic diagnosis and treatment; and circumcision were the most common procedures.
- For patients ages 1 to 17, other therapeutic procedures on muscles and tendons, other or therapeutic procedures on bone, and blood transfusion were the most frequently performed procedures.
- Obstetric procedures, specifically other procedures to assist delivery, fetal monitoring, and other therapeutic procedures, were the most common procedures for those ages 18-44.
- Other therapeutic procedures, diagnostic cardiac catheterization; coronary arteriography, and respiratory intubation and mechanical ventilation were the most frequently performed procedures for those ages 45-64.
- The most commonly performed principal procedures on patients 65 and older were other therapeutic procedures, diagnostic cardiac catheterization; coronary arteriography, and blood transfusion.

Hospital stays for Delaware residents were based on inpatient discharges from Delaware hospitals only; as such, information about residents who went out of state for hospital care are not represented in the following statistics.

Discharge rates of Delaware residents under the age of 1 were higher than the rates of all other age groups except those 65 and older. Discharge rates decreased with each increase in age group between patients under 1 and those ages 10-14. The trend reversed at the 15-19 age group and other than a slight dip in the rates for those 35-54, rates rose steadily with each older age group. Male and female discharge rates were similar for age groups under 15 and over 44; females in 15-44 age groups had discharge rates 1.8 to 5.6 times that of males.

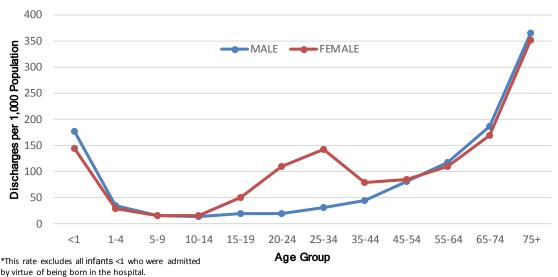
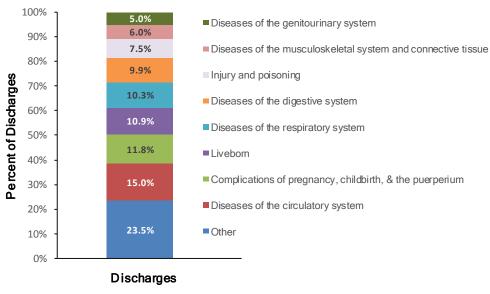


Figure 12. Resident Discharge Rates\* by Sex and Age, Delaware Hospitals, 2011

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

In 2011, Delawareans were discharged most frequently for diseases of the circulatory system, accounting for 15.0 percent of resident hospital stays. The most common diagnoses for diseases of the circulatory system included heart failure, coronary artery disease, and irregular heartbeat. Pregnancy and childbirth; and newborn infants were the second and third most common reasons for resident hospital stays. These were followed by diseases of the respiratory system: pneumonia, COPD (chronic obstructive pulmonary disease), and asthma. The fifth most common diagnoses were diseases of the digestive system, including biliary tract

Figure 13. Percent of Resident Discharges by Body System Delaware Hospitals, 2011

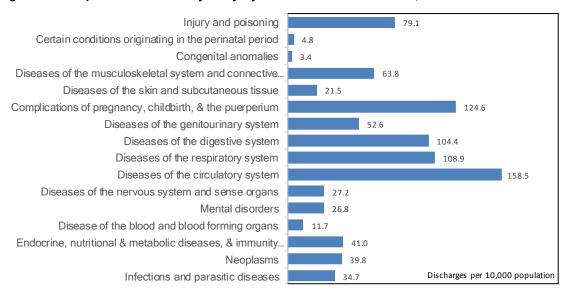


Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

disease, gastrointestinal hemorrhage, and intestinal obstruction.

#### HOSPITALIZATIONS OF DELAWARE RESIDENTS

Figure 14. Hospitalization Rates by Body System\* Delaware Residents, 2011

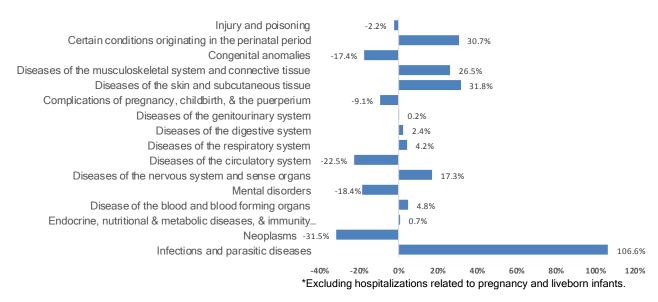


\*Excluding hospitalizations related to pregnancy and liveborn infants.

Source: Delaware Health and Social Services. Division of Public Health. Delaware Health Statistics Center

High hospital discharge rates in 2011 were not necessarily indicative of large rate increases over the previous 10 years. In some categories, like diseases of the circulatory system, high 2011 rates were maintained in spite of declines over the prior ten-year period. In others, such as diseases of the skin, and infectious and parasitic diseases, 2011 rates were comparatively low, though both had exhibited significant rate increases over the prior ten-year period.

Figure 15. Percent Change in Hospitalization Rates by Body System\* Delaware Residents, 2001 versus 2011



#### HOSPITALIZATIONS OF DELAWARE RESIDENTS

When the specific diagnoses that comprise each body system were examined, the following 25 principal diagnoses had the highest discharge rates of Delaware residents in 2011.

Table 3. Top 25 CCS Diagnoses with the Highest Hospital Discharge Rates\* for Delaware Residents

	2001	-	2006		2011		% Change from
	Number	Rate	Number	Rate	Number	Rate	2001 to 2011
Pneumonia (except that caused by tuberculosis or STD)	2,762	34.7	2,830	32.9	3,095	34.1	-1.7%
Osteoarthritis	1,389	17.5	2,289	26.6	2,770	30.5	74.3%
Congestive heart failure; nonhypertensive	2,639	33.2	2,834	33.0	2,560	28.2	-15.1%
Septicemia (except in labor)	701	8.8	1,604	18.7	2,487	27.4	211.4%
Chronic obstructive pulmonary disease and bronchiectasis	1,417	17.8	1,582	18.4	2,064	22.7	27.5%
Cardiac dysrhythmias	1,717	21.6	1,769	20.6	1,719	18.9	-12.5%
Skin and subcutaneous tissue infections	1,024	12.9	1,780	20.7	1,714	18.9	46.5%
Spondylosis; intervertebral disc disorders; other back problems	1,422	17.9	1,613	18.8	1,701	18.7	4.5%
Diabetes mellitus with complications	1,177	14.8	1,412	16.4	1,696	18.7	26.4%
Acute cerebrovascular disease	1,359	17.1	1,413	16.4	1,675	18.4	7.6%
Acute and unspecified renal failure	402	5.1	1,190	13.8	1,586	17.5	243.1%
Urinary tract infections	1,153	14.5	1,650	19.2	1,574	17.3	19.3%
Acute myocardial infarction	1,959	24.6	1,515	17.6	1,527	16.8	-31.7%
Complication of device; implant or graft	1,131	14.2	1,448	16.9	1,460	16.1	13.4%
Rehabilitation care; fitting of prostheses; and adjustment of device	2,110	26.5	1,747	20.3	1,435	15.8	-40.4%
Coronary atherosclerosis and other heart disease	2,201	27.7	2,348	27.3	1,233	13.6	-50.9%
Respiratory failure; insufficiency; arrest (adult)	664	8.3	1,394	16.2	1,203	13.3	60.2%
Biliary tract disease	1,081	13.6	1,168	13.6	1,145	12.6	-7.4%
Complications of surgical procedures or medical care	1,040	13.1	1,255	14.6	1,128	12.4	-5.3%
Asthma	1,295	16.3	1,540	17.9	1,065	11.7	-28.2%
Fluid and electrolyte disorders	1,537	19.3	1,284	14.9	1,028	11.3	-41.5%
Intestinal obstruction without hernia	735	9.2	882	10.3	957	10.5	14.1%
Gastrointestinal hemorrhage	910	11.4	853	9.9	957	10.5	-7.9%
Mood disorders	1,090	13.7	1,526	17.8	892	9.8	-28.5%
Diverticulosis and diverticulitis	804	10.1	870	10.1	844	9.3	-7.9%

<sup>\*</sup>Hospitalization rate per 10,000, ranked by 2011 figures. Excluding pregnancy-related discharges and liveborn infants.

Diseases of the circulatory system accounted for five of the 25 conditions with the highest hospitalization rates; these included:

- congestive heart failure;
- coronary atherosclerosis and other heart disease (coronary artery disease);
- cardiac dysrhythmias (irregular heartbeat)
- acute cerebrovascular disease (stroke)
- acute myocardial infarction (heart attack).

Four of the circulatory conditions listed above showed significant decreases in their rates since 2001: heart failure, coronary artery disease, irregular heartbeat, and heart attack.

Hospitalization rates for acute and unspecified renal failure, septicemia (except in labor), and osteoarthritis demonstrated the greatest increases between 2001 and 2011.

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

0

Diseases of the

circulatory

system

180
160
160
140
120
00001
100
100
40
20

Figure 16. Delaware Resident Discharge Rates by Body System and Gender Delaware Hospitals, 2011

Clinical Classifications Software (CCS) Diagnosis

Diseases of the Diseases of the

genitourinary

system

musculoskeletal

system and

connective tissue

Neoplasms

Other conditions

Infections and

parasitio

diseases

Diseases of the

nervous system

and sense

organs

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Injury and

Diseases of the Diseases of the

digestive system

respiratory

system

Women's higher discharge rate for diseases of the digestive system was due in large part to their higher discharge rates of biliary tract disease and intestinal infection. Likewise, osteoarthritis and pathological fractures contributed to the female to male disparity in hospitalization rates for diseases of the musculoskeletal system. The largest difference between men and women occurred in the diseases of genitourinary system and was driven primarily by women's higher rate of stays for urinary tract infections. Males had higher discharge rates for heart attack and coronary artery disease, which resulted in their higher overall hospitalization rates for circulatory diseases.

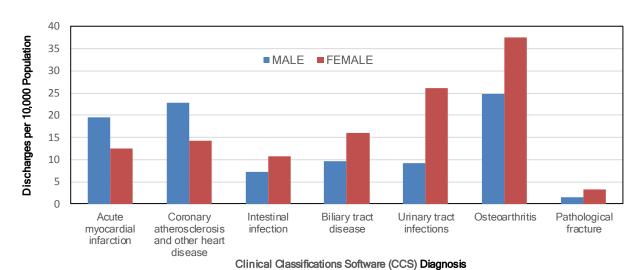


Figure 17. Delaware Hospitals Discharge Rates for Residents by Gender and Selected Primary Diagnoses, 2011

# Point of Origin:

Non-health facilities and clinic/physician offices accounted for 86.1 percent of all hospital discharges in 2011. The majority of the remaining points of origin were transfers from nursing homes (skilled nursing facilities (SNF), intermediate care facilities (ICF), assisted living facilities (ALF)) 8.8 percent, and other hospitals, 2.3 percent.

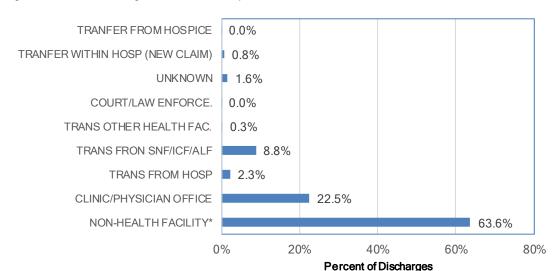


Figure 18. Point of Origin Delaware Hospitals, 2011

Between 2001 and 2011, the majority of admissions continued to be classified as emergency in nature. In 2001, emergency admissions accounted for 64.0 percent of all admissions. By 2011, the proportion of emergency admissions had increased to 67.1 percent, while urgent admissions fell from 13.6 percent to 11.0 percent between 2001 and 2011.

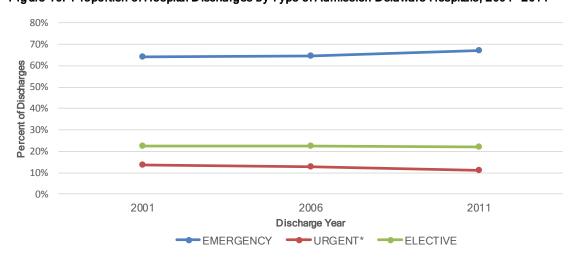


Figure 19. Proportion of Hospital Discharges by Type of Admission Delaware Hospitals, 2001-2011

<sup>\*</sup> Non-Health Care Facility includes walk-ins, auto accidents, and ambulance runs Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

<sup>\*</sup> Urgent encompasses situations that require immediate attention due to a physical or mental disorder but are not life threatening

#### HOW PATIENTS WERE ADMITTED

All primary payers experienced an increase in the percent of discharges coming from the ED, and uninsured patients dropped from the largest proportion of their stays originating in the ED to second place. In 2011, 65.5 percent of uninsured admissions, 75.6 percent of Medicare admissions, 41.8 percent of private admissions, and 41.6 percent of Medicaid admissions were admitted through the ED.

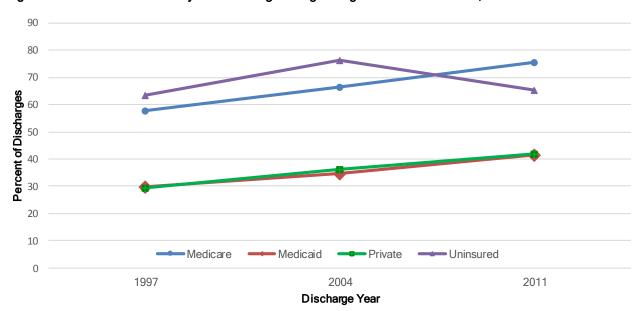


Figure 20. Percent of each Payer's Discharges Originating in the ED Delaware, 1997-2011

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

The most common diagnoses of patients admitted through the ED were pneumonia, heart failure, and septicemia.

Table 4. Most Common Diagnoses for ED Admissions

Delaware Hospitals, 2011 Frequency Percent \*

Pneumonia (except that caused by tuberculosis or STD)	3,158	5.1
Congestive heart failure; nonhypertensive	2,562	4.1
Septicemia (except in labor)	2,530	4.1
Chronic obstructive pulmonary disease and bronchiectas	2,046	3.3
Acute cerebrovascular disease	1,823	2.9
Cardiac dysrhythmias	1,645	2.6
Skin and subcutaneous tissue infections	1,633	2.6
Urinary tract infections	1,629	2.6
Acute myocardial infarction	1,610	2.6
Diabetes mellitus with complications	1,558	2.5

<sup>\*</sup> Refers to the percent of discharges that originated in the ED.

- There was no change in the ten most common diagnoses originating in the ED from 2010 to 2011. The
  most notable difference was urinary tract infections; its rank changed from sixth to eighth place.
- Four of the 10 most common emergency department diagnoses were related to circulatory conditions: heart failure, stroke, heart attack, and irregular heartbeat.
- Another four of the most common emergency department diagnoses were primarily due to infections: pneumonia, skin infections, septicemia, and urinary tract infections.

#### Inpatient charges:

The total charges for a hospitalization represent the total amount billed for that particular stay. In this report, hospital charges for care are reported, not the actual costs of providing the care or what the hospitals were reimbursed. These charges include accommodations, ancillary services (e.g. pharmacy, lab, radiology and anesthesiology), and services of resident physicians.

In 2011, total aggregate charges for all hospitalizations in Delaware equaled \$2.79 billion, almost double the aggregate charges in 2003. The number of discharges rose from 107,037 in 2003 to 109,965 in 2011, a 2.7 percent increase.

\$3,000,000,000 140,000 120.000 \$2,500,000,000 100,000 \$2,000,000,000 Aggregate Charges 80,000 \$1,500,000,000 \$1,000,000,000 40,000 \$500.000.000 20.000 \$0 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 Year Aggregate Charges — Total Discharges

Figure 21. Number of Discharges and Total Aggregate Charges by Year Delaware Hospitals, 1995-2011

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

The average charge for a hospital stay rose from 23,937 in 2010 to \$25,359 in 2011. The median charge per stay was \$14,195 in 2011, compared to \$13,542 in 2010.

The diagnostic groups with the highest average charges per hospital stay were congenital anomalies, perinatal conditions, and infections and parasitic diseases, with average charges ranging from \$40,475 to \$134,908. These three diagnostic groups also had the longest average stays, ranging from 7.9 to 11.7 days.

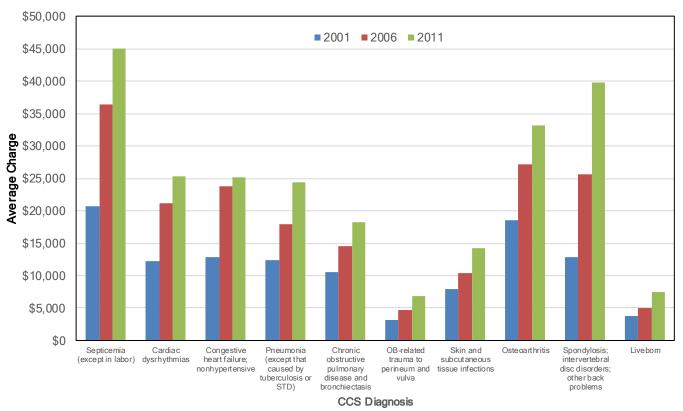
Looking at specific diagnoses within groups showed that the most expensive diagnoses were cardiac and circulatory congenital anomalies, leukemias, respiratory distress syndrome, and attention-deficit. However, the ten most expensive diagnoses occurred relatively rarely and accounted for just 1.4 percent of all discharges in 2011. In comparison, the 10 diagnoses that occurred most frequently accounted for 31.1 percent of the total discharges in 2011 (see Appendix E for more information).

#### HOSPITAL CHARGES AND BILLING

From 2001 to 2011, the average charges rose for each of the 10 highest volume diagnoses. The highest volume diagnoses whose average charges increased the most were:

- spondylosis; intervertebral disc disorders; other back problems (211 percent),
- septicemia (except in labor) (118 percent).
- OB-related trauma to perineum and vulva (114 percent).

Figure 22. Average Hospital Charges for Highest\* Volume CCS Diagnoses Delaware Hospitals, 2001-2011



<sup>\*</sup>Based on 10 most common diagnoses in 2011.

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

Though the average charges of the high volume diagnoses increased over time, the proportion of total aggregate charges represented by them experienced very little growth.

- In 2001, the aggregate charges for 2011's highest volume diagnoses totaled \$233.3 million and accounted for 21.0 percent of the total aggregate charges for all diagnoses.
- By 2011, the aggregate charges for those same diagnoses had more than doubled to \$680.7 million, which accounted for 24.4 percent of the total aggregate charges.

In 2011, the 10 conditions with the highest total billed charges accounted for 31.5 percent of the total aggregate charges. Septicemia (except in labor) incurred the largest aggregate charges of any diagnosis, resulting in a total hospital bill of \$122.5 million. Although hospital stays for newborns had relatively low average charges, their high frequency resulted in liveborn infants having the third highest aggregate charges (see Appendix E for more information).

### HOSPITAL CHARGES AND BILLING

#### Insurance status:

The following payer sources are listed in this report:

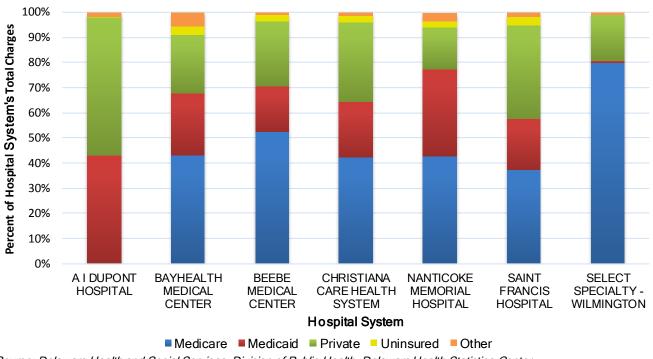
- Medicare
- Medicaid
- Private insurance carriers, such as:
  - Blue Cross Blue Shield
  - HMOs
  - Commercial insurance
- Uninsured
  - Patients who have no insurance and self-pay
- Other types of insurance, such as:
  - Workman's compensation
  - CHAMPUS (Civilian Health and Medical Program of the Uniformed Services)
  - Other government sponsored programs

In 2011, 64.2 percent of hospitalizations were billed to Medicare (39.8 percent) and Medicaid (24.3 percent), 31.0 percent were billed to private insurance, and the remaining 4.8 percent was billed to other types of coverage (2.4 percent) or to the patient (2.4 percent uninsured).

Patients whose care was primarily billed to Medicare had both the highest average charges and the greatest aggregate charges.

In 2011, Select Specialty - Wilmington had the highest percent of charges billed to Medicare. A I duPont Hospital for Children had the highest percentage billed to both privately insured and Medicaid covered patients, and Bayhealth Medical Center had the highest percent of charges with no coverage.

Figure 23. Distribution of Total Charges by Primary Payer Type and Hospital System Delaware, 2011



#### HOSPITAL CHARGES AND BILLING

#### Medicare:

From 1997 to 2011, the percent of hospital stays whose primary payer was Medicare increased from 35.6 to 39.8 percent. Over the same time period, the proportion of aggregate charges billed to Medicare remained at 47 percent.

Four of the 10 most frequent diagnoses for Medicare patients were related to diseases of the circulatory system. The three most frequent diagnoses accounted for 14.1 percent of Medicare hospitalizations. The three most frequent diagnoses for Medicare patients in 2011 were<sup>7</sup>:

- congestive heart failure; nonhypertensive
- pneumonia (except that caused by tuberculosis or a sexually transmitted disease)
- septicemia (except in labor).

#### Medicaid:

From 1997 to 2011, Medicaid covered hospitalizations increased from 12.5 percent to 24.3 percent. Over the same time period, the proportion of aggregate charges billed to Medicaid rose from 10.9 percent to 21.3 percent.

Five of the 10 most frequent diagnoses for Medicaid patients were related to pregnancy and childbirth. The three most frequent diagnoses accounted for 29.3 percent of Medicaid stays. The three most frequent diagnoses for Medicaid patients in 2011 were<sup>7</sup>:

- liveborn infants;
- OB-related trauma to perineum and vulva
- other complications of birth; puerperium affecting management of mother.

#### **Private Insurers:**

From 1997 to 2011, privately insured stays decreased from 44.2 percent to 31.0 percent. Over the same time period, the proportion of aggregate charges billed to private insurance decreased from 35.8 percent to 27.5 percent.

Four of the 10 most frequent diagnoses for patients whose primary payer was private insurance were related to pregnancy and childbirth. The most frequent diagnosis, liveborn infants, accounted for 15.0 percent of all stays covered by private insurers. The three most frequent diagnoses for privately insured patients in 2011 were<sup>7</sup>:

- liveborn infants;
- OB-related trauma to perineum and vulva
- osteoarthritis.

#### Uninsured:

From 1997 to 2011, uninsured hospitalizations decreased from 4.3 percent to 2.4 percent. Over the same time period, the proportion of aggregate charges billed to uninsured patients decreased from 3.4 percent to 2.0 percent.

The three most frequent diagnoses accounted for 13.8 percent of uninsured stays.

The three most frequent diagnoses for uninsured patients in 2011 were<sup>7</sup>:

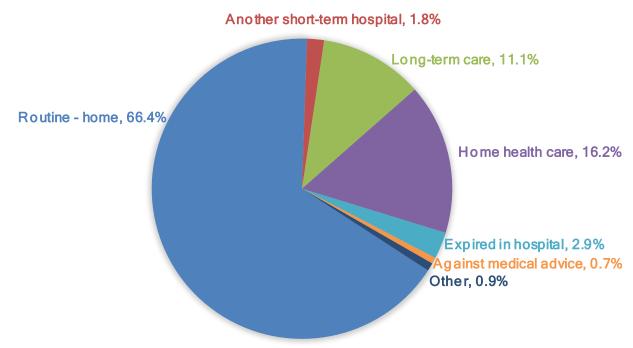
- mood disorders;
- liveborn
- skin and subcutaneous tissue infections.

See Appendix F for the top 10 principal diagnoses by payer type.

## **Patient Discharge Status:**

A patient's discharge status refers to how a person is discharged from the hospital and includes discharges to home, long-term care and other non-acute care facilities, other short-term hospitals, patients who left against medical advice, and patients who died while in the hospital. In 2011 the majority of patients (66.4 percent) were discharged to their homes, less than three percent of patients died in the hospital, and less than one percent left against medical advice.

Figure 24. Percent of Discharges by Discharge Status Delaware Hospitals, 2011



# **Expired Patients:**

Patients who died during their hospital stay contributed to the "in-hospital mortality" figures. Data about in-hospital mortality are expressed as either numbers of deaths, or percentages of deaths. Both the frequencies and percentages are presented, as each statistic provides a different perspective for reviewing the data.

#### **Frequencies**

Patients with the following diagnoses experienced the highest numbers of in-hospital mortality:

- septicemia (except in labor)
- other aftercare
- acute cerebrovascular disease.

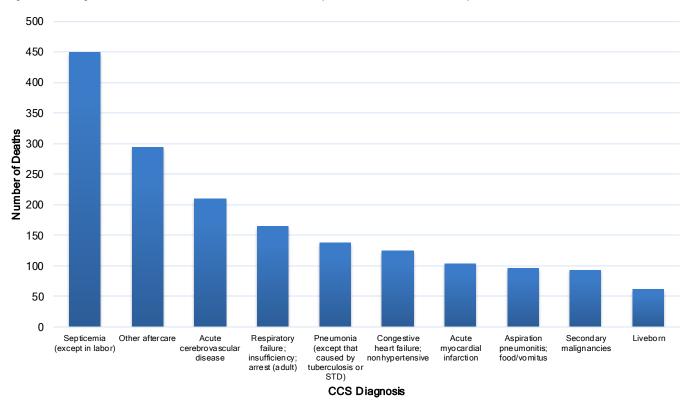


Figure 25. Diagnoses with the Greatest Numbers of In-Hospital Deaths Delaware Hospitals, 2011

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

The most frequent causes of in-hospital mortality varied by age group. Low birthweight and prematurity accounted for the largest number of deaths to those under one, while respiratory failure caused the highest number of deaths to those ages 1-17. For patients 18 and older, septicemia accounted for the greatest number of deaths.

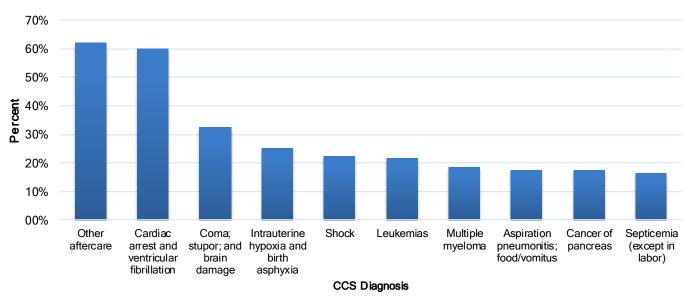
Patients ages 65 and older accounted for 70.0 percent of all in-hospital mortality. For more information see Appendices G and H.

#### **Percentages**

Those diagnoses with the greatest percentages of in-hospital mortality were:

- other aftercare
- cardiac arrest and ventricular fibrillation
- coma; stupor; and brain damage
- intrauterine hypoxia and birth asphyxia.

Figure 26. CCS Diagnoses with the Greatest Percent of In-Hospital Mortality Delaware Hospitals, 2011



Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

#### Patients who left against medical advice:

Less than 1 percent of patients left the hospital against medical advice. Males were nearly twice as likely as females to leave the hospital against medical advice; uninsured patients were about eight times as likely when compared to privately insured patients.

The three most frequent diagnoses of patients who left the hospital against medical advice were diabetes mellitus with complications, skin and subcutaneous tissue infections, and alcohol-related disorders.

- For women, diabetes mellitus with complications, chronic obstructive pulmonary disease and bronchiectasis, and asthma made up the top three.
- For men, alcohol-related disorders, diabetes mellitus with complications, and skin and subcutaneous tissue infections made up the top three.

## Patients transferred to another facility:

The majority of patients discharged to another facility were transferred to a long-term care (LTC) facility. For those 65 and older, each 10 year increase in patient age nearly doubled the percent of those transferred to LTC facilities. In 2011, around 3 percent of those under 65 were discharged to long-term care facilities, compared to 16.4 percent of those ages 65-74, 28.3 percent of those ages 75-84, and 43.3 percent of those 85 and older.

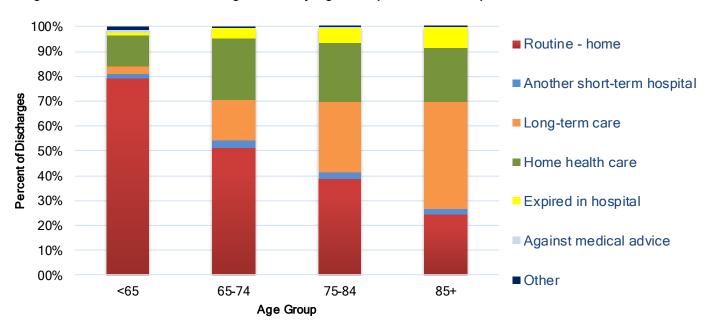


Figure 27. Distribution of Discharge Status by Age Group Delaware Hospitals, 2011

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

In 2011, the most common diagnoses for patients discharged to LTC facilities were septicemia (except in labor), pneumonia (except that caused by tuberculosis or a sexually transmitted disease), and osteoarthritis.

- The three most common diagnoses for patients under 65 (excluding liveborn infants) were septicemia (except in labor), osteoarthritis, and acute cerebrovascular disease.
- For patients ages 65-74, osteoarthritis, septicemia (except in labor), and acute cerebrovascular disease were the three most common diagnoses.
- For patients ages 75-84, septicemia (except in labor), fracture of neck of femur (hip), and congestive heart failure; nonhypertensive were the three most common diagnoses.
- For patients 85 and older, fracture of neck of femur (hip), pneumonia (except that caused by tuberculosis or a sexually transmitted disease) and congestive heart failure; nonhypertensive were the three most common diagnoses.

# A.I. duPont Hospital for Children

2011 Discharge I	Distribution
------------------	--------------

2011 Disc	harge Dis	stribution
Zip / State	Number	%
PA	2,570	<u></u> 29.4%
NJ	1,242	14.2%
19720	463	5.3%
19805	459	5.3%
MD	388	4.4%
19702	307	3.5%
19802	237	2.7%
19701	230	2.6%
19713	210	2.4%
19711	188	2.2%
19709	184	2.1%
19808	178	2.0%
19801	174	2.0%
Other State	129	1.5%
19810	123	1.4%
19901	114	1.3%
19803	103	1.2%
19804	102	1.2%
19977	99	1.1%
19703	96	1.1%
19809	85	1.0%
19947	81	0.9%
19973	72	0.8%
19956	72	0.8%
19707	71	0.8%
19904	66	0.8%
19734	62	0.7%
19963	57	0.7%
19966	54	0.6%
19943	54	0.6%
Undisclosed*	42 41	0.5%
19938	41	0.5% 0.5%
19960 19962	39	0.5% 0.4%
19934	39	0.4%
19968	28	0.4%
19952	24	0.3%
19806	22	0.3%
19958	20	0.2%
19950	19	0.2%
19807	19	0.2%
19933	17	0.2%
19945	16	0.2%
19971	15	0.2%
19940	14	0.2%
19975	12	0.1%
19953	12	0.1%
19939	11	0.1%
19946	11	0.1%
19706	10	0.1%
Unknown	9	0.1%
Total	8,731	100.0%
		10

Utilization Characteristics

	2009	2010	2011
Aggregate charges	\$372,061,971	\$390,496,749	\$415,836,086
Aggregate charges	\$372,061,971	\$390,496,749	\$47,628
Average charges	\$36,277 \$7,811	\$38,284 \$7,960	\$47,628 \$8,250
Average charge per day  Number of Discharges	10,256	10,200	8,731
Total All-listed Procedures 1	10,423		10,814
		10,352	
Non-operating room procedures 2	5,361	5,474	5,780
Valid operating room procedures 2	5,062	4,878	5,034
Average Lenth of Stay	4.6	4.8	5.5
Primary Payer Distribution	0.00/	0.40/	0.00/
Medicare	0.2%	0.1%	0.2%
Medicaid	41.1%	43.4%	43.0%
Private Insurance	55.4%	52.8%	54.9%
Uninsured	1.5%	1.3%	0.0%
Other	1.9%	2.4%	1.9%
Admission Source Distribution			
Routine	25.3%	26.1%	30.6%
Other short-term hospital	10.1%	10.0%	9.9%
Long-term care facility	0.7%	0.5%	0.8%
ER	63.0%	62.6%	57.8%
Other	0.9%	0.8%	0.8%
Discharge Status Distribution			
Routine - home	93.0%	92.1%	90.2%
Another short-term hospital	0.6%	0.5%	0.7%
Long-term care facility	0.5%	1.0%	1.2%
Home health care	4.6%	4.8%	6.6%
Expired in hospital	0.4%	0.5%	0.5%
Left against medical advice	0.1%	0.1%	0.1%
Other/Unknown	0.7%	1.0%	0.7%
Sex		·	
Male	55.5%	53.9%	54.7%
Female	44.5%	46.1%	45.3%
Age		·	
<1	23.6%	23.6%	23.5%
1-4	27.6%	26.9%	25.5%
<i>5-9</i>	17.6%	17.0%	16.7%
10-14	17.8%	16.7%	18.3%
<i>15-19</i>	12.8%	14.7%	15.2%
20-24	0.5%	0.7%	0.8%
<i>25-34</i>	0.0%	0.0%	0.0%
<i>35-44</i>	0.0%	0.0%	0.0%
<i>45-54</i>	0.0%	0.0%	0.0%
<i>55-64</i>	0.0%	0.0%	0.0%
<i>65-74</i>	0.0%	0.0%	0.0%
75+	0.0%	0.0%	0.0%
Unknown	0.0%	0.4%	0.0%

#### Notes:

<sup>1.</sup> Total all-listed procedures represents the total number of procedures performed; up to six procedures may be recorded per discharge, as a result the total number of all-listed procedures can exceed the total number of discharges.

<sup>2.</sup> Procedures were classified using AHRQ's HCUP procedure class software. See AHRQ's website for more information: <a href="http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/

<sup>3.</sup> Percentages may not sum to 100 due to rounding.

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

<sup>\*</sup>Zip codes with less than 10 cases

### BayHealth Medical Center (includes both Milford Memorial and Kent General Hospitals)

2011 Disc		•	Utilizatio	n Characteri	•	
Zip / State	Number	%		2009	2010	2011
19901	3,508	18.2%	Aggregate charges	\$398,952,631	\$413,935,557	\$417,751,170
19904	2,761	14.3%	Average charges	\$19,785	\$20,902	\$21,642
19963	1,986	10.3%	Average charge per day	\$5,230	\$5,362	\$5,388
19977	1,497	7.8%	Number of Discharges	20,164	19,804	19,303
19943	1,149	6.0%	Total All-listed Procedures <sup>1</sup>	21,504	19,987	18,246
19934	1,047	5.4%	Non-operating room procedures <sup>2</sup>	14,284	13,185	12,104
19952	1,013	5.2%	Valid operating room procedures 2	7,220	6,802	6,142
19962	828	4.3%	Average Lenth of Stay	4.9	4.9	4.8
19960	515	2.7%	Primary Payer Distribution	1.0	1.0	1.0
19938	465	2.4%	Medicare	42.4%	43.4%	43.4%
19946	459	2.4%				
MD	410	2.1%	Medicaid	24.0%	24.0%	24.4%
19950	383	2.0%	Private Insurance	24.5%	23.1%	23.1%
19947	355	1.8%	Uninsured	3.1%	3.2%	3.4%
19953	351	1.8%	Other	6.0%	6.3%	5.8%
19968	239	1.2%	Admission Source Distribution			
19966	195	1.0%	Routine	34.6%	32.1%	31.9%
Other State	179	0.9%	Other short-term hospital	0.4%	0.3%	0.4%
19941	167	0.9%	Long-term care facility	0.0%	11.2%	11.1%
19954	160	0.8%	ER	53.5%	56.3%	55.7%
19933	159	0.8%	Other	11.5%	.1%	.9%
19958	148	0.8%	Discharge Status Distribution			
19973	144	0.7%	Routine - home	67.7%	68.3%	68.3%
19734	138	0.7%		2.5%	2.4%	2.7%
19709	132	0.7%	Another short-term hospital			
19964	116	0.6%	Long-term care facility	9.5%	12.2%	13.2%
19956	80	0.4%	Home health care	13.4%	13.1%	12.0%
19979	72	0.4%	Expired in hospital	1.9%	1.8%	1.9%
PA	71	0.4%	Left against medical advice	1.0%	1.2%	0.9%
Undisclosed'		0.3%	Other/Unknown	4.0%	1.0%	1.0%
19971	57	0.3%	Sex			
19936	55	0.3%	Male	40.5%	41.0%	41.1%
19903	52	0.3%	Female	59.5%	59.0%	58.9%
19939	47	0.2%	Age			
NJ	38	0.2%	<1	13.3%	12.8%	13.1%
19955	36	0.2%	1-4	1.2%	1.0%	1.1%
19945	33	0.2%	<i>5-9</i>	0.6%	0.5%	0.4%
19701	30	0.2%		0.4%	0.4%	0.4%
19980	22	0.1%	10-14			
19970	20	0.1%	<i>15-19</i>	2.4%	2.2%	1.9%
19720	18	0.1%	20-24	5.6%	5.1%	5.1%
19975	17	0.1%	<i>25-34</i>	9.5%	10.0%	10.2%
19702	17	0.1%	<i>35-44</i>	6.7%	7.6%	6.4%
19951	16	0.1%	<i>45-54</i>	11.0%	10.7%	11.1%
19930	13	0.1%	<i>55-64</i>	12.4%	13.2%	13.0%
19961	11	0.1%	<i>65-74</i>	14.6%	15.3%	15.6%
19940	10	0.1%	<i>75+</i>	22.2%	21.3%	21.9%
19902	10	0.1%	Notes:	·	· ·	-
Unknown	8	0.0%	1. Total all-listed procedures represents the total nur	nher of procedures perfo	rmed: un to siv procedu	res may he
Total	19,303	100.0%	recorded per discharge, as a result the total number			,

<sup>\*</sup>Zip codes with less than 10 cases

Total all-listed procedures represents the total number of procedures performed; up to six procedures may be recorded per discharge, as a result the total number of all-listed procedures can exceed the total number of discharges.

<sup>2.</sup> Procedures were classified using AHRQ's HCUP procedure class software. See AHRQ's website for more information: <a href="http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/

<sup>3.</sup> Percentages may not sum to 100 due to rounding.

### **Beebe Medical Center**

2011 Discharge Distribution

Utilization	Characteristics

ZUII DISC	וט narge	stribution	- Ounzauo	ii Cilalacteli	อแบอ	
Zip / State	Number	%		2009	2010	2011
19966	2,061	21.8%	Aggregate charges	\$269,338,839	\$294,962,669	\$300,087,820
19958	1,772	18.7%	Average charges	\$27,031	\$29,552	\$31,672
19971	917	9.7%	Average charge per day	\$8,466	\$8,533	\$9,165
19947	884	9.3%	Number of Discharges	9,964	9,981	9,475
19968	663	7.0%	Total All-listed Procedures <sup>1</sup>	15,457	14,120	13,850
19970	407	4.3%	Non-operating room procedures 2	9,916	9,058	8,545
19939	326	3.4%	Valid operating room procedures 2	5,541	5,062	5,305
19945	284	3.0%	Average Lenth of Stay	3.8	4.0	4.0
MD	205	2.2%	Primary Payer Distribution			
19975	205	2.2%	Medicare	51.4%	52.2%	52.6%
19963	187	2.0%	Medicaid	18.4%	17.5%	18.1%
19930	157	1.7%	Private Insurance	26.2%	26.0%	25.5%
19951	145	1.5%	Uninsured	2.9%	3.3%	2.6%
PA	138	1.5%	Other	1.1%	1.0%	1.2%
19956	126	1.3%	Admission Source Distribution		-	
19973	125	1.3%	Routine	33.0%	29.7%	30.7%
Other State	122	1.3%	Other short-term hospital	0.0%	0.1%	0.0%
19960	121	1.3%	Long-term care facility	9.5%	8.8%	8.4%
Undisclosed*		1.2%	ER	57.5%	61.4%	60.9%
19941	90	0.9%	Other	0.0%	0.0%	0.0%
19933	69	0.7%	Discharge Status Distribution			
19950	65	0.7%	Routine - home	61.3%	60.6%	58.9%
19952	55	0.6%	Another short-term hospital	1.5%	1.6%	1.4%
19901	35	0.4%	Long-term care facility	13.5%	16.0%	16.7%
19967	34	0.4%	Home health care	18.5%	18.2%	19.1%
NJ 19943	29 28	0.3% 0.3%	Expired in hospital	1.9%	2.0%	2.3%
19943	22	0.3%	Left against medical advice	0.6%	0.6%	0.6%
19904	20	0.2%	Other/Unknown	2.7%	1.0%	1.0%
19940	20	0.2%	Sex	•	•	
19969	16	0.2%	Male	44.1%	43.4%	45.3%
19977	14	0.1%	Female	55.9%	56.6%	54.7%
19962	11	0.1%	Age	<del>.</del>		
19720	10	0.1%	<1	10.0%	9.1%	9.1%
Unknown	3	0.0%	1-4	0.5%	0.2%	0.2%
Total	9,475	100.0%	<i>5-9</i>	0.2%	0.2%	0.3%
*Zip codes w			10-14	0.1%	0.2%	0.1%
•			15-19	1.5%	1.4%	1.0%
			20-24	3.4%	3.4%	3.4%
			-	2.170	2	2.170

25-34

35-44

45-54

55-64

65-74

7.0%

5.0%

9.9%

13.7%

20.7%

28.0%

6.5%

5.7%

9.9%

14.5%

20.6%

28.2%

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

7.6%

5.6%

9.8%

15.0%

20.3%

27.7%

<sup>75+</sup> Notes:

<sup>1.</sup> Total all-listed procedures represents the total number of procedures performed; up to six procedures may be recorded per discharge, as a result the total number of all-listed procedures can exceed the total number of discharges.

<sup>2.</sup> Procedures were classified using AHRQ's HCUP procedure class software. See AHRQ's website for more information: http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure.jsp.

<sup>3.</sup> Percentages may not sum to 100 due to rounding.

# Christiana Care Health System (includes both Wilmington and Christiana Hospitals)

Christian	na Care	Health
2011 Disc	harge Dis	tribution
Zip / State	Number	%
19720	6,114	10.4%
19702	4,224	7.2%
19805	3,933	6.7%
19808 19711	3,827 3,494	6.5% 5.9%
19713	3,277	5.6%
19701	3,247	5.5%
MD	3,071	5.2%
19802	2,781	4.7%
PA	2,560	4.3%
19709	2,510	4.3%
19804	1,943	3.3% 3.3%
19801 NJ	1,921 1,793	3.3%
19803	1,752	3.0%
19810	1,752	3.0%
19707	1,233	2.1%
19809	1,232	2.1%
19703	1,143	1.9%
19806	928 780	1.6%
19734 19977	780 680	1.3% 1.2%
19807	591	1.2 %
19901	373	0.6%
19904	348	0.6%
Other State	332	0.6%
19706	301	0.5%
19938	269	0.5%
19966	200	0.3%
19973 19958	172 172	0.3% 0.3%
19963	162	0.3%
19943	119	0.2%
19947	116	0.2%
19956	112	0.2%
19934	109	0.2%
19971	109	0.2%
19962 19952	102 97	0.2% 0.2%
19950	81	0.1%
19899	77	0.1%
19968	72	0.1%
Undisclosed*	70	0.1%
19933	64	0.1%
19953 19730	57 51	0.1% 0.1%
19733	48	0.1%
19970	46	0.1%
19945	42	0.1%
19946	42	0.1%
Unknown	42	0.1%
19960	41	0.1%
19939 19714	36 33	0.1% 0.1%
19941	31	0.1%
19731	30	0.1%
19975	27	0.0%
19710	26	0.0%
19736	22	0.0%
19940	22 17	0.0%
19850 19930	17 17	0.0% 0.0%
19708	17	0.0%
19964	16	0.0%
19954	15	0.0%
19732	14	0.0%
19936	12	0.0%
19701 Total	10 58 957	100.0%

	2009	2010	2011
Aggregate charges		\$1,283,388,855	
Average charges	\$20,793	\$21,926	\$23,066
Average charge per day	\$5,308	\$5,642	\$6,078
Number of Discharges	60,030	58,534	58,957
Total All-listed Procedures <sup>1</sup>	177,496	126,855	129,667
Non-operating room procedures 2	147,365	96,097	99,491
Valid operating room procedures 2	30,131	30,758	30,176
Average Lenth of Stay	5.0	4.9	4.9
Primary Payer Distribution		•	•
Medicare	40.3%	41.4%	42.3%
Medicaid	21.2%	21.7%	22.1%
Private Insurance	34.8%	33.1%	31.7%
Uninsured	2.4%	2.3%	2.3%
Other	1.2%	1.5%	1.6%
Admission Source Distribution			
Routine	43.8%	39.2%	31.2%
Other short-term hospital	0.9%	0.9%	1.2%
Long-term care facility	0.2%	4.9%	11.4%
ER	53.3%	53.9%	54.9%
Other	1.7%	1.1%	1.4%
Discharge Status Distribution			
Routine - home	63.3%	63.1%	63.9%
Another short-term hospital	2.3%	2.0%	1.7%
Long-term care facility	10.4%	10.2%	10.4%
Home health care	20.4%	20.2%	19.2%
Expired in hospital	3.1%	3.1%	3.4%
Left against medical advice	0.6%	0.6%	0.6%
Other/Unknown	0.0%	0.9%	0.8%
Sex			
Male	41.1%	41.2%	40.6%
Female	58.9%	58.8%	59.4%
Age			
<1	11.9%	11.8%	11.8%
1-4	0.2%	0.1%	0.1%
<i>5-9</i>	0.1%	0.1%	0.1%
<i>10-14</i>	0.2%	0.1%	0.1%
<i>15-19</i>	2.1%	1.9%	1.7%
20-24	4.4%	4.5%	4.2%
25-34	12.0%	11.9%	11.8%
35-44	9.8%	9.2%	9.0%
<i>45-54</i>	12.7%	12.5%	12.3%
<i>55-64</i>	13.5%	13.7%	14.4%
<i>65-74</i>	12.8%	13.0%	13.5%
75+	20.3%	21.1%	21.0%

**Utilization Characteristics** 

#### Notes:

<sup>1.</sup> Total all-listed procedures represents the total number of procedures performed; up to six procedures may be recorded per discharge, as a result the total number of all-listed procedures can exceed the total number of discharges.

<sup>2.</sup> Procedures were classified using AHRQ's HCUP procedure class software. See AHRQ's website for more information: <a href="http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure/procedure/spc.">http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure/procedure/spc.</a>

<sup>3.</sup> Percentages may not sum to 100 due to rounding.

# HOSPITAL SPECIFIC DATA

#### **Nanticoke Memorial Hospital**

2011 Discharge Distribution

ZOII DISCHAIGE DISCHDUCTOR				
Zip / State	Number	<u>%</u>		
19973	2,081	35.1%		
19956	1,118	18.8%		
19947	671	11.3%		
19933	627	10.6%		
MD	291	4.9%		
19966	269	4.5%		
19950	213	3.6%		
19940	201	3.4%		
19945	63	1.1%		
Undisclosed*	59	1.0%		
19975	57	1.0%		
19963	45	0.8%		
Other State	40	0.7%		
19968	29	0.5%		
19952	28	0.5%		
19939	26	0.4%		
19901	23	0.4%		
19960	22	0.4%		
19958	16	0.3%		
19941	12	0.2%		
19934	12	0.2%		
19931	12	0.2%		
19970	10	0.2%		
NJ	4	0.1%		
PA	3	0.1%		
Total	5,932	100.0%		

<sup>\*</sup>Zip codes with less than 10 cases

**Utilization Characteristics** 

Number of Discharges   5,808   5,705   5,932     Total All-listed Procedures   10,791   11,227   11,649     Non-operating room procedures   2,9049   9,404   9,373     Valid operating room procedures   1,742   1,823   1,712     Average Lenth of Stay   3,7   3,8   3,6     Primary Payer Distribution		2009	2010	2011
Number of Discharges	Aggregate charges	\$90,783,660	\$96,915,476	\$97,696,138
Number of Discharges	Average charges			
Total All-listed Procedures   10,791   11,227   11,649     Non-operating room procedures   2   9,049   9,404   9,937     Valid operating room procedures   1,742   1,823   1,712     Average Lenth of Stay   3.7   3.8   3.6     Primary Payer Distribution   Medicare   38.5%   40.1%   42.7%     Medicaid   35.9%   36.0%   34.5%     Private Insurance   18.2%   16.5%   16.6%     Uninsured   3.7%   2.9%   2.5%     Other   3.6%   4.5%   36.6%     Admission Source Distribution     Routine   40.7%   40.5%   36.6%     Other short-term hospital   0.0%   0.0%   0.0%     Long-term care facility   0.0%   0.0%   0.0%     ER   59.2%   59.5%   63.3%     Other Other short-term hospital   4.1%   3.1%   3.2%     Long-term care facility   12.7%   13.2%   14.5%     Long-term care facility   15.7%   16.3%   1.6%   1.4%     Left against medical advice   0.5%   0.7%   0.7%     Other/Unknown   0.9%   0.9%   0.9%     Sex   Male   39.6%   40.7%   41.5%     Female   60.4%   59.3%   58.5%     Age   41   15.7%   16.3%   15.2%     1-4   0.5%   0.6%   0.5%     5-9   0.2%   0.2%   0.2%   0.4%     10-14   0.4%   0.1%   0.2%     15-19   2.6%   2.6%   2.6%   2.1%     20-24   7.2%   6.3%   5.9%     25-34   10.4%   10.3%   9.4%     35-44   6.9%   6.4%   6.5%     45-54   10.1%   9.9%   9.3%     55-64   65-74   13.0%   12.2%   13.6%     55-64   13.0%   12.2%   13.6%     55-64   13.0%   12.2%   13.6%     55-64   13.0%   12.2%   13.6%     55-74   13.0%   12.7%   13.8%     56-74   13.0%   12.7%   13.8%     57-74   13.0%   12.7%   13.8%     57-75   13.0%   12.7%   13.6%     55-76   13.0%   12.7%   13.6%     55-76   13.0%   12.7%   13.6%     55-76   13.0%   12.7%   13.6%     55-76   13.0%   12.7%   1	Average charge per day	\$4,522	\$5,033	\$5,058
Non-operating room procedures   2   9,049   9,404   9,937   Yalid operating room procedures   1,742   1,823   1,712		5,808	5,705	5,932
Valid operating room procedures   1,742	Total All-listed Procedures <sup>1</sup>	10,791	11,227	11,649
Average Lenth of Stay   3.7   3.8   3.6     Primary Payer Distribution   Medicare   38.5%   40.1%   42.7%     Medicaid   35.9%   36.0%   34.5%     Private Insurance   18.2%   16.5%   16.6%     Uninsured   3.7%   2.9%   2.5%     Other   3.6%   4.5%   3.6%     Admission Source Distribution   Routine   40.7%   40.5%   36.6%     Other short-term hospital   0.0%   0.0%   0.0%     Long-term care facility   0.0%   0.0%   0.0%     Uninsured   0.0%   0.0%   0.0%     Other Short-term hospital   0.0%   0.0%   0.0%     Long-term care facility   0.0%   0.0%   0.0%     Other   0.0%   0.0%   0.0%     Other   0.0%   0.0%   0.0%     Other   0.0%   0.0%   0.0%     Other   0.0%   0.0%   0.0%     Discharge Status Distribution   Routine - home   67.6%   66.7%     Routine - home   67.6%   67.9%   66.7%     Arnother short-term hospital   4.1%   3.1%   3.2%     Long-term care facility   12.7%   13.2%   14.5%     Home health care   12.4%   12.6%   12.6%     Expired in hospital   1.8%   1.6%   1.4%     Left against medical advice   0.5%   0.7%   0.7%     Other/Unknown   0.9%   0.9%   0.9%     Sex   Male   39.6%   40.7%   41.5%     Female   60.4%   59.3%   58.5%     Age   39.6%   40.7%   41.5%     1-4   0.5%   0.6%   0.5%     5-9   0.2%   0.2%   0.2%   0.4%     10-14   0.4%   0.1%   0.2%     15-19   2.6%   2.6%   2.6%   2.1%     15-19   2.6%   2.6%   2.6%   2.1%     15-19   2.6%   2.6%   2.6%   2.1%     15-19   2.6%   2.6%   2.6%   2.1%     20-24   7.2%   6.3%   5.9%     25-34   10.4%   10.3%   9.4%     35-44   6.9%   6.4%   6.5%     45-54   10.1%   9.9%   9.3%     45-54   10.1%   9.9%   9.3%     45-56   10.1%   9.9%   9.3%     45-56   10.1%   9.9%   9.3%     45-56   13.0%   12.2%   13.6%     65-74   13.0%   12.7%   13.8%     65-74   13.0%   12.7%   13.8%     65-74   13.0%   12.7%   13.8%     65-74   13.0%   12.7%   13.8%     65-74   13.0%   12.7%   13.8%     65-74   13.0%   12.7%   13.8%     65-74   13.0%   12.7%   13.8%     65-74   13.0%   12.7%   13.8%     10.5%   10.5%   10.5%     10.5%   10.5%   10.5%     10.5%   10.5%   10.5%	Non-operating room procedures <sup>2</sup>	9,049	9,404	9,937
Primary Payer Distribution   Medicare   38.5%   40.1%   42.7%   Medicaid   35.9%   36.0%   34.5%   Private Insurance   18.2%   16.5%   16.6%   Uninsured   3.7%   2.9%   2.5%   Other   3.6%   4.5%   3.6%   A.5%   A.5%	Valid operating room procedures 2	1,742	1,823	1,712
Medicare         38.5%         40.1%         42.7%           Medicaid         35.9%         36.0%         34.5%           Private Insurance         18.2%         16.5%         16.6%           Uninsured         3.7%         2.9%         2.5%           Other         3.6%         4.5%         3.6%           Admission Source Distribution         40.7%         40.5%         36.6%           Other short-term hospital         0.0%         0.0%         0.0%           Long-term care facility         0.0%         0.0%         0.0%           ER         59.2%         59.5%         63.3%           Other         0.0%         0.0%         0.0%           Discharge Status Distribution         0.0%         0.0%         0.0%           Routine - home         67.6%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7	Average Lenth of Stay	3.7	3.8	3.6
Medicaid         35.9%         36.0%         34.5%           Private Insurance         18.2%         16.5%         16.6%           Uninsured         3.7%         2.9%         2.5%           Other         3.6%         4.5%         3.6%           Admission Source Distribution         40.7%         40.5%         36.6%           Other short-term hospital         0.0%         0.0%         0.0%           Long-term care facility         0.0%         0.0%         0.0%           ER         59.2%         59.5%         63.3%           Other         0.0%         0.0%         0.0%           Discharge Status Distribution         86.7%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         40.6%         59.3%         58.5%	Primary Payer Distribution	•	•	
Private Insurance	Medicare	38.5%	40.1%	42.7%
Uninsured Other         3.7% 3.6%         2.9% 3.6%           Admission Source Distribution         3.6%         4.5%         3.6%           Routine         40.7% 40.5%         36.6%         36.6%           Other short-term hospital         0.0% 0.0% 0.0%         0.0%         0.0%           Long-term care facility         0.0% 0.0% 0.0%         0.0%         0.0%           Discharge Status Distribution         67.6% 67.9% 66.7%         66.7%           Another short-term hospital         4.1% 3.1% 3.2%         14.5%           Long-term care facility         12.7% 13.2% 14.5%         14.5%           Home health care         12.4% 12.6% 12.6% 12.6%         12.6% 12.6%           Expired in hospital         1.8% 1.6% 1.4% 1.4% 1.6% 1.4%         1.4% 1.4% 1.6% 1.4%           Left against medical advice         0.5% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7	Medicaid	35.9%	36.0%	34.5%
Other         3.6%         4.5%         3.6%           Admission Source Distribution         40.7%         40.5%         36.6%           Routine         40.7%         40.5%         36.6%           Other short-term hospital         0.0%         0.0%         0.0%           Long-term care facility         59.2%         59.5%         63.3%           Other         0.0%         0.0%         0.0%           Discharge Status Distribution         86.76%         67.9%         66.7%           Routine - home         67.6%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         40.7%         41.5%           Female         60.4%         59.3%         58.5%           Age          15.7%         16.3%         15.2%	Private Insurance	18.2%	16.5%	16.6%
Admission Source Distribution         40.7%         40.5%         36.6%           Other short-term hospital         0.0%         0.0%         0.0%           Long-term care facility         0.0%         0.0%         0.0%           ER         59.2%         59.5%         63.3%           Other         0.0%         0.0%         0.0%           Discharge Status Distribution         67.6%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         Male         39.6%         40.7%         41.5%           Female         60.4%         59.3%         58.5%           Age         1         15.7%         16.3%         15.2%           1-4         0.5%         0.6%         0.5%           5-9         0.2%         0.2%	Uninsured			2.5%
Routine         40.7%         40.5%         36.6%           Other short-term hospital         0.0%         0.0%         0.0%           Long-term care facility         0.0%         0.0%         0.0%           ER         59.2%         59.5%         63.3%           Other         0.0%         0.0%         0.0%           Discharge Status Distribution         80.0%         67.9%         66.7%           Routine - home         67.6%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         40.4%         59.3%         58.5%           Age         15.7%         16.3%         15.2%           1-4         0.5%         0.6%         0.5%           5-9         0.2%         0.2%         0.4%           5-9 <td>Other</td> <td>3.6%</td> <td>4.5%</td> <td>3.6%</td>	Other	3.6%	4.5%	3.6%
Other short-term hospital         0.0%         0.0%         0.0%           Long-term care facility         0.0%         0.0%         0.0%           ER         59.2%         59.5%         63.3%           Other         0.0%         0.0%         0.0%           Discharge Status Distribution         Routine - home         67.6%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         Male         39.6%         40.7%         41.5%           Female         60.4%         59.3%         58.5%           Age         1         15.7%         16.3%         15.2%           5-9         0.2%         0.4%         0.5%           5-9         0.2%         0.2%         0.4%           10-14	Admission Source Distribution	,		
Long-term care facility         0.0%         0.0%         0.0%           ER         59.2%         59.5%         63.3%           Other         0.0%         0.0%         0.0%           Discharge Status Distribution         80.0%         0.0%         0.0%           Routine - home         67.6%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         8         40.7%         41.5%           Female         60.4%         59.3%         58.5%           Age         <1	Routine	40.7%	40.5%	36.6%
ER Other         59.2% 0.0%         59.5% 0.0%         63.3% 0.0%           Discharge Status Distribution Routine - home         67.6% 67.9% 66.7% 67.9% 66.7% 66.7% 67.9% 66.7% 66.7% 67.9% 66.7% 66.7% 67.9% 66.7% 66.7% 67.9% 66.7% 67.9% 66.7% 67.9% 13.2% 14.5% 13.2% 14.5% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12.6% 12	Other short-term hospital	0.0%	0.0%	0.0%
Other         0.0%         0.0%         0.0%           Discharge Status Distribution         67.6%         67.9%         66.7%           Routine - home         67.6%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         Male         39.6%         40.7%         41.5%           Female         60.4%         59.3%         58.5%           Age         15.7%         16.3%         15.2%           1-4         0.5%         0.6%         0.5%           5-9         0.2%         0.2%         0.4%           10-14         0.4%         0.1%         0.2%           15-19         2.6%         2.6%         2.1%           20-24         7.2%         6.3%         5.9%           25-34	Long-term care facility	0.0%		0.0%
Discharge Status Distribution   Routine - home   67.6%   67.9%   66.7%   Another short-term hospital   4.1%   3.1%   3.2%   Long-term care facility   12.7%   13.2%   14.5%   Home health care   12.4%   12.6%   12.6%   12.6%   Expired in hospital   1.8%   1.6%   1.4%   Left against medical advice   0.5%   0.7%   0.7%   0.7%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9%   0.9	ER	59.2%	59.5%	63.3%
Routine - home         67.6%         67.9%         66.7%           Another short-term hospital         4.1%         3.1%         3.2%           Long-term care facility         12.7%         13.2%         14.5%           Home health care         12.4%         12.6%         12.6%           Expired in hospital         1.8%         1.6%         1.4%           Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         ***         ***         40.7%         41.5%           Female         39.6%         40.7%         41.5%           Female         60.4%         59.3%         58.5%           Age         ***         15.7%         16.3%         15.2%           1-4         0.5%         0.6%         0.5%           5-9         0.2%         0.2%         0.4%           10-14         0.4%         0.1%         0.2%           15-19         2.6%         2.6%         2.1%           20-24         7.2%         6.3%         5.9%           25-34         10.4%         10.3%         9.4%           45-54         10.		0.0%	0.0%	0.0%
Another short-term hospital       4.1%       3.1%       3.2%         Long-term care facility       12.7%       13.2%       14.5%         Home health care       12.4%       12.6%       12.6%         Expired in hospital       1.8%       1.6%       1.4%         Left against medical advice       0.5%       0.7%       0.7%         Other/Unknown       0.9%       0.9%       0.9%         Sex       39.6%       40.7%       41.5%         Female       60.4%       59.3%       58.5%         Age       40.7%       41.5%       15.7%       16.3%       15.2%         1-4       0.5%       0.6%       0.5%       0.6%       0.5%         5-9       0.2%       0.2%       0.2%       0.4%       0.2%         10-14       0.4%       0.1%       0.2%       0.4%       0.2%       0.4%         15-19       2.6%       2.6%       2.6%       2.1%       0.3%       5.9%       0.2%       0.4%       0.5%       0.5%       0.6%       0.5%       0.6%       0.5%       0.6%       0.6%       0.6%       0.6%       0.6%       0.6%       0.6%       0.6%       0.6%       0.6%       0.6%       0.6%	Discharge Status Distribution			_
Long-term care facility       12.7%       13.2%       14.5%         Home health care       12.4%       12.6%       12.6%         Expired in hospital       1.8%       1.6%       1.4%         Left against medical advice       0.5%       0.7%       0.7%         Other/Unknown       0.9%       0.9%       0.9%         Sex       Male       39.6%       40.7%       41.5%         Female       60.4%       59.3%       58.5%         Age        15.7%       16.3%       15.2%         1-4       0.5%       0.6%       0.5%         5-9       0.2%       0.2%       0.2%       0.4%         10-14       0.4%       0.1%       0.2%       0.4%         15-19       2.6%       2.6%       2.1%       20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%       35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%       55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%	Routine - home	67.6%	67.9%	66.7%
Home health care       12.4%       12.6%       12.6%         Expired in hospital       1.8%       1.6%       1.4%         Left against medical advice       0.5%       0.7%       0.7%         Other/Unknown       0.9%       0.9%       0.9%         Sex       Male       39.6%       40.7%       41.5%         Female       60.4%       59.3%       58.5%         Age       15.7%       16.3%       15.2%         1-4       0.5%       0.6%       0.5%         5-9       0.2%       0.2%       0.4%         10-14       0.4%       0.1%       0.2%         15-19       2.6%       2.6%       2.1%         20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%	Another short-term hospital	4.1%	3.1%	3.2%
Expired in hospital       1.8%       1.6%       1.4%         Left against medical advice       0.5%       0.7%       0.7%         Other/Unknown       0.9%       0.9%       0.9%         Sex       ***       ***       40.7%       41.5%         Female       60.4%       59.3%       58.5%         Age       ***       15.7%       16.3%       15.2%         1-4       0.5%       0.6%       0.5%         5-9       0.2%       0.2%       0.4%         10-14       0.4%       0.1%       0.2%         15-19       2.6%       2.6%       2.1%         20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%	Long-term care facility	12.7%	13.2%	14.5%
Left against medical advice         0.5%         0.7%         0.7%           Other/Unknown         0.9%         0.9%         0.9%           Sex         Male         39.6%         40.7%         41.5%           Female         60.4%         59.3%         58.5%           Age         15.7%         16.3%         15.2%           1-4         0.5%         0.6%         0.5%           5-9         0.2%         0.2%         0.4%           10-14         0.4%         0.1%         0.2%           15-19         2.6%         2.6%         2.1%           20-24         7.2%         6.3%         5.9%           25-34         10.4%         10.3%         9.4%           35-44         6.9%         6.4%         6.5%           45-54         10.1%         9.9%         9.3%           55-64         13.0%         12.2%         13.6%           65-74         13.0%         12.7%         13.8%		12.4%	12.6%	12.6%
Other/Unknown         0.9%         0.9%         0.9%           Sex         Male         39.6%         40.7%         41.5%           Female         60.4%         59.3%         58.5%           Age           <1         15.7%         16.3%         15.2%           1-4         0.5%         0.6%         0.5%           5-9         0.2%         0.2%         0.4%           10-14         0.4%         0.1%         0.2%           15-19         2.6%         2.6%         2.1%           20-24         7.2%         6.3%         5.9%           25-34         10.4%         10.3%         9.4%           35-44         6.9%         6.4%         6.5%           45-54         10.1%         9.9%         9.3%           55-64         13.0%         12.2%         13.6%           65-74         13.0%         12.7%         13.8%	Expired in hospital		1.6%	1.4%
Sex       Male       39.6%       40.7%       41.5%         Female       60.4%       59.3%       58.5%         Age         <1	Left against medical advice	0.5%	0.7%	0.7%
Male       39.6%       40.7%       41.5%         Female       60.4%       59.3%       58.5%         Age         <1	Other/Unknown	0.9%	0.9%	0.9%
Female         60.4%         59.3%         58.5%           Age           <1	Sex			
Age       15.7%       16.3%       15.2%         1-4       0.5%       0.6%       0.5%         5-9       0.2%       0.2%       0.4%         10-14       0.4%       0.1%       0.2%         15-19       2.6%       2.6%       2.1%         20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%	Male			41.5%
<1	Female	60.4%	59.3%	58.5%
1-4       0.5%       0.6%       0.5%         5-9       0.2%       0.2%       0.4%         10-14       0.4%       0.1%       0.2%         15-19       2.6%       2.6%       2.1%         20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%	_			
5-9       0.2%       0.2%       0.4%         10-14       0.4%       0.1%       0.2%         15-19       2.6%       2.6%       2.1%         20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%				
10-14       0.4%       0.1%       0.2%         15-19       2.6%       2.6%       2.1%         20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%			0.6%	0.5%
15-19       2.6%       2.6%       2.1%         20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%				
20-24       7.2%       6.3%       5.9%         25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%				
25-34       10.4%       10.3%       9.4%         35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%				
35-44       6.9%       6.4%       6.5%         45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%		7.2%		5.9%
45-54       10.1%       9.9%       9.3%         55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%				
55-64       13.0%       12.2%       13.6%         65-74       13.0%       12.7%       13.8%		6.9%	6.4%	6.5%
<i>65-74</i> 13.0% 12.7% 13.8%	<i>45-54</i>	10.1%	9.9%	9.3%
	<i>55-64</i>	13.0%		13.6%
<i>75+</i> 20.0% 22.3% 23.1%				
	75+	20.0%	22.3%	23.1%

#### Notes:

<sup>1.</sup> Total all-listed procedures represents the total number of procedures performed; up to six procedures may be recorded per discharge, as a result the total number of all-listed procedures can exceed the total number of discharges.

<sup>2.</sup> Procedures were classified using AHRQ's HCUP procedure class software. See AHRQ's website for more information:

<sup>3.</sup> Percentages may not sum to 100 due to rounding.

#### St. Francis Hospital

# 2011 Discharge Distribution

2011 0100	nuigo D	ottibation
Zip / State	Number	<u>%</u>
19805	1,876	26.0%
19802	682	9.4%
19801	593	8.2%
19720	574	7.9%
19806	377	5.2%
19803	310	4.3%
19808	304	4.2%
19810	301	4.2%
19703	295	4.1%
19804	256	3.5%
19809	247	3.4%
19702	202	2.8%
PA	167	2.3%
19711	132	1.8%
19701	127	1.8%
Undisclosed*	117	1.6%
19713	116	1.6%
19707	94	1.3%
Other State	91	1.3%
19709	88	1.2%
19807	76	1.1%
MD	57	0.8%
NJ	55	0.8%
19977	29	0.4%
19904	21	0.3%
19901	17	0.2%
19734	12	0.2%
19706	10	0.1%
Total	7,226	100.0%

<sup>\*</sup>Zip codes with less than 10 cases

#### **Utilization Characteristics**

Ounzauo	2009	2010	2011
Aggregate charges	\$149,236,157	\$174,216,422	\$161,634,644
Average charges	\$22,577	\$22,905	\$22,368
Average charge per day	\$6,632	\$7,217	\$7,174
Number of Discharges	6,610	7,606	7,226
Total All-listed Procedures <sup>1</sup>	7,550	8,241	7,275
Non-operating room procedures <sup>2</sup>	4,880	5,397	4,789
Valid operating room procedures 2	2,670	2,844	2,486
Average Lenth of Stay	4.3	4.2	3.9
Primary Payer Distribution	<del></del>	<del></del>	
Medicare	41.8%	39.8%	37.2%
Medicaid	25.3%	27.5%	20.3%
Private Insurance	28.2%	27.6%	37.4%
Uninsured	3.2%	2.7%	3.1%
Other	1.6%	2.3%	1.9%
Admission Source Distribution	•	•	
Routine	39.2%	38.2%	34.2%
Other short-term hospital	1.5%	3.4%	3.0%
Long-term care facility	0.5%	0.6%	0.3%
ER	58.7%	57.1%	61.8%
Other	.1%	.8%	.7%
Discharge Status Distribution			
Routine - home	64.5%	64.3%	64.5%
Another short-term hospital	1.6%	1.7%	1.3%
Long-term care facility	10.8%	12.0%	12.1%
Home health care	17.6%	15.7%	13.8%
Expired in hospital	1.7%	3.8%	5.4%
Left against medical advice	1.4%	1.6%	1.7%
Other/Unknown	2.4%	0.9%	1.2%
Sex			
Male	37.6%	38.0%	38.8%
Female	62.4%	62.0%	61.2%
Age	10.00/	11.00/	10.00/
<1 1-4	12.0% 0.0%	11.2%	10.0%
1-4 5-9		0.0%	0.0%
5-9 10-14	0.0%	0.0%	0.0%
10-14 15-19	0.0% 1.9%	0.1% 1.6%	0.0% 1.5%
15-19 20-24	4.1%	4.2%	4.3%
20-24 25-34	10.7%	4.2% 10.4%	
25-34 35-44	10.7% 9.4%	10.4% 9.4%	10.8% 10.7%
<i>35-44</i> <i>45-54</i>	13.0%	13.2%	10.7%
45-54 55-64	13.0%	13.2% 14.0%	14.4% 14.1%
55-64 65-74	13.4%	13.0%	14.1%
05-74 75+	13.4% 22.4%	22.9%	22.3%
7.07	22.4%	22.9%	22.3%

#### Notes:

Total all-listed procedures represents the total number of procedures performed; up to six procedures may be recorded per discharge, as a result the total number of all-listed procedures can exceed the total number of discharges.

<sup>2.</sup> Procedures were classified using AHRQ's HCUP procedure class software. See AHRQ's website for more information: <a href="http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure.jsp.">http://www.hcup-us.ahrq.gov/toolssoftware/procedure.jsp.</a>

<sup>3.</sup> Percentages may not sum to 100 due to rounding.

<sup>4.</sup> St. Francis hospital does not operate a pediatric service. ER patients are admitted at Al Dupont.

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

### Select Specialty Hospital - Wilmington

## 2011 Discharge Distribution

Utilization	Characteristics
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	·· a · g · -	
Zip / State	Number	<u>%</u>
Undisclosed*	110	32.3%
MD	32	9.4%
19805	22	6.5%
19720	21	6.2%
19802	20	5.9%
NJ	19	5.6%
19709	16	4.7%
19713	14	4.1%
19810	14	4.1%
19702	13	3.8%
19808	13	3.8%
19804	12	3.5%
19711	11	3.2%
19803	11	3.2%
PA	10	2.9%
Other State	3	0.9%
Total	341	100.0%

<sup>\*</sup>Zip codes with less than 10 cases

Utilization	n Characteris	stics	
	2009	2010	2011
Aggregate charges	\$24,264,848	\$30,161,973	\$35,663,288
Average charges	\$90,204	\$100,540	\$104,584
Average charge per day	\$3,402	\$3,466	\$3,746
Number of Discharges	269	300	341
Total All-listed Procedures <sup>1</sup>	532	578	630
Non-operating room procedures <sup>2</sup>	472	505	579
Valid operating room procedures 2	60	73	51
Average Lenth of Stay	26.3	29.4	28.0
Primary Payer Distribution			
Medicare	83.3%	83.7%	80.1%
Medicaid	0.7%	1.0%	0.6%
Private Insurance	14.9%	13.7%	18.5%
Uninsured	0.0%	0.0%	0.0%
Other	1.1%	1.7%	0.9%
Admission Source Distribution			
Routine	0.4%	0.7%	0.3%
Other short-term hospital	99.6%	98.0%	98.8%
Long-term care facility	0.0%	1.3%	0.9%
ER	0.0%	0.0%	0.0%
Other	0.0%	0.0%	0.0%
Discharge Status Distribution	•	•	
Routine - home	7.1%	5.3%	5.6%
Another short-term hospital	10.8%	11.3%	11.7%
Long-term care facility	40.9%	49.7%	49.0%
Home health care	22.7%	24.0%	24.3%
Expired in hospital	8.9%	9.0%	8.8%
Left against medical advice	0.7%	0.7%	0.6%
Other/Unknown	8.9%	0.0%	0.0%
Sex			
Male	47.2%	44.7%	47.5%
Female	52.4%	55.3%	52.5%
Unknown	0.4%	0.0%	0.0%
Age			
<1	0.0%	0.0%	0.0%
1-4	0.0%	0.0%	0.0%
<i>5-9</i>	0.0%	0.0%	0.0%
<i>10-14</i>	0.0%	0.0%	0.0%
<i>15-19</i>	0.0%	0.0%	0.6%
20-24	0.7%	0.7%	0.3%
<i>25-34</i>	3.0%	2.7%	0.9%
<i>35-44</i>	4.1%	5.7%	3.5%
<i>45-54</i>	11.5%	10.7%	12.9%
<i>55-64</i>	14.5%	19.7%	18.8%
<i>65-74</i>	29.7%	27.7%	26.7%
<i>75+</i>	36.4%	33.0%	36.4%
Notes:			

#### Notes:

<sup>1.</sup> Total all-listed procedures represents the total number of procedures performed; up to six procedures may be recorded per discharge, as a result the total number of all-listed procedures can exceed the total number of discharges.

<sup>2.</sup> Procedures were classified using AHRQ's HCUP procedure class software. See AHRQ's website for more information: <a href="http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/procedure/

<sup>3.</sup> Percentages may not sum to 100 due to rounding.

#### Clinical classification system:

Diagnoses and procedures were reported using the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM). These codes were then aggregated into broader diagnostic categories according to the Clinical Classification System (CCS) developed by the Agency of Healthcare Research and Quality (AHRQ). The CCS diagnoses are used to categorize clinically similar diagnoses for ease in presentation and interpretation of hospital discharge data. A complete listing of CCS diagnostic codes and selected corresponding measures are presented below.

# A1. Number and Percent of Discharges, Mean Length of Stay, Mean Charges, Percent Expired, and Percent Admitted from the ED by Principal Diagnosis, Delaware Hospitals, 2011

linical Classific	cations Software Categories and Chapter Headings	Number of Discharges	Percent of Discharges	Length of Stay	Mean Total Charges	Percent Expired	Percent Admitted from ED
nfections and	Tuberculosis	9	0.3%	28.2	\$83,945	0.0%	44.4
parasitic	Septicemia (except in labor)	2,716	76.8%	8.6	\$45,099	16.5%	93.2
diseases	Bacterial infection; unspecified site	25	0.7%	6.3	\$37,171	4.0%	84.0
	Mycoses	90	2.5%	8.9	\$42,132	5.6%	81.1
	HIV infection	161	4.6%	7.9	\$32,853	5.0%	94.4
	Hepatitis	84	2.4%	4.3	\$21,125	3.6%	88.
	Viral infection	320	9.0%	3.5	\$16,050	0.0%	80.
	Other infections; including parasitic	111	3.1%	4.9	\$22,746	0.9%	83.
	Sexually transmitted infections (not HIV or hepatitis)	19	0.5%	6.4	\$23,746	10.5%	47.
	Immunizations and screening for infectious disease	3	0.1%	4.3	\$19,675	0.0%	66.
	Total	3,538	100.0%	7.9	\$40,475	13.3%	90.9
	Cancer of head and neck	85	2.0%	7.6	\$37,588	10.6%	34.
Neoplasms	Cancer of esophagus	39	0.9%	10.8	\$56,596	12.8%	64.
	Cancer of stomach	63	1.5%	8.9	\$48,143	14.3%	50.
	Cancer of colon	253	6.0%	8.6	\$48,753	4.3%	33
	Cancer of rectum and anus	120	2.8%	8.1	\$42,015	3.3%	20
	Cancer of liver and intrahepatic bile duct	50	1.2%	8.3	\$48,291	14.0%	68
	Cancer of pancreas	110	2.6%	7.3	\$36,897	17.3%	68
	Cancer of other GI organs; peritoneum	73	1.7%	8.2	\$46,740	12.3%	47
	Cancer of bronchus; lung	375	8.9%	6.3	\$36,526	13.3%	51
	Cancer, other respiratory and intrathoracic	5	0.1%	8.8	\$31,225	0.0%	40
	Cancer of bone and connective tissue	33	0.8%	7.6	\$52,108	0.0%	27
	Melanomas of skin	14	0.3%	1.1	\$11,396	0.0%	0
	Other non-epithelial cancer of skin	23	0.5%	3.5	\$19,591	0.0%	8
	Cancer of breast	108	2.5%	2.9	\$23,153	7.4%	15
	Cancer of uterus	140	3.3%	3.6	\$25,857	0.7%	10
	Cancer of cervix	40	0.9%	5.9	\$27,948	5.0%	30
	Cancer of ovary	68	1.6%	8.6	\$42,370	1.5%	23
	Cancer of other female genital organs	18	0.4%	3.5	\$18,097	0.0%	22
	Cancer of prostate	99	2.3%	2.9	\$26,233	4.0%	13
	Cancer of testis	1	0.0%	2.0	\$17,928	0.0%	0
	Cancer of other male genital organs	0	0.0%	N/A	N/A	N/A	١
	Cancer of bladder	64	1.5%	9.9	\$51,095	6.3%	40
	Cancer of kidney and renal pelvis	115	2.7%	5.5	\$33,849	3.5%	13
	Cancer of other urinary organs	11	0.3%	6.1	\$28,903	9.1%	27
	Cancer of brain and nervous system	100	2.4%	7.9	\$50,652	6.0%	65
	Cancer of thyroid	33	0.8%	1.3	\$12,923	0.0%	3
	Hodgkin's disease	14	0.3%	8.4	\$40,212	0.0%	42

Clinical Classific	cations Software Categories and Chapter Headings	Number of Discharges	Percent of Discharges	Length of Stay	Mean Total Charges	Percent Expired	Perce Admitt from E
	Non-Hodgkin's lymphoma	106	2.5%	10.7	\$62,565	6.6%	56
	Leukemias	106	2.5%	21.8	\$225,979	21.7%	46
	Multiple myeloma	59	1.4%	11.0	\$62,644	18.6%	40
	Cancer, other and unspecified primary	16	0.4%	6.7	\$39,386	0.0%	37
	Secondary malignancies	573	13.5%	6.5	\$31,707	16.2%	62
	Malignant neoplasm without specification of site	13	0.3%	7.3	\$47,370	15.4%	53
	Neoplasms of unspecified nature or uncertain behavior						
	•	110	2.6%	4.9	\$30,278	0.0%	40
	Maintenance chemotherapy; radiotherapy	356	8.4%	6.7	\$42,641	1.7%	C
	Benign neoplasm of uterus	413	9.7%	2.1	\$17,463	0.0%	2
	Other and unspecified benign neoplasm	431	10.2%	4.2	\$28,542	0.7%	21
	Total	4,237	100.0%	6.4	\$40,169	7.1%	32
Endocrine,	Thyroid disorders	103	2.4%	3.2	\$17,648	1.0%	49
nutritional &	Diabetes mellitus without complication	103	2.4%	2.6	\$11,050	0.0%	89
metabolic	Diabetes mellitus with complications	1,872	43.7%	5.1	\$21,977	1.2%	83
diseases, &	Other endocrine disorders	120	2.8%	4.8	\$20,087	5.8%	80
immunity	Nutritional deficiencies	24	0.6%	8.8	\$28,042	8.3%	50
disorders	Disorders of lipid metabolism	1	0.0%	8.0	\$47,286	0.0%	100
		00			. ,		
	Gout and other crystal arthropathies	86	2.0%	4.3	\$13,617	0.0%	93
	Fluid and electrolyte disorders	1,148	26.8%	3.6	\$15,064	2.0%	80
	Cystic fibrosis	46	1.1%	11.2	\$89,796	0.0%	19
	Immunity disorders	4	0.1%	13.5	\$56,501	0.0%	2!
	Other nutritional; endocrine; and metabolic disorders	778	18.2%	3.0	\$24,977	1.0%	18
	Total	4,285	100.0%	4.3	\$20,882	1.5%	70
isease of the	Deficiency and other anemia	546	41.9%	4.1	\$22,064	2.6%	8
blood and	Acute posthemorrhagic anemia	96	7.4%	3.7	\$18,440	6.3%	9
lood forming	Sickle cell anemia	334	25.6%	4.6	\$17,348	0.0%	8
organs	Coagulation and hemorrhagic disorders	135	10.4%	4.2	\$40,427	2.2%	4
_	Diseases of white blood cells	179	13.7%	6.4	\$38,667	2.8%	5
Ī							
	Other hematologic conditions	14	1.1%	5.9	\$28,835	14.3%	7
	Total	1,304	100.0%	4.6	\$24,842	2.3%	75
Mental	Adjustment disorders	7	0.3%	3.1	\$9,838	0.0%	100
disorders	Anxiety disorders	46	1.7%	2.4	\$12,882	0.0%	9
	Attention-deficit	9	0.3%	35.3	\$163,794	0.0%	7
	Delirium	189	7.2%	8.5	\$20,723	5.3%	9
	Developmental disorders	6	0.2%	2.5	\$11,014	0.0%	100
	Disorders usually diagnosed in infancy	2	0.1%	2.0	\$15,063	0.0%	50
	Impulse control disorders	1	0.0%	7.0	\$8,788	0.0%	10
	Mood disorders	942	35.7%	6.1	\$10,119	1.1%	82
	Personality disorders	2	0.1%	8.0	\$29,417	0.0%	100
	Schizophrenia and other psychotic disorders	207	7.8%	7.4	\$13,726	1.0%	89
	Alcohol-related disorders	483					95
			18.3%	4.9	\$18,404	1.9%	
	Substance-related disorders	365	13.8%	4.6	\$19,861	3.3%	84
	Screening and history of mental health and substance abuse codes	211	8.0%	6.4	\$27,450	4.3%	
	Miscellaneous disorders	170	6.4%	3.1	\$11,788	0.6%	52
	Total	2,640	100.0%	5.8		2.0%	85
Diseases of	Meningitis (except that caused by tuberculosis or STD)	124	4.0%	4.8	\$24,652	0.8%	90
the nervous	Encephalitis (except that caused by tuberculosis or STD)	29	0.9%	11.4	\$68,743	3.4%	82
system and	Other CNS infection and poliomyelitis	47	1.5%	13.9	\$70,806	6.4%	74
ense organs	Parkinson's disease	26	0.8%	4.7	\$14,982	3.8%	96
	Multiple sclerosis	102	3.3%	4.0	\$18,350	1.0%	74
	Other hereditary and degenerative nervous system	136	4.4%	5.7	\$35,312	2.2%	5!
	Paralysis						
	•	176	5.7%	4.2	\$45,462	0.6%	10
	Epilepsy; convulsions	831	26.9%	3.7	\$18,566	1.4%	8
	Headache; including migraine	281	9.1%	2.6	\$12,725	0.0%	8
	Coma; stupor; and brain damage	46	1.5%	5.8	\$36,190	32.6%	8

## APPENDIX A

							_
Clinical Classific	ations Software Categories and Chapter Headings	Number of Discharges	Percent of Discharges	Length of Stay	Mean Total Charges	Percent Expired	Percent Admitted from ED
	Cataract	0	0.0%	N/A	N/A	N/A	N/A
	Retinal detachments; defects; vascular occlusion; and retinopathy	10	0.3%	3.2	\$17,361	0.0%	100.0%
	Glaucoma	3	0.1%	5.3	\$20,971	0.0%	0.0%
-	Blindness and vision defects	18	0.6%	2.7	\$13,984	0.0%	100.0%
	Inflammation; infection of eye (except that caused by tuberculosis or sexually transmitted disease)	59	1.9%	2.6	\$12,068	0.0%	83.1%
	Other eye disorders	21	0.7%	5.9	\$28,901	0.0%	71.4%
	Otitis media and related conditions	60	1.9%	2.2	\$13,395	0.0%	51.7%
-	Conditions associated with dizziness or vertigo	192	6.2%	2.5	\$13,672	0.0%	97.4%
-	Other ear and sense organ disorders	44	1.4%	2.3	\$13,462	0.0%	52.3%
-	Other nervous system disorders	886	28.7%	5.0	\$26,404	2.7%	79.1%
-	Total	3,091	100.0%	4.3	\$23,725	2.0%	77.5%
	Heart valve disorders	324	2.0%	7.2	\$88,782	2.2%	28.7%
tne circulatory	Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or STD)	297	1.8%	9.1	\$75,320	4.4%	72.7%
system	Essential hypertension	197	1.2%	2.2	\$12,638	0.5%	93.4%
	Hypertension with complications and secondary hypertension	631	3.8%	5.1	\$26,575	1.6%	88.6%
	Acute myocardial infarction	1,865	11.4%	4.6	\$53,862	5.6%	86.3%
	Coronary atherosclerosis and other heart disease	1,489	9.1%	3.8	\$52,828	0.6%	52.7%
	Nonspecific chest pain	847	5.2%	2.0	\$14,550	0.6%	95.4%
	Pulmonary heart disease	617	3.8%	5.7	\$29,796	5.3%	89.3%
	Other and ill-defined heart disease	20	0.1%	3.7	\$28,828	0.0%	80.0%
	Conduction disorders	179	1.1%	3.6	\$45,431	1.7%	78.2%
	Cardiac dysrhythmias	1,944	11.8%	3.9	\$25,310	1.7%	84.6%
	Cardiac arrest and ventricular fibrillation	78	0.5%	5.6	\$61,016	60.3%	91.0%
	Congestive heart failure; nonhypertensive	2,798	17.0%	5.3	\$25,243	4.5%	91.6%
	Acute cerebrovascular disease	1,914	11.7%	6.6	\$35,264	10.9%	95.2%
	Occlusion or stenosis of precerebral arteries	387	2.4%	2.4	\$27,316	0.0%	18.1%
	Other and ill-defined cerebrovascular disease	114	0.7%	3.3	\$55,053	1.8%	40.4%
	Transient cerebral ischemia	571	3.5%	2.5	\$14,772	0.0%	97.4%
	Late effects of cerebrovascular disease	65	0.4%	5.4	\$21,455	4.6%	90.8%
	Peripheral and visceral atherosclerosis	536	3.3%	5.3	\$40,291	3.9%	41.2%
	Aortic; peripheral; and visceral artery aneurysms	265	1.6%	5.3	\$84,651	7.5%	34.7%
	Aortic and peripheral arterial embolism or thrombosis	97	0.6%	8.5	\$61,430	6.2%	52.6%
	Other circulatory disease	479	2.9%	4.1	\$20,701	2.7%	87.5%
	Phlebitis; thrombophlebitis and thromboembolism	534	3.3%	4.6	\$23,878	1.5%	75.8%
,	Varicose veins of lower extremity	9	0.1%	5.1	\$18,809	0.0%	55.6%
	Hemorrhoids	69	0.4%	3.2	\$15,052	1.4%	82.6%
	Other diseases of veins and lymphatics	93	0.6%	7.0	\$29,327	1.1%	64.5%
	Total	16,419	100.0%	4.7	\$35,586	4.1%	79.8%
Discases of	Pneumonia (except that caused by tuberculosis or STD)	3,475	30.9%	5.3	\$24,335	4.0%	90.9%
	Influenza	140			\$21,127	2.1%	85.0%
	Acute and chronic tonsillitis	198	1.8%	1.8	\$12,213	0.5%	33.8%
	Acute bronchitis	956		3.6	\$19,714	0.2%	82.9%
	Other upper respiratory infections	325	2.9%	2.8	\$15,656	0.6%	80.6%
	Chronic obstructive pulmonary disease and bronchiectasis	2,182	19.4%	4.4	\$18,286	2.6%	93.8%
	Asthma	1,244	11.1%	3.0	\$13,738	0.3%	87.8%
	Aspiration pneumonitis; food/vomitus	548	4.9%	8.4	\$38,094	17.5%	96.0%
	Pleurisy; pneumothorax; pulmonary collapse	357	3.2%	6.8	\$31,038	3.9%	76.5%
	Respiratory failure; insufficiency; arrest (adult)	1,320	11.7%	10.6	\$58,257	12.4%	80.5%
	Lung disease due to external agents	26	0.2%	6.1	\$31,804	3.8%	92.3%
	Other lower respiratory disease	309	2.7%	4.0	\$22,911	4.2%	76.4%
	Other upper respiratory disease	171	1.5%	5.0	\$20,544	1.8%	77.2%
	The separate						

Clinical Classific	cations Software Categories and Chapter Headings	Number of Discharges	Percent of Discharges	Length of Stay	Mean Total Charges	Percent Expired	Percent Admitted from ED
Diseases of	Intestinal infection	971	8.9%	5.2	\$20,093	3.2%	91.6%
the digestive	Disorders of teeth and jaw	76	0.7%	2.7	\$15,029	1.3%	50.0%
system	Diseases of mouth; excluding dental	71	0.6%	3.7	\$16,331	1.4%	73.2%
	Esophageal disorders	407	3.7%	4.0	\$22,308	0.5%	71.7%
	Gastroduodenal ulcer (except hemorrhage)	114	1.0%	5.5	\$30,424	3.5%	88.6%
	Gastritis and duodenitis	284	2.6%	4.2	\$17,950	1.1%	91.9%
	Other disorders of stomach and duodenum	258	2.4%	5.6	\$23,985	1.9%	82.9%
	Appendicitis and other appendiceal conditions	854	7.8%	3.1	\$21,868	0.0%	92.5%
	Abdominal hemia	726	6.6%	5.0	\$33,095	1.1%	35.4%
	Regional enteritis and ulcerative colitis	300	2.7%	5.2	\$21,665	0.3%	72.7%
	Intestinal obstruction without hemia	1,086	9.9%	6.4	\$28,617	3.0%	90.8%
	Diverticulosis and diverticulitis	931	8.5%	5.2	\$24,198	0.5%	74.2%
	Anal and rectal conditions	124	1.1%	5.0	\$24,883	4.0%	69.4%
	Peritonitis and intestinal abscess	97	0.9%	7.9	\$40,406	4.1%	73.2%
	Biliary tract disease	1,274	11.7%	3.7	\$23,608	0.9%	73.6%
	Other liver diseases	384	3.5%	5.6	\$27,631	8.3%	87.2%
	Pancreatic disorders (not diabetes)	839	7.7%	5.7	\$25,797	1.4%	91.8%
	Gastrointestinal hemorrhage	1,028	9.4%	4.8	\$24,893	4.8%	93.7%
	Noninfectious gastroenteritis	337	3.1%	3.6	\$14,480	0.3%	91.4%
	Other gastrointestinal disorders	764	7.0%	5.4	\$25,322	2.1%	60.2%
	Total	10,925	100.0%	4.9	\$24,495	2.1%	79.8%
Diseases of	Nephritis; nephrosis; renal sclerosis	54	1.0%	3.7	\$22,236	0.0%	57.4%
the	Acute and unspecified renal failure	1,714	32.0%	5.7	\$22,884	3.4%	90.8%
genitourinary	Chronic renal failure	44	0.8%	5.7	\$65,608	6.8%	40.9%
system	Urinary tract infections	1,745	32.6%	4.5	\$15,380	2.4%	93.4%
	Calculus of urinary tract	445	8.3%	2.5	\$16,020	0.2%	84.0%
	Other diseases of kidney and ureters	159	3.0%	3.2	\$21,491	1.3%	32.7%
	Other diseases of bladder and urethra	66	1.2%	6.3	\$35,960	1.5%	54.5%
	Genitourinary symptoms and ill-defined conditions	95	1.8%	5.4	\$18,399	3.2%	78.9%
	Hyperplasia of prostate	70	1.3%	3.1	\$19,845	1.4%	34.3%
	Inflammatory conditions of male genital organs	83	1.6%	4.5	\$16,457	0.0%	83.1%
	Other male genital disorders	28	0.5%	2.1	\$18,351	0.0%	75.0%
	Nonmalignant breast conditions	96	1.8%	1.9	\$11,595	0.0%	27.1%
	Inflammatory diseases of female pelvic organs	108	2.0%	2.9	\$15,237	0.0%	58.3%
	Endometriosis	69	1.3%	2.1	\$18,386	0.0%	11.6%
	Prolapse of female genital organs	175		1.7	\$19,070	0.0%	0.0%
	Menstrual disorders	132		2.1	\$18,097	0.0%	15.2%
	Ovarian cyst	126		2.5	\$15,750	0.0%	36.5%
	Menopausal disorders	24		2.8	\$20,527	0.0%	33.3%
	Female infertility	1	0.0%	10.0	\$31,902	0.0%	0.0%
	Other female genital disorders	115	2.1%	3.3	\$19,633	0.9%	27.8%
	Total	5,349	100.0%	4.3	\$19,182	2.1%	76.4%
Complications	Contraceptive and procreative management	0	0.0%	N/A	N/A	N/A	N/A
of pregnancy,	Spontaneous abortion	21	0.2%	5.6	\$27,223	0.0%	57.1%
childbirth, &	Induced abortion	17	0.1%	2.1	\$7,183	0.0%	35.3%
the puerperium	Post abortion complications	3	0.0%	1.3	\$4,431	0.0%	100.0%
	Ectopic pregnancy	24		1.4	\$13,675	0.0%	87.5%
	Other complications of pregnancy	1,224		2.5	\$8,359	0.1%	30.7%
	Hemorrhage during pregnancy; abruptio placenta; placenta previa	130		4.0	\$13,035	0.0%	24.6%
	Hypertension complicating pregnancy; childbirth and the puerperium	675	5.5%	3.4	\$11,156	0.0%	22.1%
	Early or threatened labor	462	3.8%	3.5	\$8,606	0.0%	27.7%
	Prolonged pregnancy	564	4.6%	2.6	\$7,876	0.0%	1.4%
	Diabetes or abnormal glucose tolerance complicating pregnancy; childbirth; or the puerperium	223	1.8%	3.1	\$8,829	0.0%	5.4%

Clinical Classific	cations Software Categories and Chapter Headings	Number of Discharges	Percent of Discharges	Length of Stay	Mean Total Charges	Percent Expired	Percent Admitted from ED
	Malposition; malpresentation	493	4.0%	3.3	\$11,992	0.0%	3.79
	Fetopelvic disproportion; obstruction	105	0.9%	2.6	\$10,088	0.0%	1.0
	Previous C-section	1,574	12.8%	2.7	\$11,471	0.0%	2.1
	Fetal distress and abnormal forces of labor	606	4.9%	3.2	\$10,938	0.0%	5.6
	Polyhydramnios and other problems of amniotic cavity	613	5.0%	3.9	\$10,288	0.0%	12.1
	Umbilical cord complication	493	4.0%	2.2	\$6,836	0.0%	5.7
	OB-related trauma to perineum and vulva	2,650	21.5%	2.2	\$6,786	0.0%	4.0
	Forceps delivery	55	0.4%	2.3	\$7,755	0.0%	0.0
	Other complications of birth; puerperium affecting management of mother	1,750	14.2%	3.4	\$11,486	0.1%	11.7
	Normal pregnancy and/ or delivery	623	5.1%	2.1	\$7,289	0.0%	5.0
	Total	12,305	100.0%	2.8	\$9,367	0.0%	10.4
Diseases of	Skin and subcutaneous tissue infections	1,968	87.4%	3.9	\$14,176	0.5%	83.0
the skin and	Other inflammatory condition of skin	40	1.8%	3.9	\$15,592	0.0%	90.0
subcutaneous	Chronic ulcer of skin	191	8.5%	13.0	\$40,618	2.6%	42.9
tissue	Other skin disorders	52	2.3%	5.1	\$21,353	0.0%	44.2
	Total	2,251	100.0%	4.7	\$16,610	0.7%	78.8
Diseases of the musculo-	Infective arthritis and osteomyelitis (except that caused by tuberculosis or STD)	273	3.9%		\$46,021	0.7%	57.9
skeletal system	Rheumatoid arthritis and related disease	46	0.7%	4.5	\$24,791	0.0%	65.2
and	Osteoarthritis	3,141	45.4%	2.9	\$33,254	0.0%	1.0
connective	Other non-traumatic joint disorders	136	2.0%	3.3	\$29,534	2.2%	51.5
tissue	Spondylosis; intervertebral disc disorders; other back	1,985	28.7%	3.0	\$39,815	0.2%	23.1
	Osteoporosis	5	0.1%	4.0	\$23,625	0.0%	20.0
	Pathological fracture	218	3.2%	5.5	\$29,905	3.7%	70.6
	Acquired foot deformities	50	0.7%	3.0	\$31,321	0.0%	6.0
	Other acquired deformities	271	3.9%	5.3	\$90,601	0.0%	2.6
	Systemic lupus erythematosus and connective tissue	60	0.9%	11.2	\$45,219	1.7%	70.0
	Other connective tissue disease	452		4.8	\$21,884	1.5%	75.7
	Other bone disease and musculoskeletal deformities	276			\$62,984	0.4%	15.2
	Total	6,913	100.0%		\$38,182	0.4%	19.4
Congenital	Cardiac and circulatory congenital anomalies	217	32.0%			3.2%	5.1
anomalies	Digestive congenital anomalies	99	14.6%		\$67,888	1.0%	42.4
	Genitourinary congenital anomalies	67	9.9%		\$41,313	0.0%	7.5
	Nervous system congenital anomalies	45			\$116,592	0.0%	4.4
	Other congenital anomalies	251			\$92,336	0.8%	5.6
	Total	679	100.0%	10.9		1.5%	10.9
	Short gestation; low birth weight; and fetal growth	65			\$84,563	4.6%	0.0
Certain conditions	Intrauterine hypoxia and birth asphyxia	4	0.6%		\$33,288	25.0%	25.0
originating in	Respiratory distress syndrome	37	6.0%			2.7%	2.7
the perinatal	Hemolytic jaundice and perinatal jaundice	144		1.7	\$5,193	0.0%	36.
period	Birth trauma	5	0.8%		\$30,894	0.0%	0.0
	Other perinatal conditions	361	58.6%		\$83,106	1.1%	48.2
	Total	616	100.0%	11.7	\$69,502	1.5%	37.0
Injury and	Joint disorders and dislocations; trauma-related	78		3.6	\$30,217	1.3%	42.3
poisoning	Fracture of neck of femur (hip)	802	9.0%		\$35,775	3.0%	96.8
,	Spinal cord injury	70	0.8%		\$75,399	11.4%	95.7
	Skull and face fractures	199	2.2%		\$22,674	0.0%	82.9
	Fracture of upper limb	391	4.4%		\$22,074	0.5%	85.2
	Fracture of lower limb	760			\$31,577	0.5%	90.
	Other fractures	767	8.6%			1.6%	90.
					\$26,104 \$18,842		92.2 81.7
	Sprains and strains	82	0.9%		\$18,842	1.2%	
	Intracranial injury	795	8.9%	6.1	\$32,548	7.5%	96.

## APPENDIX A

Clinical Classif	ications Software Categories and Chapter Headings	Number of Discharges	Percent of Discharges	Length of Stay	Mean Total Charges	Percent Expired	Percent Admitted from ED
	Crushing injury or internal injury	329	3.7%	6.4	\$43,437	4.0%	94.8%
	Open wounds of head; neck; and trunk	74	0.8%	4.9	\$32,584	4.1%	95.9%
	Open wounds of extremities	96	1.1%	3.5	\$23,104	0.0%	87.5%
	Complication of device; implant or graft	1,824	20.5%	5.9	\$41,521	2.6%	48.2%
	Complications of surgical procedures or medical care	1,344	15.1%	5.9	\$27,566	1.5%	62.3%
	Superficial injury; contusion	152	1.7%	3.9	\$15,180	0.0%	94.1%
	Bums	18	0.2%	3.4	\$14,530	5.6%	83.3%
	Poisoning by psychotropic agents	271	3.0%	4.3	\$20,688	1.1%	92.3%
	Poisoning by other medications and drugs	512	5.8%	3.5	\$17,698	1.8%	90.6%
	Poisoning by nonmedicinal substances	36	0.4%	3.1	\$14,792	0.0%	94.4%
	Other injuries and conditions due to external causes	290	3.3%	3.7	\$21,713	4.1%	90.3%
	Total	8,890	100.0%	5.2	\$31,222	2.5%	78.2%
Liveborn	Liveborn	11,388	100.0%	3.5	\$7,428	0.5%	0.0%
	Total	11,388	100.0%	3.5	\$7,428	0.5%	0.0%
Other	Syncope	538	14.2%	2.6	\$15,119	0.7%	95.9%
conditions	Fever of unknown origin	157	4.1%	3.0	\$13,764	0.0%	82.2%
	Lymphadenitis	81	2.1%	2.8	\$14,797	0.0%	76.5%
	Gangrene	95	2.5%	11.3	\$58,243	3.2%	44.2%
	Shock	9	0.2%	4.7	\$30,653	22.2%	88.9%
	Nausea and vomiting	65	1.7%	3.0	\$11,458	1.5%	75.4%
	Abdominal pain	329	8.7%	3.2	\$13,130	0.3%	88.8%
	Malaise and fatigue	40	1.1%	3.1	\$15,898	0.0%	92.5%
	Allergic reactions	87	2.3%	3.1	\$12,947	0.0%	92.0%
	Rehabilitation care; fitting of prostheses; and adjustment of devices	1,575	41.5%	12.6	\$28,817	0.4%	1.1%
	Administrative/ social admission	4	0.1%	10.5	\$17,562	0.0%	75.0%
	Medical examination/ evaluation	7	0.2%	3.3	\$9,771	0.0%	28.6%
	Other aftercare	473	12.5%	6.1	\$3,399	62.4%	3.0%
	Other screening for suspected conditions (not mental disorders or infectious disease)	16	0.4%	1.9	\$8,967	0.0%	68.8%
	Residual codes; unclassified	317	8.4%	3.7	\$19,422	2.5%	70.3%
	Total	3,793	100.0%	7.6	\$20,449	8.4%	39.2%
Total All CCS I	Diagnostic Codes	109,874	100.0%	4.8	\$25,370	2.9%	56.5%

### Clinical classification system for Ecodes:

Ecodes are supplementary classifications of external causes of injury and poisoning. They provide additional information regarding the nature of the condition, or to allow more detailed analysis of the external cause of the diagnosis. Ecodes were coded according to the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM). These codes were then aggregated into broader diagnostic categories using the Clinical Classification System (CCS) developed by the Agency of Healthcare Research and Quality (AHRQ). The CCS classification system for Ecodes is used to categorize clinically similar diagnoses for ease in presentation and interpretation of hospital discharge data. A complete listing of CCS Ecodes and selected corresponding measures are presented below.

B1. Number and Percent of Discharges, Mean Length of Stay, Mean Charges, Percent Expired, and Percent Admitted from the ED by Ecode, Delaware Hospitals, 2011

Clinical Classifications Software Categories for Ecodes	Number of Discharges	Percent of Discharges	Mean LOS	Mean Total Charges	Percent Expired	Percent Admitted from ED
E Codes: Cut/pierce	159	1.5%	4.1	\$20,074	0.6	91.8
E Codes: Drowning/submersion	16	0.1%	6.9	\$49,975	25.0	93.8
E Codes: Fall	3,929	36.7%	5.5	\$27,917	3.3	93.6
E Codes: Fire/burn	39	0.4%	4.7	\$19,880	5.1	82.1
E Codes: Firearms	101	0.9%	9.8	\$60,563	7.9	92.1
E Codes: Machinery	36	0.3%	4.4	\$33,539	0.0	91.7
E Codes: Motor vehicle traffic (MVT)	945	8.8%	6.2	\$42,151	3.2	95.6
E Codes: Pedal cyclist; not MVT	64	0.6%	3.3	\$20,559	0.0	87.5
E Codes: Pedestrian; not MVT	8	0.1%	10.3	\$69,968	0.0	87.5
E Codes: Transport; not MVT	135	1.3%	3.9	\$25,930	0.7	91.1
E Codes: Natural/environment	212	2.0%	4.1	\$20,308	0.9	90.6
E Codes: Overexertion	113	1.1%	4.0	\$23,218	0.9	90.3
E Codes: Poisoning	757	7.1%	3.6	\$18,829	1.5	90.0
E Codes: Struck by; against	295	2.8%	3.8	\$22,157	2.0	85.1
E Codes: Suffocation	78	0.7%	9.3	\$55,668	16.7	83.3
E Codes: Adverse effects of medical care	1,464	13.7%	13.1	\$103,914	2.8	38.7
E Codes: Adverse effects of medical drugs	1,330	12.4%	7.3	\$45,142	1.9	75.7
E Codes: Other specified and classifiable	387	3.6%	9.1	\$39,789	3.1	51.9
E Codes: Other specified; NEC	183	1.7%	9.3	\$40,696	1.6	63.9
E Codes: Unspecified	441	4.1%	6.3	\$36,170	4.3	76.6
E Codes: Place of occurrence	22	0.2%	4.4	\$40,027	0.0	81.8
Total	10,714	100.0%	6.9	\$42,084	2.9	80.5

# C1. Number of All-listed Procedures Performed during the Inpatient Stay, by Procedure and Sex of Patient, Delaware Hospitals, 2011

Single level Co	CS Procedure Categories and Chapter Headings	Male	Female	Tota
Operations	Incision and excision of CNS	213	165	3
on the	Insertion; replacement; or removal of extracranial ventricular shunt	75	80	1
nervous	Laminectomy; excision intervertebral disc	812	822	1,6
system	Diagnostic spinal tap	535	520	1,0
Operations on the endocrine system  Operations on the endocrine system  Operations on the ear  Operations on the ear  Operations on the nose, mouth, and pharynx  Operations on the respiratory system	Insertion of catheter or spinal stimulator and injection into spinal canal	110	88	1
	Decompression peripheral nerve	21	27	
	Other diagnostic nervous system procedures	20	31	
	Other non-OR or closed therapeutic nervous system procedures	49	77	
	Other OR therapeutic nervous system procedures	307	253	í
	Total		2,063	4,2
perations on	Thyroidectomy; partial or complete	22	74	
he endocrine	insertions on the insertion, replacement, or removal of extracranial ventricular shunt Laminectomy; excision intervertebral disc laminectomy; excision intervertebral disc laminectomy; excision intervertebral disc laminectomy; excision intervertebral disc laminectomy; partial or catheter or spinal stimulator and injection into spinal canal Decompression peripheral nerve laminectomy; partial or complete laminectomy; partial or complete laminectorine laminectorin	12	20	
		46	58	
	·	80	152	:
			1	
Operations	·		2	
on the eye	·		1	
	· · · · · · · · · · · · · · · · · · ·		1	
			1	
Operations	,			
			7	
	·		4	
	· ·			
				•
Operations			0	
-			71	
Operations on the ear Operations			2	
			20	
	·		22	
			115	
•	· · · · · · · · · · · · · · · · · · ·		41	
on the nose,	·		18	
	•		124	- 2
pharynx		108	64	
Operations on the endocrine system  Operations on the eye  Operations on the ear  Operations on the nose, mouth, and pharynx  Operations on the respiratory system			20	
	Other non-OR therapeutic procedures on nose; mouth and pharynx	87	68	
	Other OR therapeutic procedures on nose; mouth and pharynx	190	113	
		652	448	1,
Operations	Tracheostomy; temporary and permanent	169	132	;
on the	Tracheoscopy and laryngoscopy with biopsy	139	113	2
respiratory	Lobectomy or pneumonectomy	109	115	2
system	Diagnostic bronchoscopy and biopsy of bronchus	500	387	8
	Other diagnostic procedures on lung and bronchus	17	22	
	Incision of pleura; thoracentesis; chest drainage	754	515	1,2
	Other diagnostic procedures of respiratory tract and mediastinum		53	
			104	- 2
			95	
		20   3   49   7   307   25   2,142   2,063   22   7   12   2   2   46   5   5   5   15   2   2   2   2   2   2   2   2   2	1,536	3,6
			150	(
perations on	· · · · · · · · · · · · · · · · · · ·			1,2
	Percutaneous transluminal coronary angioplasty (PTCA)		636	1,8
ardiovascular	Coronary thrombolysis		030	1,0
system	Diagnostic cardiac catheterization; coronary arteriography		-	Ω.
				9,4
	Insertion; revision; replacement; removal of cardiac pacemaker or			1,2
	Other OR heart procedures	392	298	(
	Extracorporeal circulation auxiliary to open heart procedures	626	334	9

Single level CO	CS Procedure Categories and Chapter Headings	Male	Female	Total
	Endarterectomy; vessel of head and neck	192	119	31
	Aortic resection; replacement or anastomosis	119	63	182
	Varicose vein stripping; lower limb	0	1	
	Other vascular catheterization; not heart	3,217	3,362	6,579
	Peripheral vascular bypass	148	98	24
	Other vascular bypass and shunt; not heart	31	17	4
	Creation; revision and removal of arteriovenous fistula or vessel-to-vessel cannula for dialysis	52	53	10
	Hemodialysis	1,238	1,087	2,32
	Other OR procedures on vessels of head and neck	146	139	28
	Embolectomy and endarterectomy of lower limbs	72	75	14
	Other OR procedures on vessels other than head and neck	3,246	2,136	5,38
	Other diagnostic cardiovascular procedures	157	113	27
	Other non-OR therapeutic cardiovascular procedures	957	606	
	Total			1,56
		19,437	13,844	33,28
Operations	Bone marrow transplant	28	19	4
•	Bone marrow biopsy	122	97	21
	Procedures on spleen	30	41	7
system	Other therapeutic procedures; hemic and lymphatic system	300	478	77
	Total	480	635	1,11
Operations	Injection or ligation of esophageal varices	2	0	
on the	Esophageal dilatation	33	27	6
digestive	Upper gastrointestinal endoscopy; biopsy	1,485	1,782	3,26
system	Gastrostomy; temporary and permanent	280	186	46
·	Colostomy; temporary and permanent	80	75	15
	lleostomy and other enterostomy	63	53	11
	Gastrectomy; partial and total	86	171	25
	Small bowel resection	153	180	33
	Colonoscopy and biopsy	559	711	1,27
	Proctoscopy and anorectal biopsy	94	101	19
	Colorectal resection	_		
		508	544	1,05
	Local excision of large intestine lesion (not endoscopic)	2	6	
	Appendectomy	527	471	99
	Hemorrhoid procedures	14	15	2
	Endoscopic retrograde cannulation of pancreas (ERCP)	32	29	6
	Biopsy of liver	99	111	21
	Cholecystectomy and common duct exploration	436	756	1,19
	Inguinal and femoral hernia repair	104	27	13
	Other hernia repair	347	656	1,00
	Laparoscopy (Gl only)	45	61	10
	Abdominal paracentesis	532	395	92
	Exploratory laparotomy	34	24	5
	Excision; lysis peritoneal adhesions	278	711	98
	Peritoneal dialysis	54	68	12
	Other bowel diagnostic procedures	18	35	5
	Other non-OR upper GI therapeutic procedures	343	270	61
	Other OR upper GI therapeutic procedures	244	475	71
	Other non-OR lower GI therapeutic procedures	305	261	56
	Other OR lower GI therapeutic procedures			97
		500	474	
	Other gastrointestinal diagnostic procedures	110	118	22
	Other non-OR gastrointestinal therapeutic procedures	317	473	79
	Other OR gastrointestinal therapeutic procedures	335	443	77
	Total	8,019	9,709	17,72
Operations	Endoscopy and endoscopic biopsy of the urinary tract	175	375	55
Operations	Transurethral excision; drainage; or removal urinary obstruction	241	164	40
on the urinary	Ureteral catheterization	315	462	77
system	Nephrotomy and nephrostomy	58	75	133

Single level CC	S Procedure Categories and Chapter Headings	Male	Female	Total
	Nephrectomy; partial or complete	104	87	191
	Kidney transplant	23	13	36
	Genitourinary incontinence procedures	1	86	87
	Extracorporeal lithotripsy; urinary	11	4	15
	Indwelling catheter	114	60	174
	Procedures on the urethra	40	9	49
	Other diagnostic procedures of urinary tract	34	32	66
	Other non-OR therapeutic procedures of urinary tract	89	179	268
	Other OR therapeutic procedures of urinary tract	155	218	373
	Total	1,360	1,764	3,124
	Transurethral resection of prostate (TURP)	67	, 0	67
Operations	Open prostatectomy	86	0	86
on the male	Circumcision	4,640	0	4,640
genital organs	Diagnostic procedures; male genital	13	0	13
	Other non-OR therapeutic procedures; male genital	54	0	54
	Other OR therapeutic procedures; male genital	84	0	84
	Total	4,944	0	4,944
	Oophorectomy; unilateral and bilateral	4,944	739	739
Operations	Other operations on ovary	0	159	159
on the female	Ligation or occlusion of fallopian tubes	0	797	797
genital organs	Other operations on fallopian tubes	-		
	·	0	73	73
	Hysterectomy; abdominal and vaginal	0	921	921
	Other excision of cervix and uterus	0	104	104
	Abortion (termination of pregnancy)	0	6	6
	Dilatation and curettage (D&C); aspiration after delivery or abortion	0	60	60
	Diagnostic dilatation and curettage (D&C)	0	25	25
	Repair of cystocele and rectocele; obliteration of vaginal vault	0	139	139
	Other diagnostic procedures; female organs	0	67	67
	Other non-OR therapeutic procedures; female organs	0	35	35
	Other OR therapeutic procedures; female organs	0		331
	Total	0	3,456	3,456
	Removal of ectopic pregnancy	0	17	17
Obstetrical	Episiotomy	0	315	315
procedures	Cesarean section	0	3,691	3,691
	Forceps; vacuum; and breech delivery	0	679	679
	Artificial rupture of membranes to assist delivery	0	2,945	2,945
	Other procedures to assist delivery	0	9,937	9,937
	Diagnostic amniocentesis	0	8	8
	Fetal monitoring	0	6,135	6,135
	Repair of current obstetric laceration	0	4,012	4,012
	Other therapeutic obstetrical procedures	0	232	232
	Total	0	27,971	27,971
	Partial excision bone	501	420	921
Operations on	Bunionectomy or repair of toe deformities	16	14	30
the	Treatment; facial fracture or dislocation	77	33	110
musculoskeletal	Treatment; fracture or dislocation of radius and ulna	100		
system		128	122	250
	Treatment; fracture or dislocation of hip and femur	412	616	1,028
	Treatment; fracture or dislocation of lower extremity (other than hip or femur)	414	439	853
	Other fracture and dislocation procedure	275	252	527
	Arthroscopy	10	13	23
	Division of joint capsule; ligament or cartilage	14	30	44
	Excision of semilunar cartilage of knee	7	5	12
	Arthroplasty knee	895	1,519	2,414
	Hip replacement; total and partial	908	1,116	2,024
<u> </u>	i i vivi i vivi i viri viri viri i vi	500	1,110	۷,024

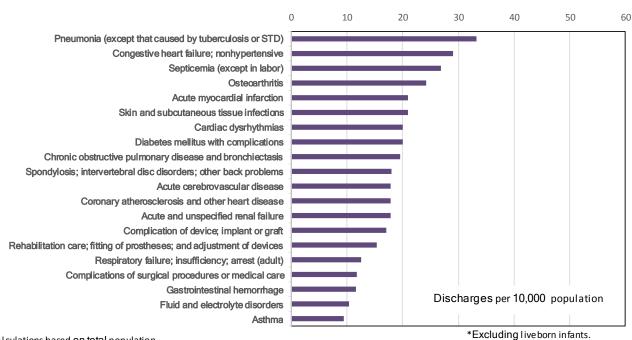
Single level CO	CS Procedure Categories and Chapter Headings	Male	Female	Total
	Arthroplasty other than hip or knee	56	90	146
	Arthrocentesis	148	99	247
	Injections and aspirations of muscles; tendons; bursa; joints and soft tissue	28	30	58
	Amputation of lower extremity	310	163	473
	Spinal fusion	2,054	2,302	4,356
	Other diagnostic procedures on musculoskeletal system	131	150	281
	Other therapeutic procedures on muscles and tendons	978	697	1,675
	Other OR therapeutic procedures on bone	448	434	882
	Other OR therapeutic procedures on joints	253	199	452
	Other non-OR therapeutic procedures on musculoskeletal system	560	759	1,319
	Other OR therapeutic procedures on musculoskeletal system	68	30	98
	Total	8,691	9,532	18,223
	Breast biopsy and other diagnostic procedures on breast	0		20
Operations	Lumpectomy; quadrantectomy of breast	1	25	26
on the	Mastectomy	2	92	94
integumentary	Incision and drainage; skin and subcutaneous tissue	467	352	819
system	Debridement of wound: infection or burn	407	322	729
	Excision of skin lesion	74	101	175
	Suture of skin and subcutaneous tissue	310	223	533
	Skin graft	181	127	308
	Other diagnostic procedures on skin and subcutaneous tissue	34	26	60
	Other non-OR therapeutic procedures on skin and breast	366	436	802
	Other OR therapeutic procedures on skin and breast	108	453	
	Total			561
		1,950	2,177	4,127
Miscellaneous	Other organ transplantation	3	9	12
diagnostic and	Computerized axial tomography (CT) scan head	2	3	5
therapeutic	CT scan chest	9	9	18
procedures	CT scan abdomen	16	14	30
	Other CT scan	10	11	21
	Myelogram	8	5	13
	Mammography	0	2	2
	Intraoperative cholangiogram	27	48	75
	Upper gastrointestinal X-ray	3	1	4
	Intravenous pyelogram	5	5	10
	Cerebral arteriogram	114	149	263
	Contrast aortogram	262	232	494
	Contrast arteriogram of femoral and lower extremity arteries	954	691	1,645
	Arterio- or venogram (not heart and head)	689	536	1,225
	Diagnostic ultrasound of head and neck	5		3
	Diagnostic ultrasound of heart (echocardiogram)	939	725	1,664
	Diagnostic ultrasound of gastrointestinal tract	15	14	29
	Diagnostic ultrasound of urinary tract	4	3	7
	Diagnostic ultrasound of abdomen or retroperitoneum	27	20	47
	Other diagnostic ultrasound	57	590	647
	Magnetic resonance imaging	51	65	116
	Electroencephalogram (EEG)	25	32	57
	Nonoperative urinary system measurements	1	1	2
	Cardiac stress tests	3	5	8
	Swan-Ganz catheterization for monitoring	31	29	60
	<u> </u>		_	
	Arterial blood gases	1	0	1

## APPENDIX C

Single level	CCS Procedure Categories and Chapter Headings	Male	Female	Total
	Radioisotope bone scan	3	1	4
	Radioisotope pulmonary scan	3	3	6
	Radioisotope scan and function studies	6	6	12
	Other radioisotope scan	2	2 4	6
	Therapeutic radiology for cancer treatment	69	52	121
	Diagnostic physical therapy	6	9	15
	Physical therapy exercises; manipulation; and other procedures	339	350	689
	Traction; splints; and other wound care	210	208	418
	Other physical therapy and rehabilitation	454	455	909
	Respiratory intubation and mechanical ventilation	5,016	4,537	9,553
	Other respiratory therapy	13	8	21
	Psychological and psychiatric evaluation and therapy	12	29	41
	Alcohol and drug rehabilitation/detoxification	35	13	48
	Ophthalmologic and otologic diagnosis and treatment	3,007	2,912	5,919
	Nasogastric tube	91	101	192
	Blood transfusion	4,219	4,640	8,859
	Enteral and parenteral nutrition	450	421	871
	Cancer chemotherapy	413	264	677
	Conversion of cardiac rhythm	571	379	950
	Other diagnostic radiology and related techniques	302	379	681
	Other diagnostic procedures (interview; evaluation; consultation)	2,117	2,134	4,251
	Prophylactic vaccinations and inoculations	3,691	3,693	7,384
	Nonoperative removal of foreign body	46	46	92
	Other therapeutic procedures	8,413	11,960	20,373
	Total	32,749	35,824	68,573

### APPENDIX D

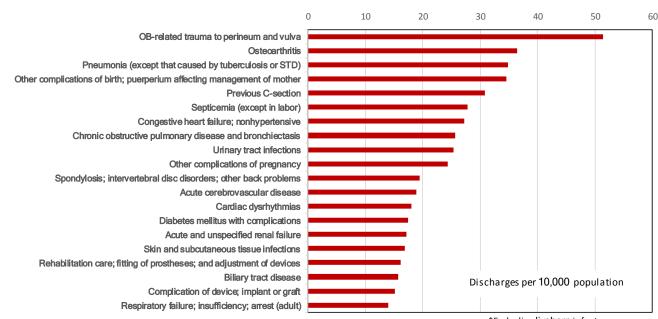
#### D1. Annual Hospitalization Rates for 20 Most Frequent Diagnoses\* of Males, All Delaware Residents, 2011



Note: Calculations based on total population.

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

## D2. Annual Hospitalization Rates for 20 Most Frequent Diagnoses\* of Females, All Delaware Residents, 2011



Note: Calculations based on total population.

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

 ${\bf *Excluding \, liveborn \, in fants.}$ 

E1. Conditions with the 10 Highest Total Charges, Delaware Hospitals, 2011

Rank	CCS Principal Diagnoses	Total Billed Charges	% of Total Charges	Number of Discharges
1	Septicemia (except in labor)	\$122,489,785	4.4%	2,716
2	Osteoarthritis	\$104,452,358	3.7%	3,141
3	Acute myocardial infarction	\$100,453,015	3.6%	1,865
4	Liveborn	\$84,588,755	3.0%	11,388
5	Pneumonia (except that caused by tuberculosis or STD)	\$84,563,393	3.0%	3,475
6	Spondylosis; intervertebral disc disorders; other back problems	\$79,032,702	2.8%	1,985
7	Coronary atherosclerosis and other heart disease	\$78,661,356	2.8%	1,489
8	Respiratory failure; insufficiency; arrest (adult)	\$76,898,746	2.8%	1,320
9	Complication of device; implant or graft	\$75,733,991	2.7%	1,824
10	Congestive heart failure; nonhypertensive	\$70,631,085	2.5%	2,798
Total for 1	0 most expensive conditions	\$877,505,186	31.5%	32,001
Total aggr	egate charges for all discharges	\$2,788,565,806	100.0%	109,965

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

E2. Discharges with Highest Mean Charges, Delaware Hospitals, 2011

CCS Dringing Diagnoses	Numbe	Number Discharges Percent of Total Discharge							Mean Charges		
CCS Principal Diagnoses	2001	2006	2011	2001	2006	2011	2001	2006	2011		
Total All Discharges	100,855	118,388	109,965	100.0%	100.0%	100.0%	\$11,000	\$18,020	\$25,359		
Cardiac and circulatory congenital	318	312	217	0.3%	0.3%	0.2%	\$72,172	\$101,848	\$247,424		
Leukemias	102	107	106	0.1%	0.1%	0.1%	\$54,460	\$88,154	\$225,979		
Respiratory distress syndrome	39	52	37	0.0%	0.0%	0.0%	\$36,311	\$69,124	\$169,733		
Attention-deficit	17	8	9	0.0%	0.0%	0.0%	\$6,427	\$9,778	\$163,794		
Nervous system congenital anomalies	32	44	45	0.0%	0.0%	0.0%	\$44,588	\$48,176	\$116,592		
Other congenital anomalies	295	295	251	0.3%	0.2%	0.2%	\$23,884	\$41,175	\$92,336		
Other acquired deformities	236	289	271	0.2%	0.2%	0.2%	\$32,962	\$69,273	\$90,601		
Cystic fibrosis	22	38	46	0.0%	0.0%	0.0%	\$41,221	\$58,257	\$89,796		
Heart valve disorders	231	326	324	0.2%	0.3%	0.3%	\$44,343	\$82,900	\$88,782		
Aortic; peripheral; and visceral artery	229	270	265	0.2%	0.2%	0.2%	\$31,744	\$56,859	\$84,651		

Source: Delaware Health and Social Services, Division of Public Health, Delaware Health Statistics Center

E3. Number, Percent, and Mean Charges for the Highest Volume Discharges, Delaware Hospitals, 2011

CCS Principal Diagnosco	Numbe	Number Discharges Percent of Total Discharge			Mean Charges				
CCS Principal Diagnoses	2001	2006	2011	2001	2006	2011	2001	2006	2011
Total All Discharges	100,855	118,388	109,965	100.0%	100.0%	100.0%	\$11,000	\$18,020	\$25,359
Livebom	10,406	11,861	11,388	10.3%	10.0%	10.4%	\$3,774	\$5,021	\$7,428
Pneumonia (except that caused by tuberculosis or	3,001	3,142	3,475	3.0%	2.7%	3.2%	\$12,317	\$17,947	\$24,335
Osteoarthritis	1,535	2,573	3,141	1.5%	2.2%	2.9%	\$18,548	\$27,141	\$33,254
Congestive heart failure; nonhypertensive	2,825	3,009	2,798	2.8%	2.5%	2.5%	\$12,840	\$23,841	\$25,243
Septicemia (except in labor)	775	1,723	2,716	0.8%	1.5%	2.5%	\$20,724	\$36,346	\$45,099
OB-related trauma to perineum and vulva	2,192	2,413	2,650	2.2%	2.0%	2.4%	\$3,172	\$4,753	\$6,786
Chronic obstructive pulmonary disease and	1,484	1,693	2,182	1.5%	1.4%	2.0%	\$10,609	\$14,572	\$18,286
Spondylosis; intervertebral disc disorders; other back	1,667	1,892	1,985	1.7%	1.6%	1.8%	\$12,796	\$25,615	\$39,815
Skin and subcutaneous tissue infections	1,146	2,025	1,968	1.1%	1.7%	1.8%	\$7,855	\$10,455	\$14,176
Cardiac dysrhythmias	1,902	2,028	1,944	1.9%	1.7%	1.8%	\$12,193	\$21,213	\$25,310

### 2011 Delaware Hospitalizations

### F1. Top 10 Most Frequent Diagnoses for Medicare, Delaware Hospitals, 2011

CCS Diagnosis	Number of	Percent of hospitalizations for this
CC3 Diagnosis	Discharges	condition billed to Medicare
Congestive heart failure; nonhypertensive	2,245	5.1%
Pneumonia (except that caused by tuberculosis or STD)	1,998	4.6%
Septicemia (except in labor)	1,950	4.5%
Osteoarthritis	1,791	4.1%
Chronic obstructive pulmonary disease and bronchiectasis	1,590	3.6%
Cardiac dysrhythmias	1,368	3.1%
Acute cerebrovascular disease	1,317	3.0%
Acute and unspecified renal failure	1,196	2.7%
Urinary tract infections	1,173	2.7%
Rehabilitation care; fitting of prostheses; and adjustment of devices	1,165	2.7%

### F2. Top 10 Most Frequent Diagnoses for Medicaid, Delaware Hospitals, 2011

CCS Diagnosis	Number of	Percent of hospitalizations for this
CC3 Diagnosis	Discharges	condition billed to Medicaid
Liveborn	5,831	21.8%
OB-related trauma to perineum and vulva	1,100	4.1%
Other complications of birth; puerperium affecting management of mother	898	3.4%
Previous C-section	772	2.9%
Other complications of pregnancy	733	2.7%
Pneumonia (except that caused by tuberculosis or STD)	623	2.3%
Diabetes mellitus with complications	547	2.0%
Skin and subcutaneous tissue infections	465	1.7%
Acute bronchitis	454	1.7%
Asthma	435	1.6%

#### F3. Top 10 Most Frequent Diagnoses for Privately Insured, Delaware Hospitals, 2011

CCS Diagnosis	Number of	Percent of hospitalizations for this
CC3 Diagnosis	Discharges	condition billed to Private Insurers
Liveborn	5,115	15.0%
OB-related trauma to perineum and vulva	1,405	4.1%
Osteoarthritis	1,106	3.2%
Other complications of birth; puerperium affecting management of mother	787	2.3%
Previous C-section	743	2.2%
Pneumonia (except that caused by tuberculosis or STD)	716	2.1%
Spondylosis; intervertebral disc disorders; other back problems	705	2.1%
Skin and subcutaneous tissue infections	577	1.7%
Appendicitis and other appendiceal conditions	504	1.5%
Diabetes mellitus with complications	493	1.4%

### F4. Top 10 Most Frequent Diagnoses for Uninsured, Delaware Hospitals, 2011

CCS Diagnosis	Number of	Percent of hospitalizations for this
CCO Diagnosis	Discharges	condition billed to Uninsured Patients
Mood disorders	132	5.1%
Liveborn	121	4.6%
Skin and subcutaneous tissue infections	106	4.1%
Acute myocardial infarction	95	3.6%
Diabetes mellitus with complications	83	3.2%
Pneumonia (except that caused by tuberculosis or STD)	71	2.7%
Acute cerebrovascular disease	67	2.6%
Pancreatic disorders (not diabetes)	65	2.5%
Alcohol-related disorders	61	2.3%
Biliary tract disease	57	2.2%

# G1. Conditions with the Highest Number of In-Hospital Deaths by Age Group <sup>1</sup> Delaware Hospitals, 2011

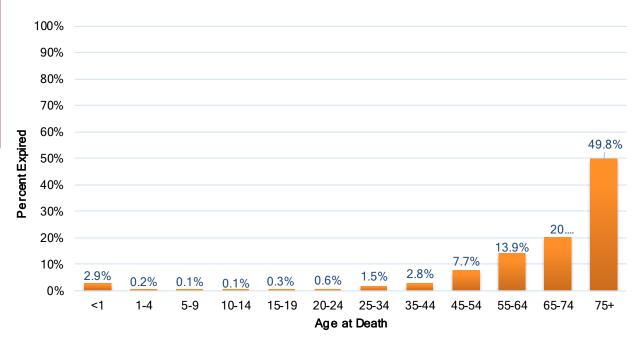
	Age Group in Years						
Diagnosis	Under 1	0-17	18-44	45-64	65+	TOTAL	
Septicemia (except in labor)	1	0	13	102	333	449	
Other aftercare	0	0	5	69	221	295	
Acute cerebrovascular disease	0	0	12	45	152	209	
Respiratory failure; insufficiency; arrest (adult)	0	1	5	29	129	164	
Pneumonia (except that caused by tuberculosis or STD)	1	3	5	22	107	138	
Congestive heart failure; nonhypertensive	0	0	0	10	115	125	
Acute myocardial infarction	0	0	0	25	79	104	
Acute myocardial infarction	0	0	0	25	79	104	
Aspiration pneumonitis; food/vomitus	1	0	4	12	79	96	
Secondary malignancies	0	0	2	37	54	93	
Intracranial injury	0	2	12	14	32	60	
Acute and unspecified renal failure	0	0	0	9	50	59	
Cardiac arrest and ventricular fibrillation	2	1	3	17	24	47	
Other liver diseases	0	0	3	19	10	32	
Leukemias	0	2	0	8	13	23	
Peripheral and visceral atherosclerosis	1	0	1	3	16	21	
Aortic; peripheral; and visceral artery aneurysms	0	1	1	2	16	20	
Coma; stupor; and brain damage	0	1	4	3	7	15	
Pleurisy; pneumothorax; pulmonary collapse	0	1	0	1	12	14	
Crushing injury or internal injury	0	0	6	3	4	13	
Epilepsy; convulsions	0	1	2	1	8	12	
Substance-related disorders	0	0	10	2	0	12	
Mood disorders	0	0	10	0	0	10	
Poisoning by other medications and drugs	0	0	6	3	0	9	
Cardiac and circulatory congenital anomalies	7	0	0	0	0	7	
Other perinatal conditions	4	0	0	0	0	4	
Short gestation; low birth weight; and fetal growth	3	0	0	0	0	3	
Acute bronchitis	0	1	0	0	1	2	
Other congenital anomalies	2	0	0	0	0	2	
Bacterial infection; unspecified site	0	1	0	0	0	1	
Digestive congenital anomalies	1	0	0	0	0	1	
Intrauterine hypoxia and birth asphyxia	1	0	0	0	0	1	
All Discharges to Death	91	19	156	682	2,210	3,158	

#### Notes:

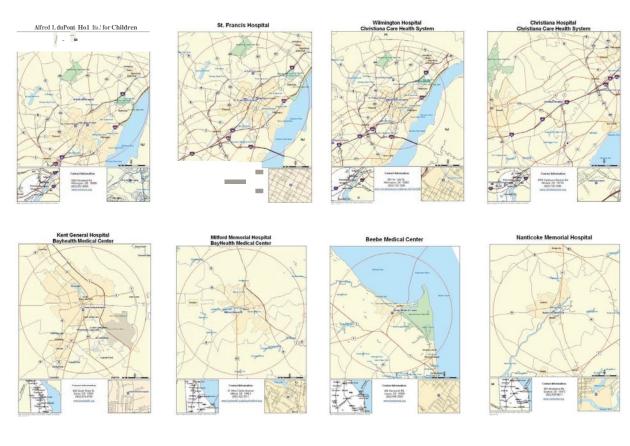
<sup>1.</sup> Diagnoses selected by taking the top ten diagnoses for each age group.

## APPENDIX H

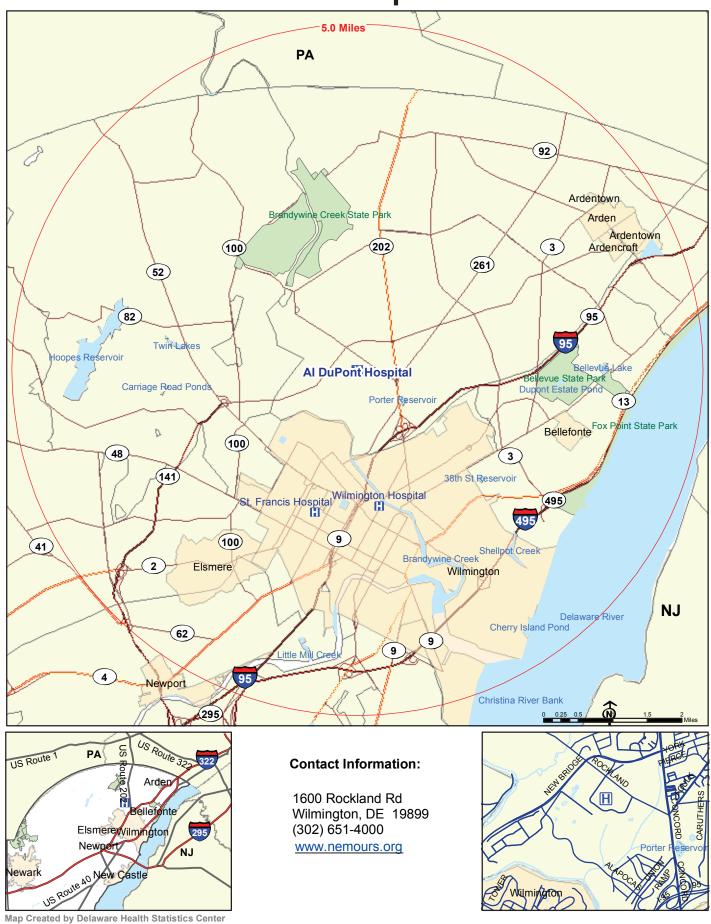




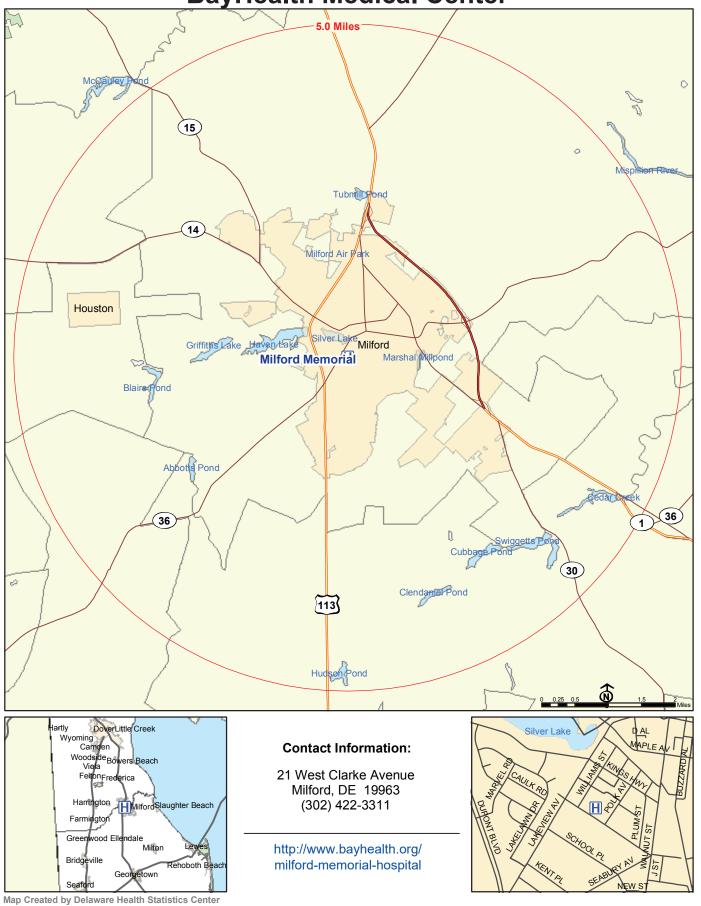
# **HOSPITAL LOCATION MAPS**



# Alfred I. duPont Hospital for Children

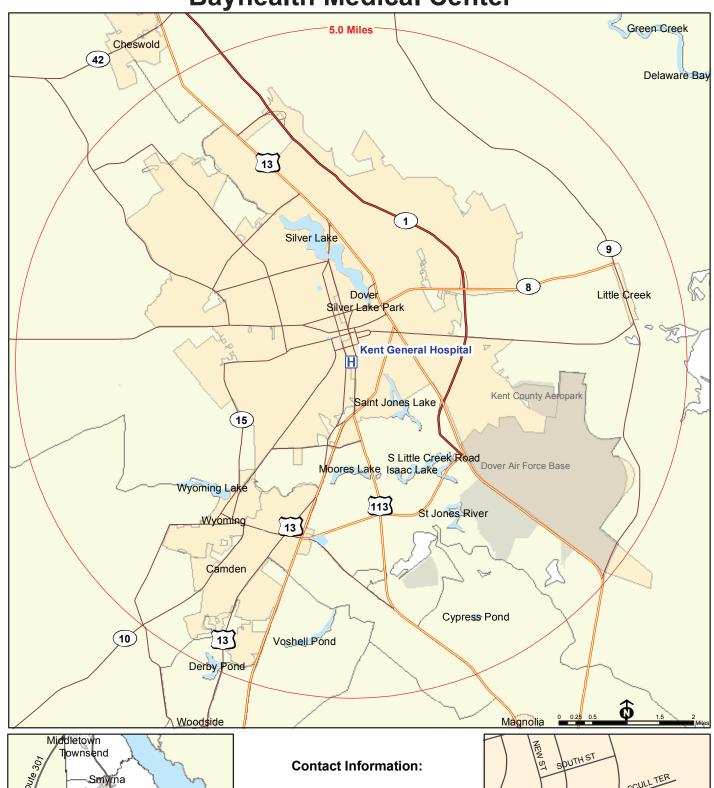


Milford Memorial Hospital BayHealth Medical Center



BG 4.27.06

Kent General Hospital Bayhealth Medical Center





## Map Created by Delaware Health Statistics Center BG 4.27.06

640 South State St. Dover, DE 19901 (302) 674-4700

http://www.bayhealth.org/kent-generalhospital/kent-home



# **Beebe Medical Center**



# St. Francis Hospital



**Wilmington Hospital Christiana Care Health System** 

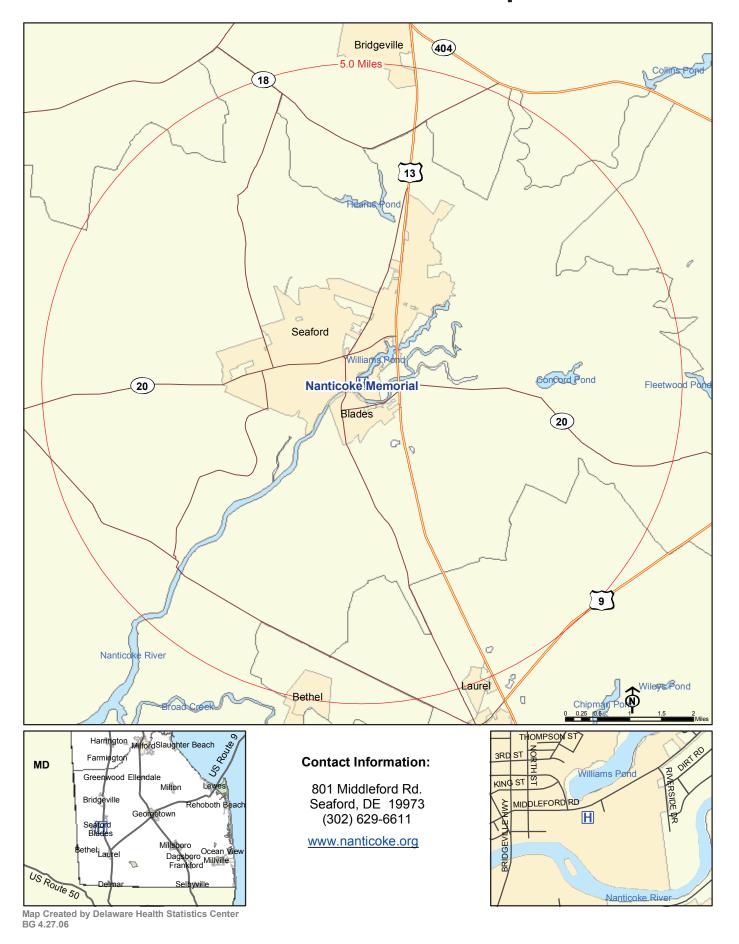


http://www.christianacare.org/wilmingtonhospital

Christiana Hospital
Christiana Care Health System



# **Nanticoke Memorial Hospital**



# **Select Specialty Hospital**



#### Methods:

Hospital discharge data is recorded in the state's uniform claims and billing database, which is maintained under contract by the University of Delaware. Pursuant to the Uniform Health Data Act (16 Del Code, C.20), Delaware hospitals must submit uniform claims and billing data each quarter. These quarterly submissions are checked for data quality and completeness, and collated into an annual file by the University of Delaware. Each annual data file is stored at the Delaware Health Statistics Center, which is responsible for all data analysis, reports, and fulfilling of data requests.

### Rate calculations and significance testing:

Hospital Discharge Rates were calculated using the Delaware Population Consortium's (DPC) October 2014 population projections, and were presented as the number of discharges per 10,000 population. Significance testing for the difference between rates was performed using the following formula:

<u>Rates</u> - When the absolute value of the following statistic is greater than 1.96, then the difference between two rates  $(R_1 - R_2)$  is considered statistically significant at the 95-percent confidence level.

$$z = \frac{\frac{R}{1} - \frac{R}{2}}{\sqrt{\left(\frac{R^{2}}{N_{1}} + \frac{R^{2}}{N_{2}}\right)}}$$

where

R<sub>1</sub> = first rate

 $R_2$  = second rate

N<sub>1</sub> = first number of discharges

 $N_2$  = second number of discharges

<u>Percents</u> - When the absolute difference between two proportions is greater than the statistic in the formula below, the difference is considered statistically significant at the 95-percent confidence level.

$$1.96 \times \sqrt{p(-p)*} \left(\frac{1}{1} + \frac{1}{1}\right)$$
 $N_1 \quad N_2$ 

where

N<sub>1</sub> = first denominator

N<sub>1</sub> = second denominator

$$p = \frac{\frac{+}{N_1 * p_1 + N_2 * p_2}}{\frac{+}{N_1 N_2}}$$

p<sub>1</sub>=the first percent

p<sub>2</sub>=the second percent

#### **Definitions:**

**Admission source** - The source of the patient's admission, e.g., emergency, another hospital, or long term care facility, which describes how the patient was admitted.

Aggregate charges - The sum of all charges for all hospital stays.

**Body System** - In this report, it represents the more generalized grouping of CCS categories that correspond with ICD-9 CM chapter headings.

Clinical Classification System (CCS) - This refers to the classification system developed at the Agency for Healthcare Research and Quality (AHRQ) used to aggregate ICD-9-CM codes into broader, homogeneous groups. In this report, the 2011 version of the single-level diagnosis classification scheme is used for both diagnoses and procedures. Because CCS codes are based on ICD-9-CM diagnoses, they can be mapped to ICD-9-CM chapter headings. Data in this report are presented by both CCS diagnoses and by ICD-9-CM chapters. For more information, see <a href="https://www.ahrq.gov/research/data/hcup/index.html">https://www.ahrq.gov/research/data/hcup/index.html</a>.

**Discharge** - A completed inpatient hospitalization. A hospitalization may be completed by death or by releasing the patient to his or her home, a long-term care facility, another hospital, or if the patient leaves against medical advice.

**Discharge Status** - The disposition of a patient at discharge from the hospital into one of the following categories:

- Home or routine discharge patient returned to previous place of residence after discharge from the hospital.
- Long-term care facility patient entered a nursing home including skilled nursing facilities, extended care facilities, custodial care facilities, or other long term care placement upon discharge from the hospital.
- Another short-term hospital patient transferred to another short-term hospital at discharge, including short-term maternity hospitals.
- Against medical advice (AMA) patient left the hospital against medical advice.
- Expired patient who died during the inpatient stay.
- Home health care patient discharge to home where care is provided by a home health care agency for the
  purpose of promoting, maintaining, or restoring health, or for minimizing the effects of disability and illness,
  including terminal illness.
- Unknown patient whose status was not entered.

**Ecodes -** Indicate the external causes of injuries and poisonings as well as the adverse effects of drugs and substances. They are intended to provide data for injury research and evaluation of injury prevention strategies. These codes capture how the injury or health condition happened (cause), the intent (unintentional or accidental; or intentional, such as suicide or assault), the place where the event occurred, the activity of the patient at the time of the event, and the person's status (e.g. civilian, military).

**Expected source of payment** - The principal expected source of payment for the hospitalization.

- Medicare The health insurance program for the aged and disabled administered by the Centers for Medicare and Medicaid Services (formerly the Health Care Financing Administration).
- Medicaid A jointly funded Federal-State health insurance program providing medical care to those unable to afford it.
- Worker's compensation A State or municipal disability insurance or industrial accident insurance.
- Private health insurance- Includes HMO/PPO, Blue Cross/Blue Shield, and other private insurance.
  - HMO/PPO Any health maintenance organization (HMO) or preferred provider organization (PPO) sponsored by consumers, communities, physicians, or hospitals.
  - Blue Cross/Blue Shield and other private A private insurance plan not specified as an HMO/PPO. This
    includes Blue Cross/Blue Shield plans, medical coverage provided by life insurance companies,
    casualty insurance companies, health insurance companies, and independent plans such as employer/
    union-sponsored plans and/or self-funded plans (partial or total).
- Self-pay The majority of the costs for the hospitalization were expected to be paid by the patient, spouse, family, or next-of-kin.

- Other government Other Federal, State, or local government other than worker's compensation, Medicare, and Medicaid not listed separately, including casualty insurance paid by the State, Federal or State medical research grant.
- No charge Patients admitted with the understanding that payment would not be expected because the medical services are free, e.g., charity patients or research or teaching patients.
- Other and not stated.

Hospital charges - The amount the hospital charged for the entire hospital stay.

International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) - The official system of assigning codes to diagnoses and procedures associated with hospital stays in the United States. The ICD-9-CM is based on and is compatible with the World Health Organization's International Classification of Diseases, Ninth Revision. ICD-9-CM is divided into 17 chapters and two supplemental classifications. Diagnoses are grouped under chapters arranged primarily by body system. In addition, there are chapters for infectious and parasitic diseases; neoplasms; endocrine, metabolic, and nutritional diseases; mental disorders; complications of pregnancy, childbirth and puerperium; certain conditions originating in the perinatal period; congenital anomalies; and symptoms, signs and ill-defined conditions. The two supplemental classifications are for factors influencing health status and contact with health services and classification of external causes of injury and poisoning. More information can be found online at <a href="https://www.cdc.gov/nchs/icd/icd/9cm.htm">https://www.cdc.gov/nchs/icd/icd/9cm.htm</a>.

Length of stay - The number of nights the patient remained in the hospital for this stay.

**Liveborn** - The term for the hospitalization that results from an infant being born in the hospital, also referred to as newborn. They are identified by a specific range of ICD-9 CM codes on the discharge record. Records of infants born in the hospital are separate and distinct from the mothers' discharge records, so excluding liveborn infants does not remove the mother's discharge data from the analysis.

Long-term care facility - A facility that provides a specific level of personal or medical care or supervision to residents. Types of long-term care facilities include licensed nursing homes, skilled nursing facilities (SNF), intermediate care facilities (ICF), hospice medical facilities, and other health care institutions, such as institutions for those with intellectual disabilities.

**Mean length of stay** - Average length of stay for discharges. It is calculated by dividing the total number of days of care by the number of discharges.

Obstetric (OB) - The branch of care that deals with the management of pregnancy, labor, and the puerperium.

**Primary diagnosis** - The diagnosis chiefly responsible for the admission of the patient to the hospital; it is the first-listed diagnosis specified on the discharge summary of the medical record.

Procedures - Up to six procedures, the principal and five additional, may be recorded on a single hospital stay.

- Principal procedure refers to the first-listed procedure, which is the procedure performed as a specific treatment for the hospitalization, or the one most closely related to the principal diagnosis.
- All-listed procedures refers to the principal plus any secondary procedures appearing on a single discharge record/performed during a hospital stay. Because patients often receive more than one procedure, the number of all-listed procedures usually exceeds the number of discharge with procedures.

**Procedure classes** - Refers to AHRQ's HCUP classification system for procedures, which are categorized into four general categories: minor diagnostic, minor therapeutic, major diagnostic, and major therapeutic. The two minor categories are considered non-operating procedures and the two major categories are considered valid operating procedures. This report uses the 2011 version of the classification system. More information can be found at: <a href="http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure.jsp">http://www.hcup-us.ahrq.gov/toolssoftware/procedure/procedure.jsp</a>.

**Puerperium** - The period or state of confinement after labor and giving birth.

**Rate** - A rate is a measure of an event, disease, or condition in relation to a unit of population for a specified time. For example, the five-year average discharge rate per 10,000 population is calculated as follows:

(Five-year total number of discharges / Five-year total population) \*10,000

**Short-stay Hospitals** - A short-stay hospital is one where the average length of stay is less than 30 days.

Uninsured patients - A term for those patients whose primary payer is listed as self-pay.

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