HEALTHCARE IN KENTUCKY:
A Review of Hospital Inpatient Data Utilization
July 1, 2004–June 30, 2005

Cabinet for Health and Family Services
Office of Health Policy
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1. Introduction

1.1. Statutory Requirement and Intent

KRS 216.2929 sets forth several requirements for the collection and reporting of data on health care in Kentucky. One specific requirement of the law is:

> "The Cabinet for Health Services shall at least annually, on or before July 1, prepare and publish, in understandable language with sufficient explanation to allow consumers to draw meaningful comparisons, a report or reports on health care charges, quality, and outcomes which includes diagnosis-specific or procedures-specific comparisons for each hospital and ambulatory facility, differentiated by payer if relevant, and for other provider groups as relevant data becomes available."

This report is submitted in compliance with this requirement.

1.2. Consumer Oriented Health Information

More than ever, Kentucky health care consumers are being asked to make difficult health care decisions about health plans, providers, and treatments. The legislative intent of collecting these data was to make available comparative information to assist the Kentucky health care consumer with those decisions. To provide consumers with appropriate information however, it is important to know what information is wanted, how the information will be used, and how it is best represented.

In order to make the best possible health care decision consumers should be able to compare understandable data of the various health providers and health conditions affecting Kentuckians. Kentucky has traditionally lagged behind other states in making this information about the health delivery system available. So while the opportunity to draw comparisons on use, cost, and outcome was provided for in legislation, much work is still required to accurately describe Kentucky's inpatient delivery system and its use by Kentuckians.

This report takes another step in the process of presenting reliable, comparative information. It includes many examples of diagnosis-specific reports that utilize the richness of the data regarding citizens' use of inpatient health care in Kentucky as well as the unlimited possibilities for analysis. This report illustrates how consumers and planners can educate themselves on Kentucky's inpatient utilization and more importantly on the health status of its citizens.

2. The Health Policy Development Subprogram

The Health Policy Development subprogram performs duties statutorily required in KRS 216.2901 through 216.2929, specifically, "… shall pursuant to Section 27, analyze and disseminate information on the cost, quality and outcomes of health services provided by health facilities and health care providers in the Commonwealth."

2.1. Mission

The mission of the Health Policy Development subprogram is to provide both public and private sectors with timely and accurate information on the cost, quality and outcomes of health services in Kentucky, research and analysis in support of health policy development and the facilitation of a statewide health information system.

2.2. Data Activities and Data Use

The Health Policy Development subprogram provides for the collection of healthcare cost and quality data from providers, hospitals, and health facilities through data submitted on the uniform health insurance claim form. It is also tasked with the regular convening of a permanent advisory committee to define quality outcome measures and advise the Cabinet for Health and Family Services on data interpretation and publications. The subprogram is able to provide more detailed reports including comparative consumer information, analysis of Diagnostic Related Grouping, severity adjusted data to compare hospitals treating sicker patients, and comparison of outpatient facilities on costs and procedures. The data collected supply information to the Birth Surveillance Registry, Brain Injury Surveillance Registry, Kentucky Injury Prevention Registry and the Office of Women's Mental and Physical Health and to the Kentucky healthcare stakeholders. This subprogram collected 479,867 inpatient and 559,999 outpatient records from July 1, 2004 through March 31, 2005[1]. This represents an increase of approximately 2.75% in overall record volume compared to the same period one year ago.

2.3. Public Use Data Sets

Kentucky's inpatient hospitalization and ambulatory surgery data is available for purchase by not-for-profit entities and the general public as electronic files each containing a calendar year of data. Records have been purged of personal identifiers in compliance with the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and purchasers are required to sign an agreement prohibiting the sale or transmittal of raw data to other users or the linking of data to other data sets. Data is also provided free of charge on request for approved research projects at Kentucky universities, schools of public health, and local health departments. Recipients of these data sets must also sign a users' agreement prior to receiving data.

[1] The final close date for second quarter data is September 15. Estimated inpatient and outpatient volumes for July 1, 2004 through June 30, 2005 are 657,367 and 725,786 records, respectively.

Public use data sets have also been made available to authorized users within the Kentucky Department for Public Health. These data sets differ slightly from the for-purchase/research data sets in that age groups specific to certain programs have been added and the Area Development District in which a hospital is located is included in the Facility Translation Table.

Section 3 – Responses to Data Requests

3.1. Summary data

The following list is representative of summaries that have been requested and disseminated during fiscal year 2004-2005. Many of these synopses have been in direct response to requests from researchers, policy makers, and the general public to clarify their understanding of inpatient resource utilization in the Commonwealth; others have been created to augment various reports published by agencies within the Cabinet for Health and Family Services. For example, Kentucky's UB92 data:

- have been summarized in the Annual Hospital Utilization and Services Report for public distribution;
- have been used internally by all chronic disease programs to measure program progress and to obtain program grant extension;
- have enabled a more thorough analysis of motor vehicle injuries and fatalities on Kentucky's highways;
- have been referenced in newspaper articles relating to the status of health care in Kentucky;
- have provided baseline information for public advocates in mental health, suicide prevention, asthma and other respiratory conditions.

While by no means exhaustive, this list is indicative of the breadth and scope that these data offer. A sampling of these summaries is collected in Appendix A; included summaries are denoted with an "[A]" in the list below.

1. Hospitalization days by facility and payer, 2004 Annual Hospital Utilization and Services Report (B. Sanderson, Health Policy and Planning, KCHFS)[A]

2. Leading twenty-five DRGs by facility ADD, 2004 Annual Hospital Utilization and Services Report (B. Sanderson, KCHFS, Health Policy & Planning)[A]

3. Facility activity by selected category and quarter, 2004 Annual Hospital Utilization and Services Report (B. Sanderson, KCHFS, Health Policy & Planning)[A]

4. Asthma hospitalization rates, children 0-4, 2000-2004 (P. McLendon, KCHFS, Chronic Disease P&C)[A]

5. Asthma hospitalizations and charges, 2002-2004 (P. McLendon, KCHFS, Chronic Disease P&C)[A]

6. Map: Asthma hospitalizations under age 18 by ZIP code, Jefferson County, 2003 (P. McLendon, KCHFS, Chronic Disease P&C/V. Salley, Jefferson County Housing Coalition)[A]

7. Mammograms by ADD and age group (M. Adkisson, KCHFS/Office of Women's Physical & Mental Health/Dr. G. Friedell, Univ. of Kentucky Hospital)[A]

8. Ohio and Indiana residents in Kentucky hospitals, 2004 (S. Turner, Greater Cincinnati Health Watch)

9. Colon cancer stage of diagnosis and distance to treatment, 2000-2003 – MPH Capstone Project, Univ. of Kentucky College of Public Health (M. Katirai, KCHFS, Health Policy & Planning)

10. Maps: Asthma hospitalizations, 2003 – Eastern Kentucky Univ. College of Health Sciences Internship Project (S. Pasupulati, KCHFS, Health Policy & Planning)[A]

11. Hepatitis B, C hospitalizations by facility, patient county of residence, 2004 (J. Weber, KCHFS/Health Policy & Planning)

12. Emergency angioplasties, 2003 (M. Katirai & J. Weber, KCHFS, Health Policy & Planning)[A]

13. Asthma hospitalizations by county and age group,2002-2003 (P. McLendon, KCHFS, Chronic Disease P&C/E. Siegel, Environmental Quality Commission, Kentucky EPPC)

14. Non-fatal injuries to Kentucky resident inpatients age 0-14 and 15-24, 2003-2004 (M. Singleton, KIPRC for G. Cobb, KCHFS/Maternal and Child Health)

15. Mental diagnoses, age 0-17, 2002 (L. Kurtz, KCHFS/MHMR)

16. Update suicide statistics for 2003 (T. Robbins, KCHFS/MHMR)

17. Suicide attempts for 18-24 year olds, Warren Co., 2003 (R. Greer, Western Kentucky University Counseling Center)

18. Suicide attempts by county, 2003 (D. Burnham, Univ. of Kentucky Dept. of Agriculture)

19. 2003 Cost Of Suicide Attempts In Jefferson County (T. Robbins,)

20. Suicide attempts, age 0-17 (M. Burklow, KCHFS/Maternal and Child Health)

21. Suicide atempts by age group, Northern KY ADD (J. Rolfes, Mental Health Association of Northern Kentucky)

22. Live births by facility and year, (S. Cleveland, KCHFS/Maternal and Child Health)

23. Suicide attempts by age and gender, Jefferson Co., 2003 (J. Padgett, MHSA)

24. Diagnosis codes 296.2, 296.3, 296.5, 298.0, 296.82, ages 6-12, 2003 (Lauren Kapp, Univ. of Kentucky)

25. Self-inflicted injury by county, 2000-2002 (Jason Padgett, KCHFS/MHMR; original request from Eastern Kentucky)

26. Suicide attempts, ages 10-24 by ADD, 2000-2003 - SAMHSA grant application (Jason Padgett, KCHFS/MHMR)

27. Radiation data codes 990 and 558.1, Kentucky residents, 2004 (Matthias Turina, M.D., Univ. of Louisville)

28. Self inflicted injury by age, ADD, gender, county, and method, 2000-2003 - Community Tool Kit (J. Padgett, KCHFS/MHMR)

3.2. Public Use Data Sets

Over the past five years, the number of inpatient and outpatient public use data sets that have been purchased by stakeholders has risen from two in 2000-2001 to sixteen during the current period. Inpatient hospitalization data from Kentucky hospitals are also provided to the Healthcare Cost and Utilization Project (H-CUP), a nationwide health data collection and analysis effort sponsored by the Agency for Healthcare Research and Quality (AHRQ). These data are included in H-CUP's Nationwide Inpatient Sample (NIS), together with similar data from thirty-six other H-CUP partner states. Data from these state inpatient databases are also extracted and included in HCUP's KIDS database. As part of the H-CUP project, Kentucky inpatient data is included in H-CUPnet, an interactive, web-accessible service which enables public access and comparison of H-CUP state partner data. Kentucky is also one of seventeen state contributors of ambulatory surgery data to HCUP's State Ambulatory Surgery Data Base.

Nine sets of Kentucky's UB 92 data have also been provided to qualified researchers free of charge. These data are being used for projects as diverse as the study of respiratory and cardiac admissions in industrial areas of Louisville to mental health services referral studies throughout the state.

The following list of public data set users again illustrates the diversity of application of Kentucky hospitalization data and the level of importance placed upon it.

1. Inpatient and Ambulatory Surgery Datasets, 2004 (AHRQ Healthcare Cost and Utilization Project)

2. Jefferson County inpatients, 2000-2003 (4 files) - Respiratory/cardiac admits in Louisville (Dr. T. Aldrich, Univ. of Kentucky College of Public Health)

3. Inpatient hospitalizations, 2004 – Motor vehicle and other accident studies (M. Singleton, KIPRC)

4. Inpatient hospitalizations, 2003 – Marty Driessler Cancer Project (J. Cain, Univ. of Kentucky Markey Cancer Center)

5. Inpatient hospitalizations, FY01-FY03 (3 files) – State/acute care hospital referral study, Mental Health programs (J. Pandiani, Bristol Labs/ L. Kurtz, KCHFS/MHMR)

6. Inpatient hospitalizations, 2003 (W. Hurlock, St. Mary's Health System, Evansville, IN)

7. Inpatient hospitalizations, 2003 (S. Stokes, Kurt Salmon Associates, Atlanta, GA)

8. Twelve sets of Kentucky's public use inpatient data were also purchased for various research activities through the H-CUP Project's Central Distributor.

An important prerequisite in obtaining a public use data file is the Data Users' Agreement, modeled after a similar document used by the H-CUP Project. All requestors of Kentucky hospitalization data sets are required to sign a users' agreement prior to receiving data. This agreement prohibits the recipient from selling raw or summary data and tasks the recipient with maintaining the confidentiality of the data. A copy of the Kentucky agreement is contained in Appendix B of this document.

Section 4 – Health Data Advisory Committee – Minutes and Presentations

The Health Policy Development Branch has also been tasked with administrating an advisory committee which will "… advise the cabinet on technical matters including proper interpretation of the data and the manner in which it should be published and disseminated …" (KRS 216.2923(e)). The minutes of the quarterly meetings of the Data Advisory Committee are included here to present a more complete picture of Kentucky's hospitalization data utilization by giving insight into the issues and interests shared and discussed by health care providers and the Cabinet in collecting and disseminating these data.

During the 2005 legislative session, KRS 216.2923 was amended to broaden the mission and scope of the advisory committee beyond hospital discharge data collection, analysis, and dissemination. Commissioners from health care-related state departments, (Public Health, Mental Health and Mental Retardation Services, Medicaid, Insurance) health care provider groups (physicians, hospitals, nonphysician providers), health insurers, employers, and consumers will be appointed by the Cabinet secretary to advise on the " … collection, analysis, and distribution of consumer-oriented information related to the health care system, … "[2]. The Health Policy group continues to administrate this expanded advisory committee and report on its activities.

[2] HB 278, Sec. 5

4.1. July 9, 2004

HEALTH DATA ADVISORY COMMITTEE

July 9, 2004

9:00 a.m.

MEMBERS PRESENT:

Sherill Cronin, Ph.D.
Bellarmine University

Ben Yandell
Norton Healthcare

Paul Sinkhorn
Jewish Hospital

Larry Bone
Four Rivers Healthcare
Purchasing Alliance

Bob Lucas
King's Daughters Medical Center

Chuck Warnick
Baptist Hospital

Ronald Crouch
University of Lousville
State Data Center

Wayne Higgins, PhD
Western Kentucky University

John Lewis, M.D.
Health Care Excel

Joyce Robl
Kentucky Birth Surveillance
Registry

MEMBERS ABSENT:

Carol Ireseon
UK Center for Health Services
Management and Research

Jerry Henry

STAFF: Department for Public Health, Health Policy Development Branch
David Clark, Mark Fazey, Martha Graves
Charles Kendell, Doug Thoroughman
Tricia Williams, Beth Sanderson

GUESTS: Paige Clements, Kentucky Hospital Association
Mike Singleton, Kentucky Injury Prevention and Research Center
Stacey Woodrum, Medical Heights Surgery Center
Vestena Robbins, Kentucky Department of Mental Health
and Mental Retardation
Timothy Hare, Morehead State University

CALL TO ORDER

Charles Kendell called the meeting to order in the Salato Wildlife Center.

APPROVAL OF MINUTES

Minutes from the meeting of May 6, 2004 were approved without change.

WELCOME AND INTRODUCTIONS

Charlie welcomed the committee and guests. Charlie announced that Dr. William Hacker has been named Acting Commissioner for the Department for Public Health and Dr. Kraig Humbaugh has been named Director of the Division of Epidemiology and Health Planning.

PRESENTATIONS

Mark Fazey presented information on AHRQ quality indicators, titles "Measuring Healthcare Quality with Hospital Discharge Data." Following Mark's presentation, the committee discussed issues of using the UB92 data to measure quality of healthcare. The committee agrees that measuring outcomes will become more important in many aspects of healthcare, including reimbursement and public awareness. Ben Yandell cautioned the group on releasing data before reaching a thorough understanding of what the data means. The UB92 data is administrative data which raises issues when doing risk adjustment. John Lewis pointed out that there are two kinds of measures, outcomes measures and process measures in which the process measures actually predict the outcome. Larry Bone stated that quality indicators are being used in the industry and that hospital discharge data will paint a more accurate picture of quality than the Medicare data currently being used. Commercial products for measuring quality are currently on the market.

John Lewis pointed out a change in Medicare law that may affect data. Medicare is currently collecting data through a project call Reporting Hospital Quality Data …… (RHQD…) The project collects data to perform 10 core measurements (process measures) that have been agreed upon by CMS and JCAHO. All hospitals in Kentucky are submitting data. Currently facility payments are reduced by .4% if the hospital does not provide data to this voluntary system.

Ben Yandell pointed out that JCAHO will release their quality indicators in 6 days.

Paige Clements stated that KHA is currently evaluating individual hospital data for each hospital using an AHRQ model. This information will not be published.

Larry Bone passed around an example of a hospital quality report for Northern Ohio.

Paul Sinkhorn expressed concern that hospitals collectively have difficulty sharing/recording clinical information in a standard format. He pointed out that there needs to be consistency among hospitals in the system and may need federal standards and/or financial assistance. Also, mandates are made on the hospitals for quality improvement without physician involvement. Since physicians dictate much of the patient care in hospitals, the medical staff needs to be involved, including participating in penalties and incentives.

Timothy Hare, PhD from Morehead State University made a very interesting presentation on the use of spatial data to analyze access to hospital care. He is currently doing a GIS Health care Service Study. The presentation contained maps of the state showing where the hospitals are located, where patients in specific zip code areas go for care. The committee was very interested in his analysis.

OLD BUSINESS

Paige Clements announced that a pilot project is underway to collect ED data on a voluntary basis beginning the 3rd quarter of 2004. This data will be collected for 6 months with the possibility of continuing collection based on the outcome of the pilot. All hospitals on the data committee have volunteered to submit their ED data. Paige passed out a list of ICD-9 codes that are being collected. Compdata is ready to receive the data with the 3rd quarter closeout. This data will be maintained in a separate database and will not be available in the Compdata system.

Charlie discussed the current data release policies of KHA and DPH. KHA is looking internally about changing their release policy. KHA currently does not release hospital discharge data. DPH has a data release policy which currently excludes releasing the data for commercial purposes. DPH will be discussing this policy with Cabinet officials and may redefine what elements to release for what purposes.

Mark noted that a researched from the University of Pennsylvania School of Medicine requested physician ID numbers.

Mark Fazey has been working with the state universities to establish a contact at each school to house the public use data file for student research. Currently, Carol Ireson is the contract for University of Kentucky, Wayne Higgins for Western Kentucky University, and Tim Hare for Morehead State University. Mark is looking for contacts at University of Louisville and Eastern Kentucky University. Ron Crouch will try to find the appropriate contact for UL and Wayne Higgins suggested Mike Ballard for EKU. Mark presented the issue of whether or not to mask hospital name and zip code from the University datasets. The committee decided that DPH should use its own judgment on releasing this elements based on the proposal and the data release agreement.

The committee agreed that quality measures should be available and that hospital data should be released at some point. They are, however, concerned over how to make that happen while maintaining control of the data.

NEW BUSINESS

In a meeting between DPH and representatives from the Kentucky Ambulatory Surgery Center Association, it was agreed Ambulatory Surgery Centers will begin reporting 7 or 8 pieces of information via the internet. DPH is developing the requirements and the reporting will be patient based. The parties agreed to take 30 days for system development. ASCs currently submit utilization data via the internet and will build on this system to collect patient level data. DPH and ASCs will meet again prior to beginning data collection.

Mark Fazey announced that a DPH user group had been established. The Health Policy Development branch will provide the public use data set to authorized DPH users to allow data sharing on issues such as diabetes and cardiovascular disease.

Charlie asked committee members about issues they were dealing with regarding data. Larry Bone stated they are looking at ways to increase quality and access and struggling with interpreting “report cards”. Bob Lucas stated that the closure of River Valley in Ironton, Ohio has increased the number of patients seen in the Ashland area. There are more physician owned services in the area and providers are “cherry picking”. Surgery Centers can open in Ohio without a Certificate of Need.

Ron Crouch told the committee about the change in the definition of Metropolitan Statistical Area, which has increased the number of MSAs in Kentucky. The new definition of a MSA is a metropolitan area > 50,000. Micropolitan area, a new designation, is an area >10,000. Medicare currently has a higher reimbursement rate for MSAs so this change may affect Medicare reimbursement rates. Ron also informed the group that starting in 2005, yearly census data including information on poverty rates and education based on a weighted average will be available. The 2010 Census will consist of only the short form. The American Community Survey will replace the long form census data.

Mark Fazey announced that Compdata will begin to send weekly e-mails and a newsletter, the "Monthly Monitor" to users. Mark also thanked Tim Hare for his presentation and asked if Tim had any questions for the committee. Tim asked if there was a way to match the UB92 data with census tracts. The committee stated that there is a GIS group working in Frankfort and suggested he contact that group.

Paige Clements updated the committee on the Compdata meeting. Compdata is making some recommended changes to procedures such as more electronic communication and will be sending e-mail to users addressing their issues.

Chuck Warnick informed the committee that Medicare will begin kicking out bills if ICD-9 procedure codes are on the claim. This is for outpatient claims only. Baptist Healthcare is looking at ways to suppress the ICD-9 procedure codes on the claim. This change may mean the ICD-9 procedure codes are no longer in the UB-92 database.

COMMITTEE HOUSEKEEPING

The meeting schedule for the remainder of the year are as follows: October 8, 2004, at the Game Farm's Salato Wildlife Center, Frankfort, Kentucky from 9am - 11:30 am.

4.1.1 – Presentations

- **Quality Indicators: Measuring Health Care Quality With Hospital Discharge Data – Mark Fazey, KDPH/HPAB**

Quality Indicators

Measuring Health Care Quality with Hospital Discharge Data

Mark Fazey, KYDPH/HPAB

AHRQ Quality Indicators - 1

- Use hospital administrative data to:
  - Assess effects of programs and policies
  - Guide future policy
  - Measure outcomes, access to care, utilization, and costs
- HCUP QIs (early '90s)
  - Expanded and refined
  - PQIs and PSIs to be included in NHQR 2004

AHRQ Quality Indicators - 2

- Prevention Quality Indicators (16)
  - Ambulatory care-sensitive conditions
- Patient Safety Indicators (20)
  - Post-surgical, -childbirth adverse events
- Inpatient Quality Indicators (29)
  - Procedure/Condition Volume, Mortality
  - Utilization

Prevention Quality Indicators

- Bacterial pneumonia
- Dehydration
- Pediatric gastroenteritis
- UTI
- Perforated appendix
- Low birth weight
- Angina w/o procedure
- CHF
- Hypertension
- Adult asthma
- Pediatric asthma
- COPD
- Diabetes short-term complication
- Diabetes long-term complication
- Uncontrolled diabetes
- LEA (DM patients)

Prevention Quality Indicators (NHQR)

Table 8.
Pediatric asthma admissions (excluding obstetric and neonatal admissions and transfers from other institutions) per 100,000 population age less than 18 years (PQI 4),
by State, 2001

State	Adjusted Rate a/ Estimate	Standard error	P-value: State relative to Nation
Total U.S.	186.601	17.015	
A	120.575	2.827	0.000
AA	187.291	2.401	0.944
AB	125.625	6.407	0.001
AC	176.938	2.832	0.489
AD	170.636	4.433	0.166
AE	176.096	4.668	0.478
AF	159.413	3.730	0.094
AG	149.062	1.260	0.020
AH	114.738	2.845	0.000
B	215.682	7.423	0.145
C	134.669	2.539	0.002
D	241.211	7.257	0.000
E	83.211	7.257	0.000
F	72.123	3.060	0.000
G	192.280	2.266	0.830
H	199.400	3.754	0.330
J	274.852	3.422	0.000
K	195.887	8.927	0.705
L	156.887	4.287	0.000
M	96.324	2.744	0.000
N	188.597	3.163	1.000
O	315.306	2.513	0.000
P	208.117	3.260	0.000
Q	88.744	4.521	0.000
R	257.548	3.311	0.000
S	129.228	3.343	0.061
T	221.439	2.908	0.197
U	189.689	3.405	0.283
V	216.772	4.017	0.120
W	106.210	8.815	0.000
X	279.381	5.438	0.000
Y	158.983	6.098	0.107
Z	106.255	3.931	0.001

Source: Agency for Healthcare Research and Quality's Healthcare Cost and Utilization Project (HCUP). State estimates are from the State Inpatient Databases (SID), and not all States participate in HCUP. Estimates for the total U.S. are from the Nationwide Inpatient Sample, which is drawn from the SID and weighted to give national estimates. For relevant denominator sources, see Methods section.

a/ Rates are adjusted by age and gender, using the total U.S. population for 2000 as the standard population.

NOTE: For KS, rate biased upward because data element was not available to exclude transfers.

Pediatric Asthma Cases per 100,000 Population (PQI 4) by Patient ADD Kentucky, 2003

Patient ADD	Total Ped. Asthma Cases	KY 2002 Population <18 (est.)	Ped. Asthma Rate* per 100,000 Population	SE_{Rate}	p value
01-PURCHASE	430	43091	997.9	48.1	0.000
02-PENNYRILE	128	53413	239.6	21.2	0.020
03-GREEN RIVER	158	51845	304.8	24.2	0.570
04-BARREN RIVER	176	62724	280.6	21.2	0.645
05-LINCOLN TRAIL	100	65401	152.9	15.3	0.000
06-KENTUCKIANA	456	218065	209.1	9.8	0.000
07-NORTHERN KY	91	106324	85.6	9.0	0.000
08-BUFFALO TRACE	23	13785	166.8	34.8	0.000
09-GATEWAY	24	17847	134.5	27.4	0.000
10-FIVCO	170	31312	542.9	41.6	0.000
11-BIG SANDY	255	37580	678.6	42.5	0.000
12-KY RIVER	185	28081	658.8	48.4	0.000
13-CUMBERLAND VALLEY	399	60146	663.4	33.2	0.000
14-LAKE CUMBERLAND	100	46160	216.6	21.7	0.001
15-BLUEGRASS	206	162305	126.9	8.8	0.000
KENTUCKY	2901	998079	290.7	5.4	

*Unadjusted rate

Data source: Kentucky Inpatient Hospitalization Claims, 2003
Extraction criteria (corresponding to AHRQ/HCUP Prevention Quality Indicator 4)
1) Numerator: Discharges with ICD9-CM codes for asthma in primary diagnosis field and under 18 years of age; (OB and neonate cases and transfers from other institutions excluded)
2) Denominator: Kentucky under 18 population, 2002 (est.), Kentucky State Data Center.

Patient Safety Indicators

- Accidental puncture or laceration
- Complications of anesthesia
- Death in low-mortality DRGs
- Decubitus ulcer
- Failure to rescue
- Foreign body left during procedure
- Iatrogenic pneumothorax
- Postop. hemorrhage or hematoma
- Postop. hip fracture
- Postop. psych. and metabol. derangement
- Postop. PE or DVT
- Postop. resp. failure
- Postop. sepsis
- Postop. wound dehiscence
- Selected infections due to medical care
- Transfusion reaction
- Birth trauma – injury to neonate
- OB trauma – Caesarean delivery
- OB trauma – vaginal delivery with instrument
- OB trauma – vaginal delivery w/o instrument

Patient Safety Indicators (NHRQ)

Table 8.
Obstetric trauma per 1000 Cesarean deliveries (PSI 20),
by State, 2001

State	Adjusted Rate a/ Estimate	Standard error	P-value: State relative to Nation
Total U.S.	5.715	0.172	
A	9.283	0.885	0.000
AA	6.658	0.387	0.410
AB	6.818	1.428	0.403
AC	5.610	0.410	0.819
AD	4.140	0.324	0.003
AE	6.155	0.778	0.573
AF	7.332	0.586	0.023
AG	4.394	0.217	0.000
AH	7.172	0.579	0.016
B	3.992	1.057	0.108
C	10.256	0.596	0.000
D	6.545	0.509	0.122
E	7.372	2.335	0.479
F	4.939	0.834	0.362
G	4.540	0.272	0.000
H	5.817	0.518	0.852
J	7.423	0.637	0.210
K	7.582	1.397	0.165
L	7.371	0.428	0.000
M	5.586	0.766	0.870
N	7.767	0.451	0.009
O	4.777	0.353	0.004
P	5.670	0.458	0.949
Q	7.531	1.071	0.914
R	5.875	0.596	0.949
S	9.372	0.693	0.000
T	7.565	0.437	0.000
U	5.748	0.559	0.909
V	5.244	0.609	0.457
W	4.757	1.397	0.497
X	5.432	0.655	0.876
Y	5.428	0.852	0.412
Z	6.058	0.825	0.684

Source: Agency for Healthcare Research and Quality's Healthcare Cost and Utilization Project (HCUP). State estimates are from the State Inpatient Databases (SID), and not all States participate in HCUP. Estimates for the total U.S. are from the Nationwide Inpatient Sample, which is drawn from the SID and weighted to give national estimates. For relevant denominator sources, see Methods section.
a/ Rates are adjusted by age.

Obstetric Trauma per 1000 Cesarian Deliveries (PSI 20), by Facility ADD
Kentucky Hospitals, 2003

Facility ADD	Total OB Trauma Cases	Total C-Sections	OB Trauma Rate* per 1000 C-Sections	SE_{Rate}	p value
01-PURCHASE	1	732	1.4	1.4	0.536
02-PENNYRILE	3	686	4.4	2.5	0.403
03-GREEN RIVER	7	708	9.9	3.7	0.042
04-BARREN RIVER	0	921	0.0	0.0	1.000
05-LINCOLN TRAIL	0	661	0.0	0.0	1.000
06-KENTUCKIANA	7	3690	1.9	0.7	0.674
07-NORTHERN KY	4	1433	2.8	1.4	0.703
08-BUFFALO TRACE	1	106	9.4	9.4	0.446
09-GATEWAY	0	221	0.0	0.0	1.000
10-FIVCO	0	354	0.0	0.0	1.000
11-BIG SANDY	2	635	3.1	2.2	0.687
12-KY RIVER	0	251	0.0	0.0	1.000
13-CUMBERLAND VALLEY	0	794	0.0	0.0	1.000
14-LAKE CUMBERLAND	0	551	0.0	0.0	1.000
15-BLUEGRASS	9	3439	2.6	0.9	0.892
KENTUCKY	34	15182	2.2	0.4	

*Unadjusted rate

Data source: Kentucky Inpatient Hospitalization Claims, 2003
Extraction criteria (corresponding to AHRQ/HCUP Patient Safety Indicator 20)
1) Numerator: Discharges with ICD9-CM codes for obstetric trauma in any diagnosis or procedure field;
2) Denominator: All Cesarian delivery discharges.

Inpatient Quality Indicators - 1

- Measured at hospital level
  - Volume Indicators
    - Counts of procedures; evidence suggests higher volume linked to better outcomes
    - E.g. Ped. heart surg., CABG, PTCA, …
  - Mortality indicators – procedures and conditions
    - Vary across institutions; high mortality may be associated with quality of care deficiencies
    - E.g. AMI mortality rate, CABG mortality rate, …

Inpatient Quality Indicators - 2

- Utilization indicators
  - Significant variability across institutions; high/low rates likely to represent inappropiate or inefficient delivery of care
  - E.g. C-Section delivery rate, Bilateral cardiac cath. rate, …
- Geographic area utilization indicators
  - Wide variation across areas; substantial inappropriate use
  - E.g. Hysterectomy rate, Laminectomy or spinal fusion area rate, …

Inpatient Quality Indicators - 3

- No current plans to add IQIs to NHQR
- IQIs useful for local comparisons
  - Hospital to hospital or hospital to group of similar hospitals
  - Hospital or group to state average

CABG Volume (IQI 5) and Severity-Adjusted Mortality Rate (IQI 12)
Kentucky Hospitals, 2002

Hospital	Total Deaths	Total Cases	Actual Mortality Rate	Total Expected Deaths	Expected Mortality Rate*	Standardized Mortality Ratio* (Actual/Expected)	Severity Adjusted Rate*	SE (Sev Adj Rate)	Lower 95% C.L.	Upper 95% C.L.	t statistic**	p value**
NNN	11	198	5.56%	6.1	3.08%	1.80	5.53%	1.67%	2.26%	8.80%	1.467	0.142
FFF	7	139	5.04%	4.5	3.26%	1.54	4.73%	1.79%	1.23%	8.24%	0.926	0.355
BBB	11	251	4.38%	7.7	3.06%	1.43	4.40%	1.33%	1.80%	6.99%	0.991	0.322
KKK	21	552	3.80%	17.7	3.21%	1.18	3.63%	0.79%	2.08%	5.19%	0.691	0.490
UUU	10	235	4.26%	8.5	3.62%	1.17	3.80%	1.14%	1.37%	5.84%	0.463	0.643
JJJ	48	1379	3.48%	44.6	3.23%	1.08	3.30%	0.48%	2.37%	4.24%	0.456	0.648
CCC	17	489	3.48%	15.9	3.25%	1.07	3.28%	0.80%	1.72%	4.85%	0.264	0.792
SSS	18	636	2.83%	17.7	2.79%	1.02	3.12%	0.73%	1.68%	4.56%	0.063	0.950
RRR	42	1362	3.08%	43.3	3.18%	0.97	2.97%	0.46%	2.07%	3.87%	-0.190	0.849
GGG	44	1417	3.11%	47.5	3.35%	0.93	2.84%	0.43%	2.00%	3.68%	-0.478	0.632
AAA	12	482	2.49%	13.8	2.87%	0.87	2.98%	0.77%	1.15%	4.16%	-0.516	0.606
WWW	4	229	1.75%	5.4	2.38%	0.73	2.25%	1.13%	0.05%	4.46%	-0.713	0.476
PPP	1	33	3.03%	1.7	5.20%	0.58	1.79%	1.79%	0.00%	5.29%	-0.711	0.477
MMM	4	364	1.10%	7.2	1.97%	0.56	1.71%	0.86%	0.03%	3.39%	-1.548	0.122
TTT	1	109	0.92%	2.2	2.04%	0.45	1.38%	1.38%	0.00%	4.08%	-1.217	0.224
VVV	1	264	0.38%	5.5	2.07%	0.18	0.56%	0.56%	0.00%	1.66%	-4.227	0.000
DDD		1	0.02%	0.1	7.78%	0.00	0.00%					
EEE		22	0.00%	0.4	1.69%	0.00	0.00%					
HHH		20	0.00%	0.9	4.27%	0.00	0.00%					
XXX		31	0.00%	1.2	3.96%	0.00	0.00%					
KENTUCKY	252	9213	3.07%				3.07%	0.19%	2.68%	3.45%		

*Severity adjustment based on indirect standardization over four levels as assigned by the Refined DRG methodology of Health Systems Consultants, Inc.
**t=(State rate-Facility rate)/ (SE(State rate)^2+SE(Facility rate)^2), p value=2*Prob(Std. Normal Variate>|t|).
NHDR Methods Description, Deliverable #181, Contract No. 290-00-0004, June 6, 2003 (Medstat)
Data source: Kentucky Inpatient Hospitalization Claims, 2002
Extraction criteria (corresponding to AHRQ/HCUP Inpatient Quality Indicators 5 and 12)
1) Age >= 40;
2) Discharges with ICD9-CM codes 36.10 through 36.19 in any (of six) procedure fields;
3) MDC 14 (Pregnancy, childbirth, and puerperum), MDC 15 (Newborns and other neonates), and patients transferring to another short-term hospital excluded.

Value of Quality Indicators

- Identify best practices
- Assess effects of program and policy choices
- Understand community access and utilization of health care
- Optimize health care delivery and improve patient outcomes

http://www.qualityindicators.ahrq.gov/data/hcup/qinext.htm

- **Mapping the Availability and Access to Health Services in Kentucky**
  – Timothy S. Hare & Holly R. Barcus, Institute for Regional Analysis and Public Policy, Morehead State University

Mapping the Availability and Access to Health Services in Kentucky

Timothy S. Hare & Holly R. Barcus
Institute for Regional Analysis & Public Policy
Morehead State University

Goals

- Build a spatial database of
  - Consumer health care usage
  - Service provider locations
- Pinpointing the geographic distribution of demand
- Pinpointing the corresponding service provider locations

Research Questions

- What hospitals are people using?
  - for treatment for particular conditions
  - for particular procedures
- Where are particular services available?
- How far are people traveling?
  - Are facilities distributed optimally?
  - Are some areas underserved?
- Where are populations with particular needs located?

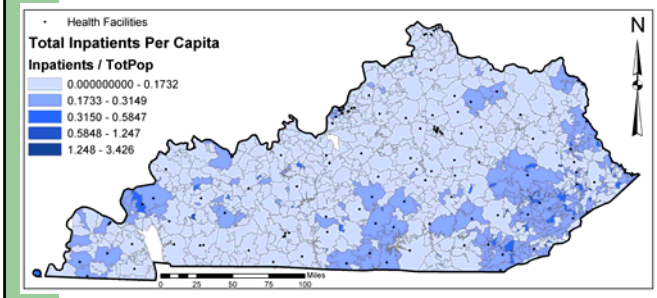
Specific Tasks

- Map service availability
  - Total & By procedure
- Map facility service areas
  - Total & By procedure
- Examine service area boundaries & overlap
- Map service usage
  - By sex and age of patients
  - By patient travel time to facilities
- Calculate travel cost (time) between
  - zip code zones &
  - inpatient centers

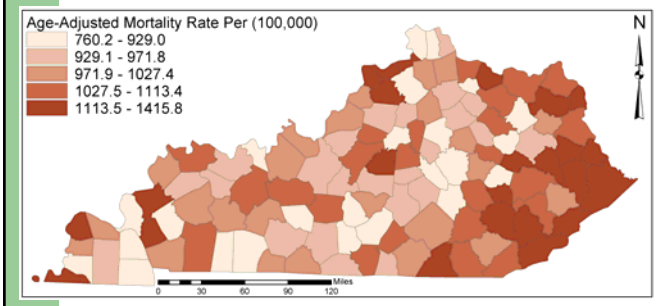
Data

- 2002 Kentucky Hospital Inpatient Use Database
- Kentucky Inpatient Facilities
- AHA Healthcare QuickDisc
- KY Transportation Cabinet's State maintained and local road centerlines

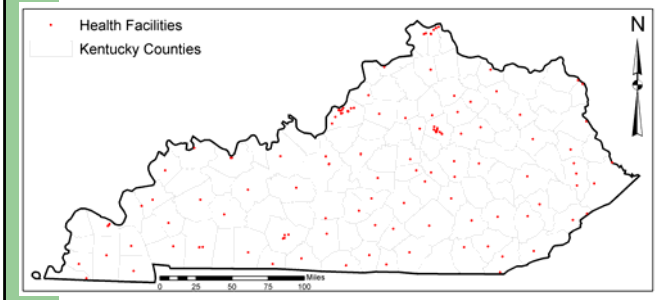
Total 2002 Inpatients Per Capita



Total 2000 Mortality Rates

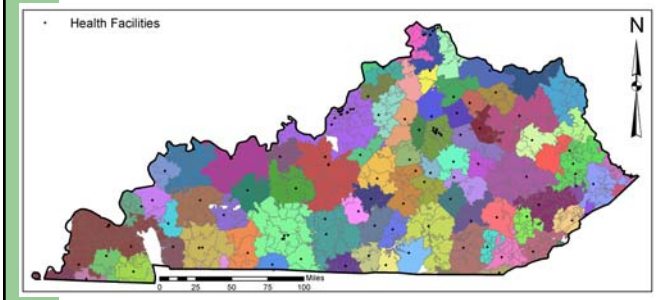


Kentucky Inpatient Facilities

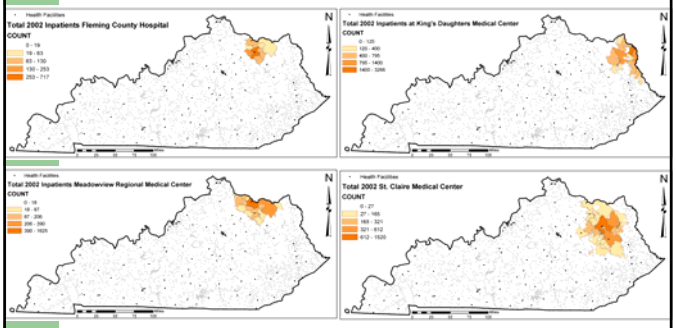


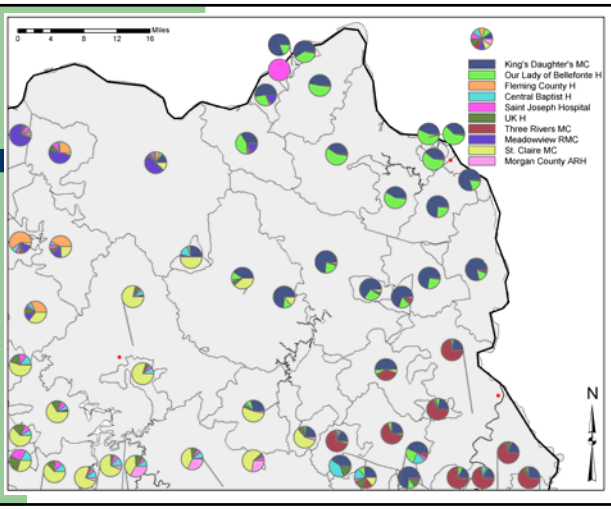
Hospital Service Areas

Source: The Dartmouth Atlas of Health Care 1999

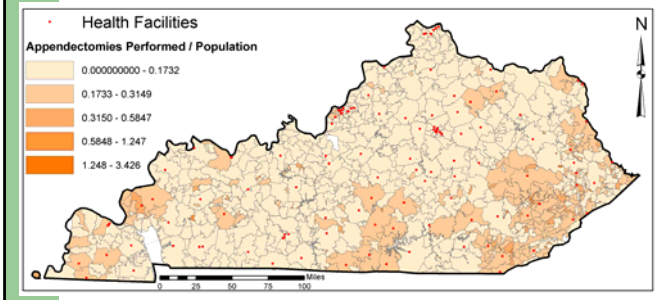


2002 Inpatient Service Areas

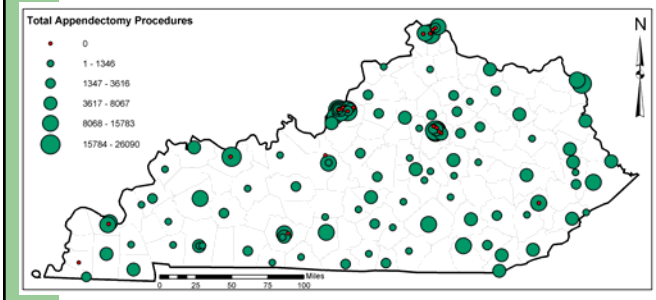




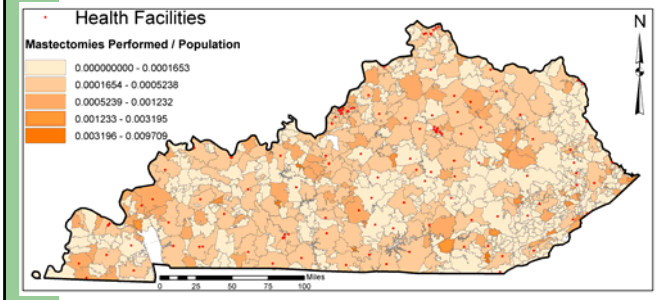
Appendectomies Per Capita



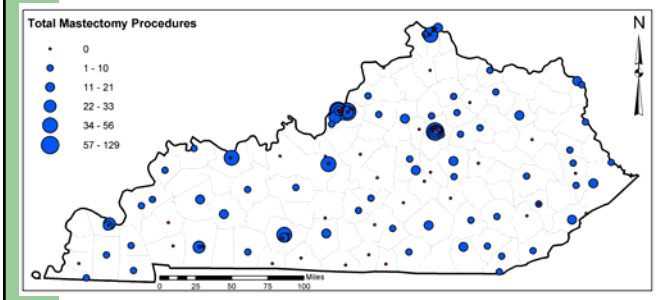
Number of Appendectomies Performed by Hospital



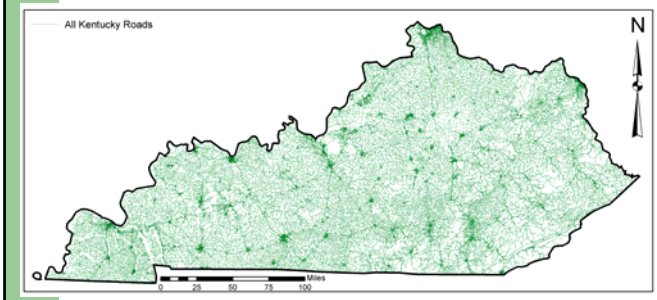
Mastectomies per Capita



Number of Mastectomies Performed by Hospital



KY Transportation Network



Further Potential Topics

- Variability in patient outcomes
  - By facility
  - By procedure
- Variability in costs of procedures
  - By procedure
- Variation due to:
  - Age, sex, etc.

The End

Thank You

2002 Hospital Inpatient Use Database

- 622,498 events
- Mapped to zip code zones
- ICD9CM – diagnoses & procedures
- Major Diagnostic Group (MDG)
- Diagnosis Related Group (DRG)
- Miscellaneous Categories
  - Age groups, discharge status, pay source, & sex

Project Stages

- Data compilation & processing
- Calculate inpatient facility use zones
- Select particular topics to investigate
  - Medical conditions
  - Procedures
- Calculate travel cost (time) between
  - zip code zones &
  - inpatient centers

4.2. October 8, 2004

HEALTH DATA ADVISORY COMMITTEE
October 8, 2004
9:00 a.m.

MEMBERS PRESENT:

Ben Yandell Norton Healthcare	Paul Sinkhorn Jewish Hospital	John Lewis, M.D. Health Care Excel
Carol Ireson UK Center for Health Services Management and Research	Ronald Crouch University of Louisville Data Center	Chuck Warnick Baptist Hospital
Joyce Robl Kentucky Birth Surveillance Registry	Bob Lucas King's Daughters Medical Center	Paige Clements Kentucky Hospital Association
Lou Kurtz KY Dept for Mental Health And Mental Retardation	George Robertson Department for Public Health	

MEMBERS ABSENT:

Sherill Cronin, Ph.D. Bellarmine University	Larry Bone Four Rivers Healthcare Purchasing Alliance	Jerry Henry

STAFF: Department for Public Health, Health Policy Development Branch
Mark Fazey, Martha Graves, Charles Kendell
Sheena Lewis, Beth Sanderson, Tricia Williams

GUESTS: Mike Singleton, Kentucky Injury Prevention and Research Center
Jenny Qin, Kentucky Injury Prevention and Research Center
Marie Alagia Cull

CALL TO ORDER

Charles Kendell called the meeting to order in the Salato Wildlife Center.

APPROVAL OF MINUTES

Minutes from the meeting of July 9, 2004 were approved without change.

WELCOME AND INTRODUCTIONS

Charlie welcomed the committee and guests.

PRESENTATION

Mike Singleton, Injury Surveillance Coordinator with the Kentucky Injury Prevention and Research Center (KIPRC), presented information analyzing motor vehicle crash outcomes by linking crash data and hospitalization data.

Interesting points of Mike's presentation were:

- Kentucky Crash Outcome Data Evaluation System (CODES) is a program originally funded by the National Highway Traffic Safety Administration (NTHSA). Its purpose was to link motor vehicle traffic crash data with various related datasets in order to provide more complete information on the contributing factors and outcomes of MVC's.
- Though initial funding ended in 2001, the program was continued under CODES Data Network program after that time.
- More information can be found about the CODES program at the following website: http://www-nrd.nhtsa.dot.gov/departments/nrd-30/ncsa/codes.html
- Passenger type vehicles are the main focus of this study.
- Men are more likely to be involved in a crash; however, women are more likely to be injured.

Ben Yandell asked if the estimated speed of the vehicle(s) involved in a car crash is taken into consideration. Mike stated that the posted speed limit is taken into consideration rather than the estimated vehicle speed. Dr. John Lewis asked for the definition of external injury. External injury is defined as external abrasions.

In response to a record year of fatalities, the Kentucky Transportation Cabinet created the Highway Safety Leadership Team. Julia Costich, KIPRC director, and Charlie Kendell are members of this team.

Carol Ireson asked if ethnicity is collected in these records. Ethnicity is only listed on the death certificate, not on the accident report. George Robertson responded that the only ethnicity reported is Hispanic/Non-Hispanic. Race is collected separately. Ron Crouch mentioned that the reporting of minorities would be a major undertaking. Paul Sinkhorn complimented Mike on his presentation. The group was reminded that emergency department data collection is currently being piloted by hospitals on a voluntarily basis.

Ron Crouch stated that new census estimates became available last Thursday. 80+ age group shows the only growth. 80+ male – four times faster population growth – unexpected.

OLD BUSINESS

Charles Kendell, Beth Sanderson and Mark Fazey met with ASC representatives for Multi-specialty in Corbin, as well as Pain Management ASC's. Were able to determine that the ASC's do have the data and the systems to capture the data in order to send it to us. Some facilities submit using the HCFA 1500, while others submit using UB 92's (8 fields collected: primary diagnosis, procedure code, payor source. Pain Management submit using 1500's only. ASCs will start submitting data in January. Preliminary data shows that people are driving greater distances to be treated for pain when there are hospitals that can perform the same function and pain is the #1 prevailing issue.

NEW BUSINESS

Hospital Data – public but internal use data put on internal server.

Sri working with primary users.

AHRQ – taking strong focus in Quality area. New National Quality Measures Clearinghouse.

Major involvement last three years

Healthcare Utilization project inpatient data for 38 states that are members of project

They have our 2003 data, by January, '03 data should be added.

Project Overview Notebook – outlines project. Also available on CD.

Every Kentucky border state except Indiana is submitting

Membership gives us unique opportunity for comparison with other states.

How to interpret data – first, we got together to "argue" about data

Charlie – Data User's Agreement

Revise agreement to encompass "commercial" users

Sense of group last meeting – inevitable that these entities receive our data.

Current agreement – data are available for analysis, except . . .

Protect quality of effort

Produce report card – not to be used commercially – Medstat, leap frog

Remove highlighted area of Data User's Agreement

Create commercial dataset

Remove hospital names

Remove reference to hospitals altogether.

Charlie asked for the group's assistance regarding this issue.

Ben stated that his mindset is that the purpose of the dataset agreement is to make the data available so others would know what is going on with hospitals. He also said that the public has the right to know what is going on with hospitals. His suggestion was to turn the data loose and deal with consequences later. He reasoned that if we do not make the data available, the public will use something else that we trust even less.

Dr. John Lewis – RHQDAPU – Reporting Hospital Quality Data Annual Payment Update – January 100% of non-acute care hospitals will be reporting.

Chuck Warnick suggested that if we are going to release this information, make it mandatory that everyone report (doctors, hospitals, pain clinics, etc.). If they do not report, they cannot practice. His thoughts are to put some teeth behind it or don't bother. Charlie stated that this would not be practical. Chuck asked what is to stop hospitals from reporting because they don't approve of the way that the data is released.

Dr. Lewis – report which hospitals have not reported

99% compliance – Paige Clements
Ben - if external pressure is too low, not submit and take the consequences.
Paul Sinkhorn – agree with Ben on inevitability but data will be misused.
Purpose of committee – better shape to deal with now than nine years ago
If we get it out there first, we can deal with it later.
Legislator – cost, quality, and outcome, publish data that the public can understand

Consumer-oriented – original intent
Next step – with correct use of this data.
Paige – how hospitals will be affected should this information be made public.
Discuss at board meeting in January.
Quality – Public will misinterpret data without risk adjustment
Ben – the worst that could happen is already happening
Not afraid of it anymore. Step up to the plate and clean it up a bit.
Data is going to get out there.
Wayne Higgins – 1993 Healthcare Reform – Pennsylvania was looked upon as model. Still looked at as model. Name names, include caveats (us)

Releasing elements – lose the power of analysis

Ben – Remove provider identifiers section in agreement and let it go.

Produce revenue, change cost, and redo regulation

We have little or no control over where the funds go

Redo data agreement

Discussion with KHA

Discussions within our own cabinet

Nothing can be done until after KHA data Committee meeting

Chuck – funds could be used to create a website for (?)

Ron Crouch – add distributed flyer information from Ron Crouch

1-75 – busiest commercial highway in the United States

Dr. Lewis congratulated Ben Yandell on his publication in the Louisville Medicine Journal.

COMMITTEE HOUSEKEEPING

Charlie asked members of the group if they would prefer to continue meeting at the Salato Wildlife Center in 2005. Group consensus was to continue meeting at the Game Farm. Charlie stated that the meetings would be moved backed to Thursday in order for Dr. Kraig Humbaugh to be able to attend that Data Advisory Committee Meetings. Also, due to meeting room availability, the committee would have to meeting in the afternoons after the January meeting. The meeting schedule for 2005 is as follows: January 13, 2005 at the Game Farm's Salato Wildlife Center, Frankfort, Kentucky from 9am - 11:30 am, April 14, from 1:30 pm to 3:30 pm, July 14, from 1:30 pm to 3:30 pm, and October 13, from 1:30 pm to 3:30 pm.

4.2.1 Presentation

- **Injury Risk in Severe Motor Vehicle Traffic Crashes in Kentucky, 2000-2002 – Mike Singleton & Jenny Qin, KIPRC**

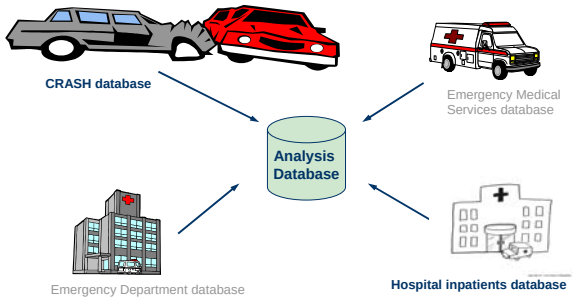
Injury Risk in Severe Motor Vehicle Traffic Crashes in Kentucky, 2000-2002

Data Advisory Committee Meeting

Salato Wildlife Education Center

October 8, 2004

Kentucky Crash Outcome Data Evaluation System (CODES)



Kentucky CODES

- Original funding began in October, 1998
- Presented concept to DAC in March, 2000
- Funding continued under CODES Data Network program beginning in 2001; currently funded for 1 FTE through March, 2008
- More information about the CODES program:

  http://www-nrd.nhtsa.dot.gov/departments/nrd-30/ncsa/codes.html

Public Health Impact of MVC's in KY

- **2000-2003:** 887 deaths per year on KY roads
- **2000-2002:** At least 3,662 *of those listed on KY crash reports* were hospitalized in KY per year
  - 1,107 of those were diagnosed with traumatic brain injuries
- **2000-2002:** Estimate 50,000 people treated and released annually from ED's in Kentucky (based on CDC's WISQARS system)
- **2000-2002:** Hospital charges: $91.5 million per year
- **2000-2003:** Economic costs: estimated $2 billion per year (Nat'l Safety Council)
- **2000-2003:** Comprehensive costs: estimated $5.7 billion per year (Nat'l Safety Council)

Public Health Impact of MVC's in KY
Mental Health

From *Shocks to the System* (Laurence Miller, Ph.D., 1998):

- "Car accidents are a major cause of post-traumatic stress disorder, and accident survivors account for a large share or referrals to both chronic pain centers and anxiety clinics (Blanchard et al., 1995a, 1995b)."
- "… for some accident victims, avoidance and numbing symptoms tend to decline within six months following an accident, but hyperarousal symptoms tend to persist." (Blanchard et al., 1995a, 1995b)
- Experience of previous trauma may be a predisposing factor. (Blanchard, Hickling, Taylor, Loos and Gerardi (1994)
- "This is a largely ignored population in need of assistance."

Kentucky's CRASH Database

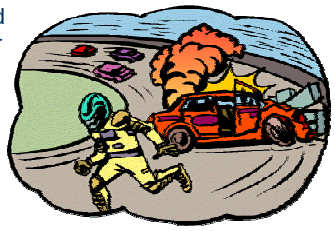
- Crashes occurring on public roadways in Kentucky
- Injury or property damage of at least $500
- Data collected on vehicle occupants, motorcyclists, pedestrians, bicyclists, ATV riders, …
- Person, vehicle, roadway, and environmental factors surrounding the crash

Vehicle Damage and Injury

- Most vehicle occupants who were killed (91%) or hospitalized (72%) in MVC's were traveling in vehicles that were severely damaged by the crash

Vehicle Damage and Injury

- HOWEVER… most people (91%) who were traveling in a vehicle that was severely damaged in a crash were neither killed nor hospitalized.



Possible Risk and Protective Factors
Individual-Level Factors

- Age
- Gender
- Seat belt use
- Driver vs. passenger
- Ejected from the vehicle
- Driver suspected DUI
- Seated in front vs. rear

Possible Risk and Protective Factors
Vehicle-Level Factors

- Vehicle type (passenger car vs. light truck)
- Vehicle year (older vehicles less safe?)
- Vehicle caught fire

Possible Risk and Protective Factors
Crash-Level Factors

- Collision with a fixed object
- Head-on collision
- Single vehicle
- Intersection crash
- Vehicle overturned
- Location 1st event

Possible Risk and Protective Factors
Roadway and Environmental Factors

- Roadway type (state, federal, interstate, local, …)
- Collision time
- Rural/urban crash county
- Lighting conditions
- Weather (rain, snow/ice, sun, …)
- Number of lanes
- Posted speed limit

After Variable Clustering

- Age
- Gender
- Restraint
- DUI
- Ejection
- Speed limit
- Rollover
- Fixed object
- Head-on collision
- Driver/pass
- Roadway type
- Fire

Injury Severity: AIS-ISS Score

- "Each injury is
  1. assigned an Abbreviated Injury Scale (AIS) score, and
  2. allocated to one of six body regions (Head, Face, Chest, Abdomen, Extremities (including Pelvis), External).
- Only the highest AIS score in each body region is used.
- The 3 most severely injured body regions have their score squared and added together to produce the ISS score."

Abbreviated Injury Scale (AIS)

AIS Score	Injury severity ("threat to life")
1	Minor
2	Moderate
3	Serious
4	Severe
5	Critical
6	Unsurvivable

AIS-ISS Score: Example

Region	Injury Description	AIS	Square Top Three
Head & Neck	Cerebral Contusion	3	9
Face	No Injury	0	
Chest	Flail Chest	4	16
Abdomen	Minor Contusion of Liver Complex Rupture Spleen	2 5	25
Extremity	Fractured femur	3	
External	No Injury	0	
		Injury Severity Score:	**50**

AIS-ISS Score: Comments

• “The ISS score takes values from 0 to 75. If an injury is assigned an AIS of 6 (unsurvivable injury), the ISS score is automatically assigned to 75. The ISS score is virtually the only anatomical scoring system in use and correlates linearly with mortality, morbidity, hospital stay and other measures of severity.

• It's weaknesses are that any error in AIS scoring increases the ISS error, many different injury patterns can yield the same ISS score and injuries to different body regions are not weighted. “

ISS Categories (Trauma Resource Network)

Category	ISS
Minor	0-8
Moderate	9-14
Severe	15-24
Critical	>24

Our Injury Severity Outcome Variable

Value	Meaning	Source
1	Killed	Police report or HDD
2	Hospitalized, moderate-to-critical injuries (ISS>14)	HDD
3	Hospitalized, mild injuries (ISS 0-14)	HDD
4	Injured but not hospitalized	Police report
5	No apparent injury	Police report

Results
Individual-Level Risk Factors

Factor	Increased Risk of More Severe Injury (Odds Ratio)	p-value
Age	1.013 per year (1.012-1.014)	<0.0001
Female gender	1.62 (1.56-1.68)	<0.0001
Unrestrained	3.38 (3.20-3.55)	<0.0001
Ejected	6.50 (5.68-7.43)	<0.0001
Driver suspected of DUI	1.43 (1.31-1.55)	<0.0001

Results
Vehicle-Level Risk Factors

Factor	Increased Risk of More Severe Injury (Odds Ratio)	p-value
Vehicle fire	2.85 per year (2.13-3.80)	<0.0001

Results
Crash-Level Risk Factors

Factor	Increased Risk of More Severe Injury (Odds Ratio)	p-value
Head-on collision	1.93 per year (1.82-2.05)	<0.0001
Collision with a fixed object	1.35 (1.29-1.41) Ex: embankment, tree, utility pole, mailbox, culvert, guard rail end, …	<0.0001
Vehicle overturned	1.45 (1.33-1.57)	<0.0001

Results
Roadway & Environmental Risk Factors

Factor	Increased Risk of More Severe Injury (Odds Ratio)	p-value
Federal- or state-maintained roadway	1.26 (1.21-1.31)	<0.0001
Posted speed limit 55+ mph	1.36 (1.30-1.41)	<0.0001

Government Agencies with a Stake in Motor Vehicle Traffic Safety in KY

- Kentucky State Police
- Kentucky Transportation Cabinet
- Kentucky Cabinet for Health and Family Services

Agency Goals
Kentucky State Police

- Governor's Highway Safety Program
  - Impaired driving program
  - Occupant protection program (restraint use)
  - Police traffic services program (speed-related crashes)

Agency Goals
Kentucky Transportation Cabinet

- Strategic plan: *Paths to Progress*
  - Emphasis area: "Improve Safety"
    - Run-off-road and crossover crashes
    - Intersection crashes
  - *Drive Smart!* safety program

Agency Goals
Kentucky Cabinet for Health and Family Services

- Healthy Kentuckians 2010, Injury and Violence Prevention chapter
  - Restraint use
  - Helmet use
  - Graduated Driver Licensing

Current Developments
Kentucky Transportation Cabinet

- Executive Highway Safety Leadership Team
- Traffic Records Coordinating Committee

4.3 January 13, 2005

The Data Advisory Committee meeting for this date was cancelled because of a conflict with the Annual Meeting of the Kentucky Hospital Association. An unofficial meeting of the Advisory Committee members present was convened to distribute minutes from the October 8, 2004 meeting for review. No official business was conducted.

4.4. April 14, 2005

HEALTH DATA ADVISORY COMMITTEE
Thursday, April 14, 2005, 1:30 PM – 3:30 PM, Salato Wildlife Center

MEMBERS PRESENT:

Ben Yandell Norton Healthcare	Paul Sinkhorn Jewish Hospital	John Lewis, M.D. Health Care Excel
Larry Bone Four Rivers Healthcare Purchasing Alliance	Chuck Warnick Baptist Hospital	George Robertson Department for Public Health
Joyce Robl Kentucky Birth Surveillance Registry	Jim Berton King's Daughters Medical Center	Paige Franklin Kentucky Hospital Association
Lou Kurtz KY Dept for Mental Health And Mental Retardation		

MEMBERS ABSENT:

Sherill Cronin, Ph.D. Bellarmine University	Ronald Crouch University of Louisville Data Center	Jerry Henry
Carol Ireson UK Center for Health Services	Lou Kurtz KY Dept. for Mental Health	

STAFF: Department for Public Health, Health Policy Development Branch
Mark Fazey, Martha Graves, Charles Kendell
Sheena Lewis, Beth Sanderson, Jodie Weber
Matt Katirai

GUESTS: Doug Thoroughman, Lisa Gannoe, Maria A. Cull, Humana H.C.

CALL TO ORDER

Charles Kendell called the meeting to order at 1:35. Jim Berton, Director of Planning, King's Daughter's Medical Center, was introduced as the newest member of the committee. Jim will serve out the unexpired term of Bob Lucas, also of King's Daughters.

WELCOME AND INTRODUCTIONS

Charlie welcomed the committee and guests.

APPROVAL OF MINUTES

Minutes from the meeting of October 8, 2004 were approved with the following revisions:

- (Page 5) Dr. John Lewis suggested … publish Reporting Hospital Quality Data Annual Payment Update in January in which 100% of ~~non-~~acute care hospitals will be reporting.
- (Page 5) Paul Sinkhorn agreed … Releasing only data elements to the public ~~will cause the loss of the power to perform analysis.~~ is a lost opportunity to provide guidance and promote objective analysis.

PRESENTATION

Risk Assessment Planning: A New Look, Matt Katirai and Jodie Weber, CHFS/DPH/EPI-HPAB

Matt and Jodie presented a chemical spill scenario for Lexington, KY and its effect on health care facilities in the vicinity of the spill (based on an actual incident in Graniteville, SC, January 10, 2005.) The geographic component of hospitalization data was used with diagnosis, procedure, and population information to model the potential effects of a chlorine gas spill on the nearby community. Emergency treatment, patient evacuation and transportation to care centers outside the danger area, and population at-risk were addressed.

The presentation generated several suggestions for more accurate modeling and broader application:

- Consider hazardous material transportation via river barges (Larry Bone) and interstates (Ben Yandell)
- Consider the impact of observation patients on hospitals in responding to such an incident (Chuck Warnick)
- Consider surge capacity of facilities outside danger area, especially in Eastern and South Central Kentucky (Beth Sanderson)
- Consider time of incident and seasonal level of inpatient population, e.g. flu season (John Lewis)
- Consider using mortality risk as to measure difficulty in moving or transporting patients (Ben Yandell)
- Consider decontamination capabilities of hospitals receiving transferred patients (Jody Weber, Chuck Warnick)

- Consider EMS involvement in transfer situations (Jodie Weber)
- Charlie Kendell noted that this scenario pointed out the potential impact of everyday dangers.

OLD BUSINESS

- Hospital "report cards"- Ben Yandell, Norton Healthcare

Ben presented an overview of the recently released Norton Healthcare Quality Report section of Norton's website. Ben stated that reporting hospital quality data to the public would establish public accountability, which in turn will improve the data, influence the definition and use of quality indicators, and ultimately improve Norton's patient care. He noted that early decisions to use clearly defined, evidence-based, well-researched measures ultimately resulted in incorporating complete lists of indicators and practices from many respected national agencies (e.g. JAHCO, AHRQ/HCUP, etc.; 174 indicators and 49 practices in all). Balanced comparisons using recognized standard measures can thus be made among facilities.

In the discussion which followed, Doug Thoroughman asked if the source data were UB92 claims only; Ben responded that indicators are constructed from several different data sets and are not exclusively UB92-based.

John Lewis stated that the high sepsis rate could be a result of knowing the higher pay rate for this code. John felt the sepsis code was probably a bad choice for this project. Ben also stated that he believes clinicians will continue to do the right thing and document with care as usual.

Charlie Kendell asked Ben what the response has been from the public about this release of information to the public. Ben said one patient came to the doctor's office with the report – this could improve patient care.

Paul Sinkhorn asked how Ben looked at quality indicators and structural changes. Ben replied that he has hired statisticians to study the data and he is still looking at the "next steps" with this project.

Clinicians will receive data from this report about one week before the report goes out with financial data in December of every year.

Charlie commented on the level of effort that went into this project and Chuck Warnick inquired about the legal aspect of releasing the data to the public. Ben commented that many were blindsided by the release.

Charlie asked about the response of other institutions regarding the release of information. Ben said "someone had to be first" and now we all will do something.

The website for Norton's report card is:
(http://www.nortonhealthcare.com/about/qualityreport/index.aspx)

Public Use Data Sets

Mark Fazey reported on the issue of requests for public use data for "for profit" entities. Can data be released for public use if the hospitals ID's are removed? The entities want to use it for a marketing tool.

Charlie told the committee that guidance will come from several places but he is not sure of timeframes. The Cabinet has said that data would be released to the public but time frames have not been established.

NEW BUSINESS

AHRQ/H-CUP

Mark Fazey attended the annual meeting and shared the following information:

- The National Inpatient Sample (NIS) now has 36 states contributing data.
- The organization is developing online tools and downloadable software to help researchers use databases.
- Plans may include adding bed related data, linking databases, adding clinical data, R/V, cost to charges ratios
- Research and testing is being performed on a windows based QI software to replace SPSS
- AHRQ is also performing research on standards and the impact of HIPPA.
- UB04 rollout the first quarter of 2007
- KY has opportunity to be in the lead by adding GIS to Hospital Data

KHA Activities

Paige Franklin reported the following KHA activities:

- At the last Patient Safety meeting, ARC indicators were looked at the by the committee. The Committee would like for each hospital to pull data for closer look.
- On May 1st the data should be posted to the KHA website for public use.

- Paige said this data is for commercial use and all questions may be referred to her.

- The committee has formed subcommittees to look into hospital data that appears to be skewed when reported.

- KHA would like to make a data set for public use. The amount to be charged for the dataset has not yet been agreed upon.

Legislative Issue

Charlie talked about the legislative aspects of infection control and said we would report statistically valid data.

COMMITTEE HOUSEKEEPING

- Meeting schedule for the remainder of 2005:
    - July 14, 1:30 pm - 3:30 pm, Salato Wildlife Center
    - October 13, 1:30 pm - 3:30 pm, Salato Wildlife Center

The meeting was adjourned at 3:30 PM

4.4.1 Presentation

- **Risk Assessment Planning: A New Look – Matt Katirai and Jodie Weber, MPH, KCHFS/HPAB**

Risk Assessment Planning: A New Look

Presentation to:
Data Advisory Committee
April 14, 2005

Matt Katirai
Jodie Weber, MHA
Cabinet for Health and Family Services

Graniteville Train Derailment

Source: Division of Biostatistics and Health GIS, SC DHEC

Graniteville Train Derailment

- On January 6, 2005, two freight trains collided in Graniteville, South Carolina, releasing an estimated 11,500 gallons of chlorine gas
- 9 deaths from chlorine exposure
- 529 people sought medical treatment
  - 69 hospitalized
  - 18 treated at physician offices
- 5,453 residents, evacuated

Source: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5403a2.htm

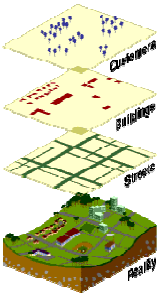
Symptoms of Chlorine Exposure

- Coughing
- Chest tightness
- Burning sensation in the nose, throat, and eyes
- Watery eyes, blurred vision
- Nausea and vomiting
- Burning pain, redness, and blisters on the skin if exposed to gas, skin injury similar to frostbite if exposed to liquid chlorine
- Difficulty breathing or shortness of breath, fluid in the lungs within 2 to 4 hours

Source:http://www.bt.cdc.gov/agent/chlorine/basics/facts.asp

Definition of GIS

- Geographic Information Systems (GIS)
- GIS is a system of computer software, hardware, data, and personnel to help manipulate, analyze, and present information that is tied to spatial information
- GIS combines layers of information about a place to give a better understanding of that place



Source: http://www.gis.com/whatisgis/whatisgis.pdf

Disaster Management and GIS

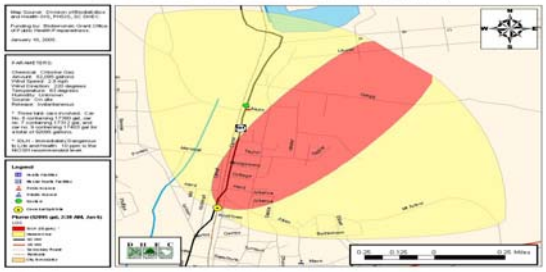
- GIS can be effectively used in all five phases of the disaster management cycle: preparation, mitigation, response, recovery, and epidemiological analysis.
- GIS uses
  - -analyzing consequences
  - -projecting and predicting
  - -disseminating information
  - -allocating and moving personnel, equipment, and resources

Capabilities of GIS

- Illustrate value of regional planning
- Drills and exercise scenario planning
- Natural and man-made disaster readiness
- Consequence management

Graniteville Train Derailment and GIS

GRANITEVILLE - CHLORINE DISPERSION MODEL (RUN1)



•Plume model of the disaster using current atmospheric conditions.

Source: Division of Biostatistics and Health GIS, SC DHEC

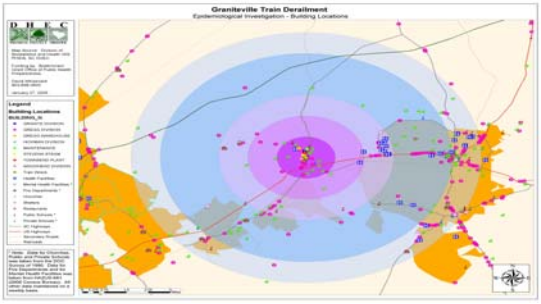
Graniteville Train Derailment and GIS

•GIS data combined with satellite photography to identify the area.

Cabinet for Health and Family Services

Source: Division of Biostatistics and Health GIS, SC DHEC

Graniteville Train Derailment and GIS



•GIS used for epidemiological investigation and determining dose response relationship.

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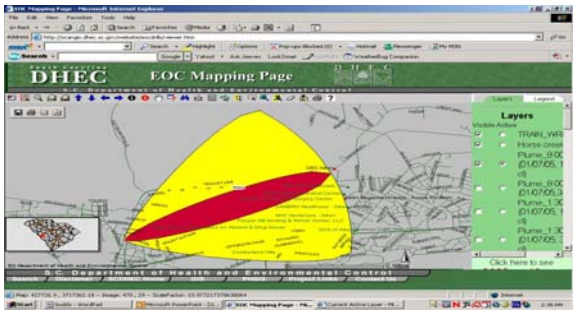
Source: Division of Biostatistics and Health GIS, SC DHEC

Graniteville Train Derailment and GIS



•Internet GIS application, which EOC officials can view the current situation.

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Source: Division of Biostatistics and Health GIS, SC DHEC

GIS CHLORINE SCENARIO

So, what if a train accident occurs in Lexington, Kentucky?

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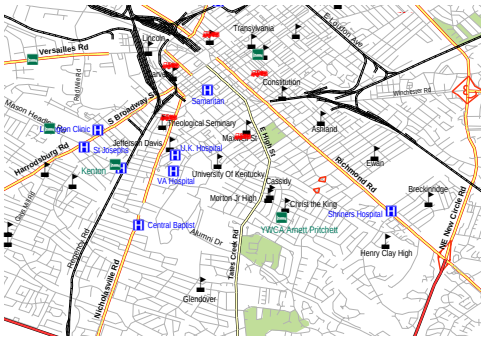
Snapshot of Downtown Lexington



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Chlorine Spill Site and Evacuation Buffer

•Can use standard guidelines for determining an evacuation area based on the type of chemical and can determine the appropriate evacuation zone.

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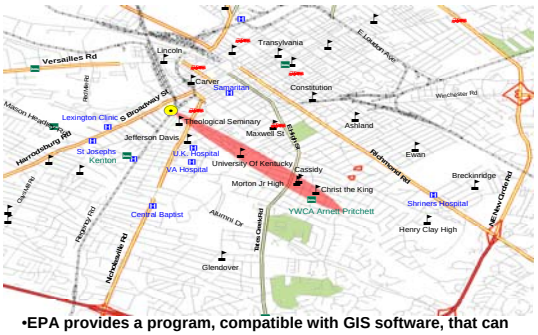
Kentucky UNBRIDLED SPIRIT

Chemical Spill Site and Plume Model



•EPA provides a program, compatible with GIS software, that can predict how hazardous a gas cloud might disperse into the atmosphere.

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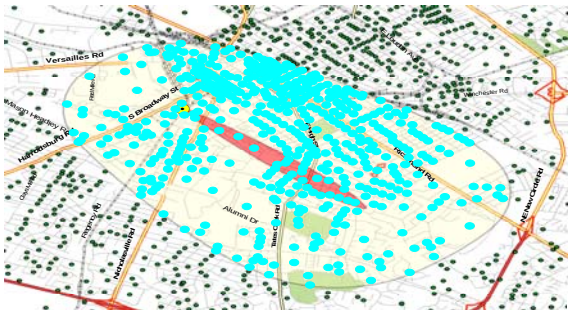
Identifying Those at Risk with GIS



•2000 Census Bureau information at the block level, indicates 36,000 residents and 16,000 households fall within the area.

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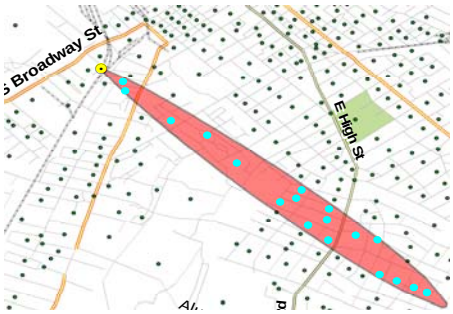
Kentucky UNBRIDLED SPIRIT

Identifying Those at Risk with GIS

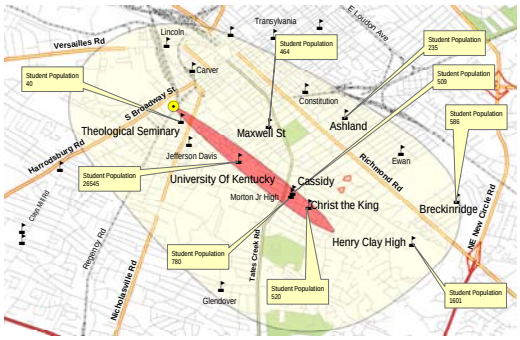


•2000 Census Bureau information at the block level, indicates 5,600 residents are in danger of being exposed.

Combining GIS with Kentucky Hospitalization Data

Using the plume model and evacuation zone we can determine those health care facilities at risk for chlorine exposure.

Identifying Those at Risk with GIS



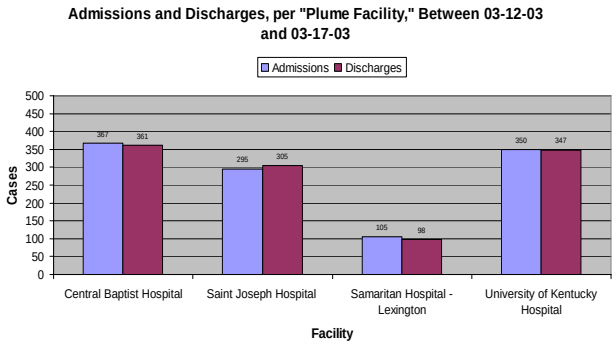
Plume Facilities

- Plume Hospitals:
  - Central Baptist, Saint Joseph, Samaritan Hospital, University of KY, Shriner's Hospital, VA Medical Center
- Plume Long-term Care Facilities:
  - YWCA Arnett Pritchett Place and Lexington Center for Health and Rehabilitation (now Kenton Healthcare)

Health Care Data

- Hospital Inpatient Data
  - 500,000 patient episodes per year; data from UB-92
  - Admission dates from 03-12-03 to 03-17-03
  - Data excludes Shriner's Hospital and VA Medical Center
- Health Care Utilization Data
  - 2003 KY Annual Hospital Utilization and Services Report
  - 2003 KY Annual Long-term Care Services Report
  - January 1 through December 31, 2003

Admissions and Discharges



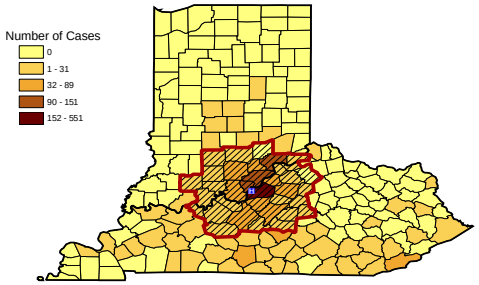
Occupancy Rate and Average Daily Census

Facility	Occupancy Rate	Average Daily Census
Central Baptist *	65.90%	244
Kenton Healthcare	43.36%	70
St. Joseph Hospital *	58.30%	260
Samaritan Hospital *	21.90%	66
Shriner's Hospital	31.50%	16
UK Hospital *	64.20%	304
VA Hospital	>90%	96
YWCA Arnett Pritchett Place	87.29%	14
TOTAL:		**1071**

Admission Type and Procedures

- Emergency room admissions: 21%
- Transfer from hospital: 16%
- Cardiac Procedures
  - Cardiac catheterization
  - Angioplasty
- Childbirth
  - Low cervical cesarean section
  - Assisted spontaneous delivery

GIS and Angioplasty Data

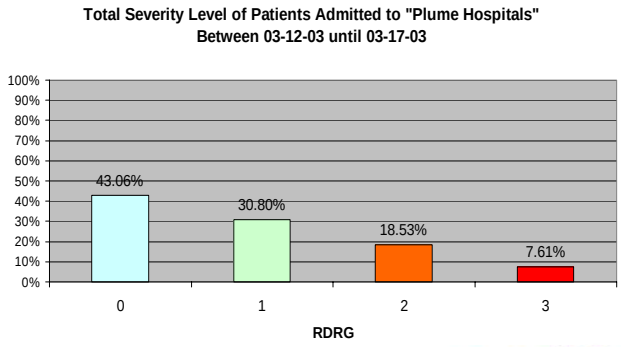


- 80% of angioplasty patients for Jewish Hospital come from a 50-mile radius. 36% of patients are from Indiana.

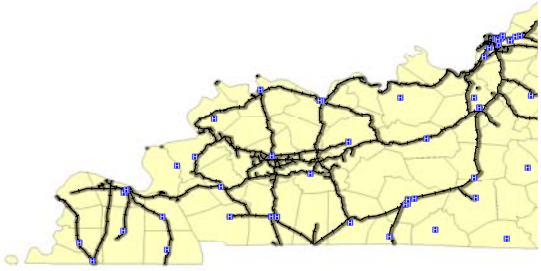
Concluding Remarks

GIS and Data provide a more complete picture of the impact of natural disasters, accidents, and terrorism.

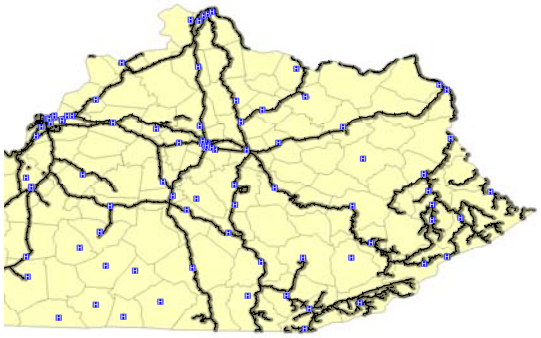
Severity Level of Patients



Potential for Risk (West)



Potential for Risk (East)



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Questions or Comments?

Kentucky UNBRIDLED SPIRIT

Appendix A: Selected Summary Reports

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 18 - Inpatient Hospitalization Days by Facility and Payor

(Source: Kentucky Inpatient Discharge Claims)

ADD	FACILITY	Medicaid Inpatient Days	Percent of Total	Medicare Inpatient Days	Percent of Total	Other Payor Inpatient Days	Percent of Total	Total Inpatient Days
01-PURCHASE	JACKSON PURCHASE MEDICAL CENTER	4,639	26.7%	8,867	51.1%	3,840	22.1%	17,346
	LOURDES HOSPITAL	4,649	8.7%	32,255	60.1%	16,779	31.3%	53,683
	MARSHALL COUNTY HOSPITAL	147	5.0%	2,531	86.1%	262	8.9%	2,940
	MURRAY-CALLOWAY COUNTY HOSPITAL	3,729	15.3%	14,151	58.1%	6,484	26.6%	24,364
	PARKWAY REGIONAL HOSPITAL	1,478	22.4%	3,779	57.2%	1,350	20.4%	6,607
	WESTERN BAPTIST HOSPITAL	6,361	9.3%	40,131	58.5%	22,064	32.2%	68,556
01-PURCHASE Total		**21,003**	**12.1%**	**101,714**	**58.6%**	**50,779**	**29.3%**	**173,496**
02-PENNYRILE	CALDWELL COUNTY HOSPITAL	242	8.5%	1,964	68.9%	643	22.6%	2,849
	CRITTENDEN HEALTH SYSTEM	1,348	22.1%	3,754	61.7%	986	16.2%	6,088
	FHC CUMBERLAND HALL	2,396	21.1%	255	2.2%	8,703	76.7%	11,354
	JENNIE STUART MEDICAL CENTER	5,170	18.4%	14,986	53.4%	7,913	28.2%	28,069
	LIVINGSTON HOSPITAL AND HEALTHCARE SERVICES	396	10.6%	2,897	77.2%	460	12.3%	3,753
	MUHLENBERG COMMUNITY HOSPITAL	2,240	20.4%	5,829	53.0%	2,928	26.6%	10,997
	REGIONAL MEDICAL CENTER OF HOPKINS COUNTY	7,973	18.4%	22,559	52.2%	12,696	29.4%	43,228
	TRIGG COUNTY HOSPITAL INC	50	4.7%	857	80.2%	162	15.2%	1,069
	WESTERN STATE HOSPITAL-HOPKINSVILLE	48	19.8%	33	13.6%	161	66.5%	242
02-PENNYRILE Total		**19,863**	**18.5%**	**53,134**	**49.4%**	**34,652**	**32.2%**	**107,649**
03-GREEN RIVER	METHODIST HOSPITAL	6,578	17.2%	21,490	56.1%	10,220	26.7%	38,288
	METHODIST HOSPITAL UNION COUNTY	203	8.0%	1,723	67.8%	617	24.3%	2,543
	OHIO COUNTY HOSPITAL-HARTFORD	360	9.2%	2,654	67.6%	913	23.2%	3,927
	OWENSBORO MEDICAL HEALTH SYSTEM	10,048	12.9%	42,914	54.9%	25,168	32.2%	78,130
03-GREEN RIVER Total		**17,189**	**14.0%**	**68,781**	**56.0%**	**36,918**	**30.0%**	**122,888**
04-BARREN RIVER	CAVERNA MEMORIAL HOSPITAL INC.	269	11.8%	1,842	80.7%	172	7.5%	2,283
	GREENVIEW REGIONAL HOSPITAL	2,301	10.8%	11,920	56.2%	6,987	32.9%	21,208
	LOGAN MEMORIAL HOSPITAL	1,463	17.7%	5,188	62.9%	1,602	19.4%	8,253
	MONROE COUNTY MEDICAL CENTER	2,579	27.2%	6,309	66.6%	587	6.2%	9,475
	REGIONAL SPECIALTY HOSPITAL - BOWLING GREEN		0.0%	1,275	99.5%	7	0.5%	1,282
	RIVENDELL BEHAVIORAL HEALTH SERVICES	10,496	91.7%		0.0%	949	8.3%	11,445
	SOUTHERN KENTUCKY REHABILITATION HOSPITAL	1,163	6.0%	15,986	82.8%	2,149	11.1%	19,298
	T J SAMSON COMMUNITY HOSPITAL	5,780	17.8%	18,503	56.9%	8,264	25.4%	32,547
	THE MEDICAL CENTER AT FRANKLIN	231	5.1%	3,815	84.3%	479	10.6%	4,525
	THE MEDICAL CENTER/BOWLING GREEN	11,813	16.2%	39,368	54.0%	21,732	29.8%	72,913
	THE MEDICAL CENTER/SCOTTSVILLE	247	12.3%	1,406	70.2%	350	17.5%	2,003
04-BARREN RIVER Total		**36,342**	**19.6%**	**105,612**	**57.0%**	**43,278**	**23.4%**	**185,232**

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 18 - Inpatient Hospitalization Days by Facility and Payor

(Source: Kentucky Inpatient Discharge Claims)

ADD	FACILITY	Medicaid Inpatient Days	Percent of Total	Medicare Inpatient Days	Percent of Total	Other Payor Inpatient Days	Percent of Total	Total Inpatient Days
05-LINCOLN TRAIL	BRECKINRIDGE MEMORIAL HOSPITAL	228	7.7%	2,270	76.3%	479	16.1%	2,977
	FLAGET MEMORIAL HOSPITAL	1,230	16.0%	4,376	57.0%	2,069	27.0%	7,675
	HARDIN MEMORIAL HOSPITAL	8,117	13.4%	33,456	55.3%	18,909	31.3%	60,482
	HEALTHSOUTH REHABILITATION HOSPITAL OF CENTRAL KENTUCKY	491	4.5%	9,471	87.7%	838	7.8%	10,800
	LINCOLN TRAIL HOSPITAL	10,650	55.4%	3,822	19.9%	4,758	24.7%	19,230
	SPRINGVIEW HOSPITAL	182	5.8%	1,489	47.1%	1,489	47.1%	3,160
	TWIN LAKES REGIONAL MEDICAL CENTER	1,665	15.6%	5,610	52.7%	3,364	31.6%	10,639
05-LINCOLN TRAIL Total		**22,563**	**19.6%**	**60,494**	**52.6%**	**31,906**	**27.8%**	**114,963**
06-KENTUCKIANA	BAPTIST HOSPITAL EAST	1,487	1.1%	72,566	55.9%	55,704	42.9%	129,757
	BAPTIST NORTHEAST HOSPITAL	349	2.6%	6,200	46.1%	6,897	51.3%	13,446
	CARITAS MEDICAL CENTER	6,169	7.7%	48,501	60.9%	24,995	31.4%	79,665
	FRAZIER REHABILITATION CENTER-LOUISVILLE	643	2.3%	17,119	61.4%	10,130	36.3%	27,892
	GATEWAY REHABILITATION HOSPITAL AT NORTON	38	0.3%	9,302	82.9%	1,878	16.7%	11,218
	JEWISH HOSPITAL - LOUISVILLE	3,443	2.8%	71,242	57.7%	48,746	39.5%	123,431
	JEWISH HOSPITAL-SHELBYVILLE	199	1.4%	8,878	64.0%	4,793	34.6%	13,870
	KINDRED HOSPITAL-LOUISVILLE	2,932	22.7%	172	1.3%	9,836	76.0%	12,940
	KOSAIR CHILDREN'S HOSPITAL	25,499	45.2%	118	0.2%	30,763	54.6%	56,380
	NORTON AUDUBON HOSPITAL	3,675	5.5%	43,388	64.8%	19,942	29.8%	67,005
	NORTON HOSPITAL - LOUISVILLE	16,294	16.7%	41,154	42.3%	39,893	41.0%	97,341
	NORTON SOUTHWEST HOSPITAL - LOUISVILLE	1,461	10.4%	9,055	64.4%	3,546	25.2%	14,062
	NORTON SUBURBAN HOSPITAL	9,069	11.1%	26,291	32.1%	46,654	56.9%	82,014
	TEN BROECK HOSPITAL	15,233	48.1%	3,503	11.1%	12,956	40.9%	31,692
	TEN BROECK HOSPITAL DUPONT	11,610	51.9%	4,111	18.4%	6,661	29.8%	22,382
	UNIVERSITY OF LOUISVILLE HOSPITAL	22,074	24.6%	1,331	1.5%	66,223	73.9%	89,628
06-KENTUCKIANA Total		**120,175**	**13.8%**	**362,931**	**41.6%**	**389,617**	**44.6%**	**872,723**
07-NORTHERN KY	CARROLL COUNTY MEMORIAL HOSPITAL	33	1.6%	1,443	69.2%	610	29.2%	2,086
	GATEWAY REHABILITATION HOSPITAL	278	3.1%	7,551	84.3%	1,126	12.6%	8,955
	HEALTHSOUTH REHABILITATION HOSPITAL OF NORTHERN KENTUCKY	479	4.3%	8,836	79.9%	1,745	15.8%	11,060
	NEW HORIZONS MEDICAL CENTER	169	11.8%	1,140	79.9%	118	8.3%	1,427
	ST ELIZABETH MEDICAL CENTER NORTH-COVINGTON	1,457	14.0%	6,743	64.9%	2,189	21.1%	10,389
	ST ELIZABETH MEDICAL CENTER SOUTH	9,401	9.5%	46,019	46.5%	43,604	44.0%	99,024
	ST ELIZABETH MEDICAL CENTER-GRANT COUNTY	165	9.9%	1,102	66.4%	393	23.7%	1,660
	ST LUKE HOSPITAL EAST	4,867	12.4%	22,780	58.0%	11,629	29.6%	39,276
	ST LUKE HOSPITAL WEST	6,576	17.5%	18,221	48.5%	12,783	34.0%	37,580
07-NORTHERN KY Total		**23,425**	**11.1%**	**113,835**	**53.8%**	**74,197**	**35.1%**	**211,457**
08-BUFFALO TRACE	FLEMING COUNTY HOSPITAL	808	12.9%	4,492	71.9%	945	15.1%	6,245
	MEADOWVIEW REGIONAL MEDICAL CENTER	2,048	18.7%	5,585	50.9%	3,338	30.4%	10,971
08-BUFFALO TRACE Total		**2,856**	**16.6%**	**10,077**	**58.5%**	**4,283**	**24.9%**	**17,216**

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Table 18 - Inpatient Hospitalization Days by Facility and Payor

(Source: Kentucky Inpatient Discharge Claims)

ADD	FACILITY	Medicaid Inpatient Days	Percent of Total	Medicare Inpatient Days	Percent of Total	Other Payor Inpatient Days	Percent of Total	Total Inpatient Days
09-GATEWAY	ARH MORGAN COUNTY APPALACHIAN REGIONAL HOSPITAL	326	14.5%	1,686	74.9%	239	10.6%	2,251
	MARY CHILES HOSPITAL & GATEWAY REGIONAL HEALTH SYSTEM	1,688	26.5%	3,037	47.7%	1,648	25.9%	6,373
	ST CLAIRE REGIONAL MEDICAL CENTER-MOREHEAD	5,532	24.8%	12,114	54.2%	4,696	21.0%	22,342
09-GATEWAY Total		**7,546**	**24.4%**	**16,837**	**54.4%**	**6,583**	**21.3%**	**30,966**
10-FIVCO	KING'S DAUGHTER'S MEDICAL CENTER	13,461	13.6%	54,468	55.0%	31,185	31.5%	99,114
	OUR LADY OF BELLEFONTE HOSPITAL	4,885	14.6%	16,101	48.2%	12,384	37.1%	33,370
	THREE RIVERS MEDICAL CENTER	6,585	41.4%	5,811	36.5%	3,525	22.1%	15,921
10-FIVCO Total		**24,931**	**16.8%**	**76,380**	**51.5%**	**47,094**	**31.7%**	**148,405**
11-BIG SANDY	ARH MCDOWELL APPALACHAIN REGIONAL HOSPITAL	935	22.1%	2,159	51.1%	1,135	26.8%	4,229
	ARH WILLIAMSON APPALACHIAN REGIONAL HOSPITAL	3,520	18.4%	10,799	56.5%	4,796	25.1%	19,115
	HIGHLANDS REGIONAL MEDICAL CENTER	2,836	11.7%	13,688	56.4%	7,727	31.9%	24,251
	OUR LADY OF THE WAY HOSPITAL-MARTIN	413	11.8%	949	27.1%	2,144	61.2%	3,506
	PAUL B HALL REGIONAL MEDICAL CENTER	4,704	29.9%	8,281	52.7%	2,724	17.3%	15,709
	PIKEVILLE MEDICAL CENTER	10,055	20.3%	27,739	55.9%	11,789	23.8%	49,583
11-BIG SANDY Total		**22,463**	**19.3%**	**63,615**	**54.7%**	**30,315**	**26.0%**	**116,393**
12-KY RIVER	ARH REGIONAL MEDICAL CENTER - HAZARD	20,324	27.5%	34,754	47.1%	18,750	25.4%	73,828
	ARH WHITESBURG APPALACHIAN REGIONAL HOSPITAL	4,751	27.9%	8,347	49.0%	3,929	23.1%	17,027
	JENKINS COMMUNITY HOSPITAL	787	35.0%	1,088	48.4%	372	16.6%	2,247
	KENTUCKY RIVER MEDICAL CENTER	4,039	30.2%	7,558	56.5%	1,774	13.3%	13,371
	MARY BRECKINRIDGE HEALTHCARE, INC.	441	25.9%	899	52.9%	361	21.2%	1,701
12-KY RIVER Total		**30,342**	**28.0%**	**52,646**	**48.7%**	**25,186**	**23.3%**	**108,174**
13-CUMBERLAND VALLEY	ARH HARLAN APPALACHIAN REGIONAL HOSPITAL	6,503	31.7%	9,797	47.7%	4,237	20.6%	20,537
	ARH MIDDLESBORO APPALACHIAN REGIONAL HOSPITAL	4,382	31.1%	7,261	51.6%	2,439	17.3%	14,082
	BAPTIST REGIONAL MEDICAL CENTER	15,592	30.2%	27,232	52.8%	8,764	17.0%	51,588
	KNOX COUNTY HOSPITAL	1,300	22.4%	3,473	59.9%	1,027	17.7%	5,800
	MARYMOUNT MEDICAL CENTER	5,258	21.4%	12,617	51.3%	6,723	27.3%	24,598
	MEMORIAL HOSPITAL INC.	4,513	32.6%	7,046	50.9%	2,288	16.5%	13,847
	PINEVILLE COMMUNITY HOSPITAL	5,134	27.8%	10,757	58.2%	2,598	14.1%	18,489
	ROCKCASTLE HOSPITAL INC	609	13.8%		0.0%	3,805	86.2%	4,414
13-CUMBERLAND VALLEY Total		**43,291**	**28.2%**	**78,183**	**51.0%**	**31,881**	**20.8%**	**153,355**

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Table 18 - Inpatient Hospitalization Days by Facility and Payor

(Source: Kentucky Inpatient Discharge Claims)

ADD	FACILITY	Medicaid Inpatient Days	Percent of Total	Medicare Inpatient Days	Percent of Total	Other Payor Inpatient Days	Percent of Total	Total Inpatient Days
14-LAKE CUMBERLAND	CASEY COUNTY HOSPITAL	185	12.6%	1,220	82.9%	67	4.6%	1,472
	CLINTON COUNTY HOSPITAL	2,224	23.1%	6,473	67.3%	918	9.5%	9,615
	CUMBERLAND COUNTY HOSPITAL	835	18.1%	3,282	71.0%	508	11.0%	4,625
	JANE TODD CRAWFORD MEMORIAL HOSPITAL	2,459	36.0%	3,335	48.8%	1,041	15.2%	6,835
	LAKE CUMBERLAND REGIONAL HOSPITAL	13,431	22.4%	34,063	56.9%	12,415	20.7%	59,909
	RUSSELL COUNTY HOSPITAL	681	13.9%	3,316	67.9%	888	18.2%	4,885
	TAYLOR REGIONAL HOSPITAL	3,253	19.8%	4,039	24.6%	9,109	55.5%	16,401
	WAYNE COUNTY HOSPITAL INC	399	15.1%	1,847	70.1%	389	14.8%	2,635
	WESTLAKE REGIONAL HOSPITAL	940	17.1%	4,308	78.3%	256	4.7%	5,504
14-LAKE CUMBERLAND Total		**24,407**	**21.8%**	**61,883**	**55.3%**	**25,591**	**22.9%**	**111,881**
15-BLUEGRASS	BEREA HOSPITAL	1,219	15.5%	5,168	65.8%	1,469	18.7%	7,856
	BLUEGRASS COMMUNITY HOSPITAL	77	5.2%	1,031	69.5%	375	25.3%	1,483
	BOURBON COMMUNITY HOSPITAL	2,342	37.8%	2,187	35.3%	1,665	26.9%	6,194
	CARDINAL HILL REHABILITATION HOSPITAL	5,510	17.2%		0.0%	26,437	82.8%	31,947
	CENTRAL BAPTIST HOSPITAL	15,812	16.3%	40,744	41.9%	40,657	41.8%	97,213
	CLARK REGIONAL MEDICAL CENTER	2,499	26.5%	3,999	42.4%	2,926	31.0%	9,424
	EASTERN STATE HOSPITAL		0.0%	988	94.4%	59	5.6%	1,047
	EPHRAIM MCDOWELL REGIONAL MEDICAL CENTER	6,781	17.5%	23,795	61.3%	8,244	21.2%	38,820
	FORT LOGAN HOSPITAL	867	25.3%	2,015	58.8%	544	15.9%	3,426
	FRANKFORT REGIONAL MEDICAL CENTER	2,842	14.3%	10,699	53.9%	6,307	31.8%	19,848
	GEORGETOWN COMMUNITY HOSPITAL	1,638	23.1%	2,096	29.5%	3,370	47.4%	7,104
	HARRISON MEMORIAL HOSPITAL	1,152	16.5%	4,291	61.4%	1,547	22.1%	6,990
	JAMES B HAGGIN MEMORIAL HOSPITAL	68	2.9%	1,718	74.3%	526	22.8%	2,312
	MARCUM & WALLACE MEMORIAL HOSPITAL	409	19.0%	1,473	68.5%	269	12.5%	2,151
	NICHOLAS COUNTY HOSPITAL	193	9.0%	1,436	67.2%	509	23.8%	2,138
	PATTIE A CLAY HOSPITAL	2,560	15.7%	8,927	54.6%	4,859	29.7%	16,346
	RIDGE BEHAVIORAL HEALTH SYSTEM	4,299	63.4%	461	6.8%	2,026	29.9%	6,786
	SAINT JOSEPH EAST	3,354	11.5%	11,129	38.1%	14,754	50.5%	29,237
	SAINT JOSEPH HOSPITAL	5,356	6.0%	57,078	63.5%	27,502	30.6%	89,936
	SAMARITAN HOSPITAL-LEXINGTON	3,089	10.1%	11,873	38.9%	15,529	50.9%	30,491
	SHRINERS HOSPITAL FOR CHILDREN		0.0%		0.0%	400	100.0%	400
	UNIVERSITY OF KENTUCKY HOSPITAL	35,813	32.4%	25,560	23.1%	49,306	44.5%	110,679
15-BLUEGRASS Total		**95,880**	**18.4%**	**216,668**	**41.5%**	**209,280**	**40.1%**	**521,828**
	State Total	**512,276**	**17.1%**	**1,442,790**	**48.1%**	**1,041,560**	**34.8%**	**2,996,626**

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Chart 18.1: Primary Payor, Kentucky Hospital Inpatient Days

(Source: Kentucky Inpatient Discharge Claims)

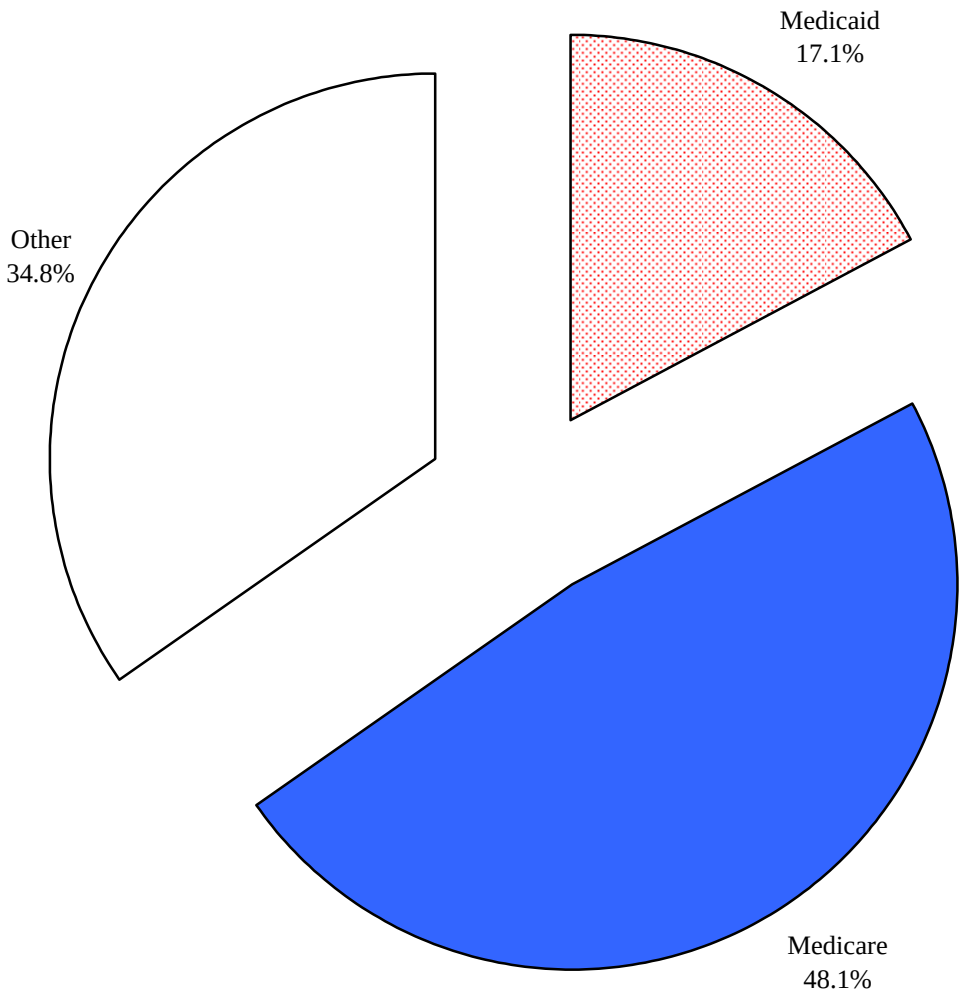

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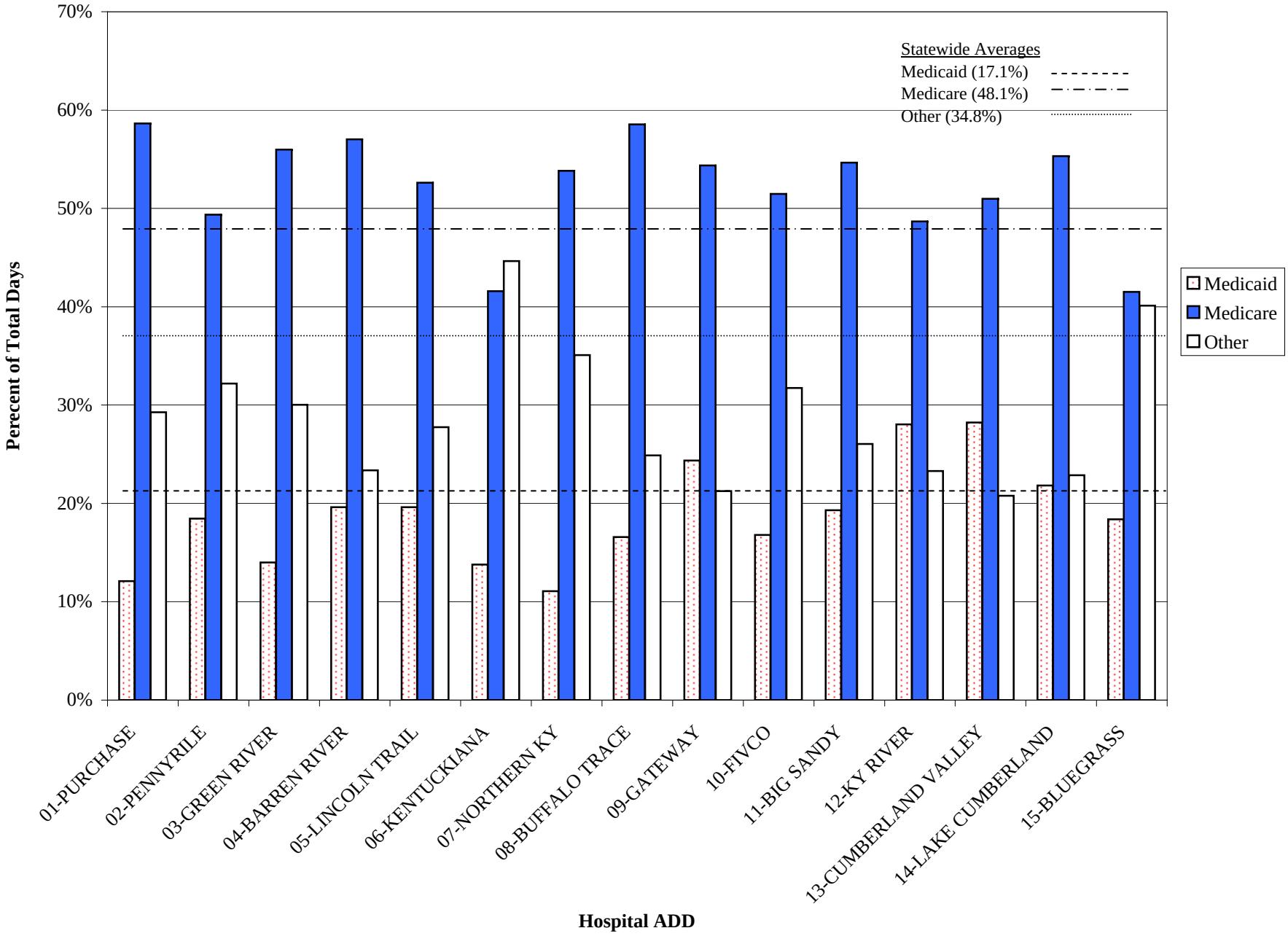
Chart 18.2: Inpatient Days, Primary Payor vs. Kentucky Hospital ADD

(Source: Kentucky Inpatient Discharge Claims)



2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 19.1 - Leading Twenty-five DRGs, All Kentucky Hospitals

(Source: Kentucky Hospital Inpatient Discharge Claims)

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	335,432	53.0%	5.2	$20,169	51.9
391 NORMAL NEWBORN	38,895	6.1%	2.2	$1,684	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	28,349	4.5%	2.3	$5,181	25.6
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	20,151	3.2%	4.5	$10,509	65.2
127 HEART FAILURE & SHOCK	19,556	3.1%	4.9	$12,693	72.8
430 PSYCHOSES	19,128	3.0%	8.0	$10,676	38.8
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	18,401	2.9%	5.2	$12,387	69.1
371 CESAREAN SECTION W/O CC	13,138	2.1%	3.3	$8,143	27.3
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	12,166	1.9%	3.7	$9,600	59.5
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	11,402	1.8%	4.4	$29,076	67.7
143 CHEST PAIN	11,106	1.8%	1.9	$7,785	56.6
462 REHABILITATION	10,634	1.7%	13.2	$24,727	68.1
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	8,296	1.3%	2.1	$10,373	42.1
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	8,008	1.3%	2.0	$33,307	62.7
174 G.I. HEMORRHAGE W CC	7,785	1.2%	4.3	$12,737	70.5
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	7,784	1.2%	4.2	$9,462	68.0
416 SEPTICEMIA AGE >17	7,441	1.2%	6.8	$19,442	69.6
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	7,025	1.1%	2.6	$3,044	0.0
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	6,714	1.1%	6.1	$18,078	70.8
098 BRONCHITIS & ASTHMA AGE 0-17	6,208	1.0%	2.6	$5,086	2.5
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	6,159	1.0%	4.4	$9,726	68.2
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	6,111	1.0%	2.6	$7,618	49.8
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	5,819	0.9%	3.6	$10,241	71.1
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	5,728	0.9%	6.4	$8,162	35.1
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	5,651	0.9%	3.8	$19,023	62.1
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	5,497	0.9%	2.5	$15,858	56.6
Grand Total	**632,584**	**100.0%**	**4.7**	**$15,850**	**49.0**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 01-PURCHASE

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	20,625	54.9%	4.9	$16,260	55.6
391 NORMAL NEWBORN	1,848	4.9%	2.4	$1,285	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	1,382	3.7%	2.3	$3,918	25.6
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	1,217	3.2%	5.8	$10,557	72.2
127 HEART FAILURE & SHOCK	1,154	3.1%	5.2	$9,784	74.9
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	1,072	2.9%	4.7	$8,515	68.8
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	905	2.4%	4.9	$30,391	69.2
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	864	2.3%	4.2	$8,727	62.6
371 CESAREAN SECTION W/O CC	726	1.9%	3.2	$7,300	26.9
430 PSYCHOSES	687	1.8%	6.2	$7,258	41.4
098 BRONCHITIS & ASTHMA AGE 0-17	659	1.8%	2.7	$3,422	2.5
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	574	1.5%	2.3	$9,681	42.7
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	556	1.5%	2.6	$36,256	64.0
143 CHEST PAIN	533	1.4%	2.0	$6,193	59.7
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	506	1.3%	6.1	$13,952	71.8
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	504	1.3%	4.5	$7,739	71.1
462 REHABILITATION	484	1.3%	15.0	$20,305	68.9
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	449	1.2%	3.1	$7,288	52.7
174 G.I. HEMORRHAGE W CC	449	1.2%	4.7	$11,128	72.3
416 SEPTICEMIA AGE >17	440	1.2%	6.9	$13,295	72.9
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	404	1.1%	2.6	$1,657	0.0
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	400	1.1%	2.6	$13,473	59.0
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	371	1.0%	3.5	$7,631	73.5
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	369	1.0%	4.9	$8,302	72.7
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	339	0.9%	3.9	$14,808	65.2
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	53	0.1%	3.1	$4,801	42.0
Grand Total	**37,570**	**100.0%**	**4.6**	**$13,446**	**52.8**

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 02-PENNYRILE

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	12,899	52.5%	4.7	$12,294	52.3
391 NORMAL NEWBORN	1,493	6.1%	2.1	$1,183	0.0
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	1,152	4.7%	4.3	$7,596	64.7
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	966	3.9%	2.1	$3,321	23.7
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	961	3.9%	4.7	$8,754	69.9
127 HEART FAILURE & SHOCK	911	3.7%	4.4	$8,489	73.3
371 CESAREAN SECTION W/O CC	596	2.4%	3.1	$6,528	25.6
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	529	2.2%	3.5	$7,158	62.4
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	507	2.1%	2.1	$7,931	39.8
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	505	2.1%	4.1	$6,730	70.6
143 CHEST PAIN	435	1.8%	1.8	$5,207	58.9
430 PSYCHOSES	389	1.6%	9.1	$7,039	29.1
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	367	1.5%	4.4	$7,394	71.0
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	349	1.4%	4.6	$23,979	68.6
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	342	1.4%	4.9	$11,016	72.2
174 G.I. HEMORRHAGE W CC	291	1.2%	4.2	$9,401	72.7
416 SEPTICEMIA AGE >17	291	1.2%	6.5	$14,504	69.4
098 BRONCHITIS & ASTHMA AGE 0-17	284	1.2%	2.9	$4,191	2.1
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	244	1.0%	3.2	$7,350	72.4
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	243	1.0%	2.8	$2,444	0.0
462 REHABILITATION	211	0.9%	14.5	$21,615	69.6
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	198	0.8%	2.5	$5,456	53.9
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	172	0.7%	2.1	$8,968	57.5
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	136	0.6%	15.8	$12,273	29.5
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	80	0.3%	3.4	$12,803	60.0
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	21	0.1%	2.8	$30,729	62.9
Grand Total	**24,572**	**100.0%**	**4.4**	**$9,949**	**49.9**

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 03-GREEN RIVER

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	15,183	52.3%	4.5	$13,685	53.3
391 NORMAL NEWBORN	1,795	6.2%	2.3	$1,382	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	1,414	4.9%	2.2	$3,940	24.8
127 HEART FAILURE & SHOCK	962	3.3%	4.9	$11,742	73.0
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	915	3.2%	4.9	$10,334	66.7
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	873	3.0%	5.4	$11,446	68.6
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	853	2.9%	4.1	$9,169	58.6
143 CHEST PAIN	762	2.6%	2.1	$7,376	57.3
430 PSYCHOSES	725	2.5%	3.2	$3,536	39.4
462 REHABILITATION	635	2.2%	12.8	$14,730	72.1
371 CESAREAN SECTION W/O CC	575	2.0%	3.3	$5,960	26.6
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	500	1.7%	3.9	$27,456	67.9
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	435	1.5%	2.9	$6,997	49.4
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	364	1.3%	3.4	$8,507	72.4
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	302	1.0%	4.4	$9,062	68.2
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	299	1.0%	5.5	$13,756	71.8
174 G.I. HEMORRHAGE W CC	299	1.0%	4.6	$13,175	72.3
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	291	1.0%	5.0	$9,751	70.4
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	291	1.0%	2.7	$2,244	0.0
098 BRONCHITIS & ASTHMA AGE 0-17	282	1.0%	2.1	$3,014	2.9
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	266	0.9%	2.1	$9,522	42.7
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	237	0.8%	3.3	$3,655	40.6
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	217	0.7%	2.7	$13,738	55.3
416 SEPTICEMIA AGE >17	211	0.7%	6.8	$20,829	70.4
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	206	0.7%	3.7	$14,150	61.8
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	117	0.4%	3.3	$32,610	62.0
Grand Total	**29,009**	**100.0%**	**4.2**	**$11,302**	**50.1**

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 04-BARREN RIVER

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	19,286	49.6%	4.9	$14,457	53.4
391 NORMAL NEWBORN	2,713	7.0%	2.2	$1,912	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	2,034	5.2%	2.3	$5,133	25.0
127 HEART FAILURE & SHOCK	1,375	3.5%	5.2	$10,537	72.9
462 REHABILITATION	1,335	3.4%	14.5	$24,722	72.1
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	1,212	3.1%	5.2	$9,651	65.0
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	1,123	2.9%	5.5	$10,964	70.3
143 CHEST PAIN	1,106	2.8%	2.0	$6,427	55.1
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	806	2.1%	3.9	$8,800	61.3
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	773	2.0%	4.8	$26,604	69.4
371 CESAREAN SECTION W/O CC	756	1.9%	2.8	$7,518	27.3
430 PSYCHOSES	726	1.9%	6.5	$7,257	39.4
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	558	1.4%	4.7	$8,710	70.1
174 G.I. HEMORRHAGE W CC	502	1.3%	4.4	$11,682	70.9
098 BRONCHITIS & ASTHMA AGE 0-17	500	1.3%	2.4	$3,584	2.0
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	480	1.2%	2.7	$6,856	50.5
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	477	1.2%	6.5	$17,513	71.4
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	475	1.2%	1.9	$9,013	42.1
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	422	1.1%	3.0	$12,766	55.4
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	374	1.0%	2.6	$2,622	0.0
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	371	1.0%	3.9	$14,965	61.7
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	367	0.9%	3.6	$8,346	70.1
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	362	0.9%	5.0	$9,791	71.2
416 SEPTICEMIA AGE >17	357	0.9%	7.1	$17,784	72.8
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	262	0.7%	18.0	$19,038	22.8
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	128	0.3%	2.8	$28,760	61.1
Grand Total	**38,880**	**100.0%**	**4.8**	**$12,182**	**49.9**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 05-LINCOLN TRAIL

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	11,575	50.8%	6.1	$12,061	51.9
391 NORMAL NEWBORN	1,796	7.9%	2.1	$1,258	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	1,336	5.9%	2.1	$2,998	24.7
127 HEART FAILURE & SHOCK	923	4.1%	4.8	$8,774	72.2
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	916	4.0%	5.4	$9,416	69.2
430 PSYCHOSES	729	3.2%	7.8	$6,028	35.9
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	705	3.1%	5.0	$9,015	65.7
371 CESAREAN SECTION W/O CC	566	2.5%	2.7	$6,147	26.4
416 SEPTICEMIA AGE >17	479	2.1%	7.1	$13,680	67.4
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	436	1.9%	3.5	$7,302	59.5
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	396	1.7%	4.6	$20,939	69.6
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	358	1.6%	8.1	$15,360	72.2
174 G.I. HEMORRHAGE W CC	357	1.6%	4.4	$10,324	69.9
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	312	1.4%	4.5	$8,137	68.5
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	298	1.3%	2.1	$8,158	43.8
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	255	1.1%	2.4	$1,869	0.0
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	240	1.1%	4.0	$6,938	68.1
143 CHEST PAIN	223	1.0%	1.9	$6,341	58.1
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	215	0.9%	2.8	$6,200	53.1
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	208	0.9%	3.3	$7,120	71.2
098 BRONCHITIS & ASTHMA AGE 0-17	182	0.8%	2.3	$3,024	2.1
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	173	0.8%	3.1	$2,709	37.3
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	54	0.2%	4.6	$12,433	63.7
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	25	0.1%	2.9	$29,795	62.9
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	21	0.1%	2.6	$8,995	59.4
Grand Total	**22,778**	**100.0%**	**5.0**	**$9,570**	**47.9**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 06-KENTUCKIANA

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	87,521	56.0%	6.2	$30,320	50.5
391 NORMAL NEWBORN	9,807	6.3%	2.3	$2,155	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	7,349	4.7%	2.4	$5,940	26.5
430 PSYCHOSES	5,094	3.3%	11.4	$14,970	37.8
127 HEART FAILURE & SHOCK	4,110	2.6%	5.4	$16,657	72.4
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	3,882	2.5%	4.1	$30,307	66.5
462 REHABILITATION	3,312	2.1%	12.9	$22,553	66.1
371 CESAREAN SECTION W/O CC	3,202	2.1%	3.7	$9,173	28.4
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	2,861	1.8%	5.4	$15,549	68.2
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	2,796	1.8%	4.9	$13,694	64.7
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	2,241	1.4%	3.9	$11,903	58.2
143 CHEST PAIN	2,164	1.4%	1.9	$10,735	57.5
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	2,137	1.4%	2.2	$37,509	62.9
416 SEPTICEMIA AGE >17	1,988	1.3%	6.9	$22,635	69.4
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	1,906	1.2%	2.8	$4,580	0.0
174 G.I. HEMORRHAGE W CC	1,746	1.1%	4.6	$15,426	70.1
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	1,678	1.1%	6.5	$24,138	69.5
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	1,659	1.1%	2.3	$11,883	43.2
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	1,556	1.0%	8.5	$11,455	36.9
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	1,555	1.0%	4.2	$23,689	62.1
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	1,536	1.0%	2.7	$20,564	56.7
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	1,395	0.9%	4.2	$12,089	65.9
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	1,272	0.8%	3.8	$13,159	69.3
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	1,264	0.8%	4.5	$11,875	69.6
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	1,130	0.7%	2.8	$9,321	48.7
098 BRONCHITIS & ASTHMA AGE 0-17	1,029	0.7%	3.3	$9,030	3.5
Grand Total	**156,190**	**100.0%**	**5.6**	**$23,006**	**47.7**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 07-NORTHERN KY

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	24,621	52.3%	5.4	$20,469	55.1
391 NORMAL NEWBORN	3,688	7.8%	1.9	$1,679	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	2,780	5.9%	2.0	$5,578	26.2
430 PSYCHOSES	1,505	3.2%	5.1	$6,924	42.8
127 HEART FAILURE & SHOCK	1,228	2.6%	5.3	$15,532	74.6
371 CESAREAN SECTION W/O CC	1,150	2.4%	3.0	$8,572	27.7
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	1,141	2.4%	5.3	$11,927	65.6
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	1,106	2.3%	5.1	$13,198	68.9
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	853	1.8%	2.3	$2,749	0.0
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	848	1.8%	4.1	$11,881	58.9
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	813	1.7%	3.1	$3,948	37.6
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	707	1.5%	1.8	$36,276	62.6
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	658	1.4%	2.1	$11,786	41.8
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	646	1.4%	4.1	$32,178	69.0
416 SEPTICEMIA AGE >17	634	1.3%	7.3	$21,946	69.0
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	628	1.3%	8.0	$20,311	70.3
143 CHEST PAIN	619	1.3%	1.7	$9,460	57.8
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	584	1.2%	3.8	$21,245	63.6
174 G.I. HEMORRHAGE W CC	570	1.2%	4.7	$14,629	72.0
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	560	1.2%	2.2	$17,909	56.8
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	418	0.9%	2.6	$9,200	50.9
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	412	0.9%	4.1	$13,112	73.7
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	401	0.9%	4.1	$10,836	68.4
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	377	0.8%	4.4	$10,902	68.1
098 BRONCHITIS & ASTHMA AGE 0-17	115	0.2%	1.7	$3,248	3.4
462 REHABILITATION	4	0.0%	12.0	$22,044	77.8
Grand Total	**47,066**	**100.0%**	**4.5**	**$15,818**	**48.9**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 08-BUFFALO TRACE

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	2,854	50.5%	3.1	$8,709	54.9
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	364	6.4%	4.4	$10,200	68.4
391 NORMAL NEWBORN	337	6.0%	2.1	$1,009	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	269	4.8%	2.0	$3,507	24.7
127 HEART FAILURE & SHOCK	242	4.3%	3.4	$8,743	72.9
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	239	4.2%	3.3	$7,815	66.2
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	144	2.6%	2.8	$7,132	62.0
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	123	2.2%	3.5	$7,110	68.0
371 CESAREAN SECTION W/O CC	109	1.9%	2.6	$7,958	25.9
143 CHEST PAIN	108	1.9%	1.2	$4,701	55.9
174 G.I. HEMORRHAGE W CC	95	1.7%	3.4	$8,716	70.0
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	94	1.7%	2.1	$12,089	42.8
416 SEPTICEMIA AGE >17	89	1.6%	4.9	$12,903	69.0
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	87	1.5%	2.4	$1,425	0.0
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	84	1.5%	3.8	$7,460	73.3
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	79	1.4%	4.1	$9,550	78.2
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	77	1.4%	4.6	$22,634	73.4
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	73	1.3%	2.4	$15,460	61.0
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	57	1.0%	1.9	$5,511	47.4
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	51	0.9%	2.4	$7,125	72.0
098 BRONCHITIS & ASTHMA AGE 0-17	49	0.9%	2.1	$3,653	1.5
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	15	0.3%	2.0	$15,485	60.6
430 PSYCHOSES	3	0.1%	3.0	$6,534	56.3
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	3	0.1%	1.0	$3,412	42.3
462 REHABILITATION	1	0.0%	7.0	$8,591	72.0
Grand Total	**5,646**	**100.0%**	**3.0**	**$8,099**	**52.2**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 09-GATEWAY

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	4,193	48.4%	4.2	$9,391	54.6
391 NORMAL NEWBORN	758	8.7%	2.1	$743	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	563	6.5%	2.3	$2,810	24.7
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	350	4.0%	3.1	$6,765	65.6
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	346	4.0%	4.2	$8,760	71.4
430 PSYCHOSES	335	3.9%	3.6	$2,793	42.7
127 HEART FAILURE & SHOCK	298	3.4%	3.7	$7,835	74.7
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	201	2.3%	3.3	$6,720	62.6
143 CHEST PAIN	169	1.9%	1.7	$6,023	60.9
416 SEPTICEMIA AGE >17	158	1.8%	5.0	$9,982	69.3
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	136	1.6%	2.5	$2,039	35.8
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	127	1.5%	4.6	$17,849	68.0
174 G.I. HEMORRHAGE W CC	121	1.4%	3.3	$7,329	72.4
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	112	1.3%	4.1	$6,905	69.3
371 CESAREAN SECTION W/O CC	107	1.2%	2.5	$4,662	26.8
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	102	1.2%	4.7	$10,989	72.9
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	93	1.1%	2.3	$949	0.0
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	84	1.0%	1.9	$6,174	41.2
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	82	0.9%	2.8	$16,121	65.1
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	82	0.9%	3.6	$6,505	69.1
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	77	0.9%	2.6	$6,134	75.5
098 BRONCHITIS & ASTHMA AGE 0-17	64	0.7%	2.2	$2,895	1.4
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	59	0.7%	2.5	$5,542	44.0
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	49	0.6%	2.0	$14,556	57.2
462 REHABILITATION	3	0.0%	11.7	$11,255	75.3
Grand Total	**8,669**	**100.0%**	**3.6**	**$7,401**	**49.3**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 10-FIVCO

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	18,271	51.1%	4.4	$16,645	51.4
430 PSYCHOSES	1,629	4.6%	5.7	$6,194	39.4
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	1,372	3.8%	4.1	$10,514	63.8
127 HEART FAILURE & SHOCK	1,314	3.7%	4.5	$11,292	72.2
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	1,287	3.6%	5.0	$11,399	68.6
391 NORMAL NEWBORN	1,270	3.6%	2.1	$1,165	0.0
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	1,001	2.8%	2.1	$27,707	62.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	906	2.5%	2.5	$6,092	24.9
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	854	2.4%	3.4	$8,291	60.3
143 CHEST PAIN	746	2.1%	1.6	$6,915	53.5
462 REHABILITATION	725	2.0%	11.0	$12,842	70.8
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	579	1.6%	4.1	$3,779	34.1
098 BRONCHITIS & ASTHMA AGE 0-17	550	1.5%	2.4	$5,094	2.4
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	544	1.5%	2.4	$11,285	55.7
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	536	1.5%	2.5	$7,157	48.0
371 CESAREAN SECTION W/O CC	518	1.4%	3.0	$8,670	26.1
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	501	1.4%	3.7	$24,365	66.9
416 SEPTICEMIA AGE >17	494	1.4%	5.8	$15,369	69.8
174 G.I. HEMORRHAGE W CC	488	1.4%	4.0	$10,292	70.1
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	428	1.2%	2.0	$11,817	41.2
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	336	0.9%	3.7	$14,207	61.9
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	326	0.9%	4.5	$12,703	70.7
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	325	0.9%	3.6	$9,783	70.3
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	293	0.8%	3.8	$9,153	65.4
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	280	0.8%	4.3	$9,435	65.1
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	195	0.5%	2.8	$2,584	0.0
Grand Total	**35,768**	**100.0%**	**4.1**	**$13,467**	**50.8**

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 11-BIG SANDY

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	13,678	50.9%	4.6	$19,113	49.7
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	2,150	8.0%	4.7	$12,471	65.9
391 NORMAL NEWBORN	1,347	5.0%	2.2	$2,326	0.0
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	1,285	4.8%	5.6	$20,425	68.0
127 HEART FAILURE & SHOCK	1,077	4.0%	5.2	$16,407	71.8
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	918	3.4%	2.3	$7,306	24.5
143 CHEST PAIN	700	2.6%	2.0	$9,741	54.0
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	695	2.6%	3.5	$12,942	57.0
371 CESAREAN SECTION W/O CC	590	2.2%	2.6	$9,957	25.7
098 BRONCHITIS & ASTHMA AGE 0-17	549	2.0%	2.3	$6,516	2.2
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	463	1.7%	4.3	$12,909	66.2
174 G.I. HEMORRHAGE W CC	454	1.7%	4.3	$15,697	68.8
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	334	1.2%	2.1	$8,963	47.5
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	330	1.2%	4.8	$13,561	65.9
416 SEPTICEMIA AGE >17	282	1.0%	7.8	$28,047	68.7
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	280	1.0%	3.5	$12,272	69.7
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	280	1.0%	2.5	$3,441	0.0
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	250	0.9%	2.2	$15,894	42.1
462 REHABILITATION	242	0.9%	12.6	$23,782	70.4
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	224	0.8%	5.8	$19,791	71.0
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	216	0.8%	4.9	$6,642	32.9
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	152	0.6%	3.5	$16,828	59.0
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	150	0.6%	5.2	$32,351	71.0
430 PSYCHOSES	80	0.3%	10.0	$10,989	67.5
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	79	0.3%	3.6	$36,654	57.2
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	71	0.3%	2.9	$15,016	52.9
Grand Total	**26,876**	**100.0%**	**4.3**	**$15,924**	**49.3**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 12-KY RIVER

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	12,109	49.1%	4.1	$15,561	49.9
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	2,070	8.4%	3.8	$12,503	62.6
430 PSYCHOSES	1,617	6.6%	10.6	$22,008	40.2
127 HEART FAILURE & SHOCK	972	3.9%	4.5	$14,716	69.7
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	957	3.9%	4.7	$14,450	67.7
143 CHEST PAIN	774	3.1%	1.6	$7,452	54.8
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	632	2.6%	5.7	$12,053	32.8
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	601	2.4%	3.0	$10,756	55.9
391 NORMAL NEWBORN	573	2.3%	2.2	$1,839	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	524	2.1%	2.5	$5,702	23.8
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	491	2.0%	3.7	$11,538	65.6
174 G.I. HEMORRHAGE W CC	401	1.6%	3.6	$14,611	67.2
098 BRONCHITIS & ASTHMA AGE 0-17	381	1.5%	2.2	$5,367	2.3
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	332	1.3%	3.7	$10,791	62.8
462 REHABILITATION	326	1.3%	11.9	$35,745	69.2
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	275	1.1%	2.2	$8,748	44.8
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	254	1.0%	3.1	$10,753	69.6
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	231	0.9%	2.8	$20,104	58.8
416 SEPTICEMIA AGE >17	220	0.9%	7.0	$29,942	69.1
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	201	0.8%	2.5	$2,353	0.0
371 CESAREAN SECTION W/O CC	172	0.7%	2.9	$8,298	26.1
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	157	0.6%	5.5	$21,414	72.1
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	134	0.5%	1.9	$10,462	40.0
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	133	0.5%	2.3	$18,557	50.4
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	108	0.4%	5.7	$32,328	72.7
Grand Total	**24,645**	**100.0%**	**4.4**	**$14,596**	**50.2**

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 13-CUMBERLAND VALLEY

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	18,870	50.1%	4.1	$11,761	51.0
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	1,935	5.1%	3.9	$8,536	64.3
391 NORMAL NEWBORN	1,800	4.8%	2.2	$1,409	0.0
430 PSYCHOSES	1,625	4.3%	7.4	$12,699	38.6
127 HEART FAILURE & SHOCK	1,611	4.3%	4.6	$11,708	72.1
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	1,331	3.5%	2.2	$5,487	24.1
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	1,287	3.4%	4.6	$10,818	67.8
143 CHEST PAIN	1,038	2.8%	1.8	$5,777	54.1
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	956	2.5%	3.6	$8,352	57.6
371 CESAREAN SECTION W/O CC	683	1.8%	2.8	$8,133	25.9
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	673	1.8%	3.9	$7,836	66.6
098 BRONCHITIS & ASTHMA AGE 0-17	650	1.7%	2.2	$4,215	2.5
416 SEPTICEMIA AGE >17	623	1.7%	7.1	$17,866	70.2
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	568	1.5%	4.0	$7,943	63.5
174 G.I. HEMORRHAGE W CC	541	1.4%	4.6	$12,107	69.9
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	518	1.4%	2.6	$7,147	48.8
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	426	1.1%	3.5	$8,969	71.0
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	414	1.1%	2.9	$17,944	58.8
462 REHABILITATION	406	1.1%	13.9	$21,142	72.5
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	383	1.0%	2.4	$1,817	0.0
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	316	0.8%	2.4	$9,601	39.4
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	247	0.7%	6.2	$33,029	71.1
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	237	0.6%	6.0	$16,318	71.7
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	192	0.5%	4.6	$7,619	34.1
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	168	0.4%	2.6	$16,698	52.8
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	158	0.4%	1.9	$29,805	60.1
Grand Total	**37,656**	**100.0%**	**4.1**	**$10,615**	**49.4**

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 14-LAKE CUMBERLAND

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	13,078	50.0%	4.3	$13,178	52.2
391 NORMAL NEWBORN	1,517	5.8%	2.2	$1,874	0.0
430 PSYCHOSES	1,308	5.0%	6.4	$7,516	42.8
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	1,162	4.4%	5.8	$11,332	70.0
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	1,019	3.9%	4.6	$9,302	66.8
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	946	3.6%	2.2	$5,130	24.0
127 HEART FAILURE & SHOCK	902	3.4%	4.6	$9,554	75.9
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	638	2.4%	3.5	$6,725	60.3
462 REHABILITATION	550	2.1%	12.7	$20,782	74.3
371 CESAREAN SECTION W/O CC	493	1.9%	2.6	$8,262	25.3
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	452	1.7%	4.2	$7,651	69.8
143 CHEST PAIN	448	1.7%	2.1	$7,369	57.4
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	419	1.6%	2.2	$12,316	41.6
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	417	1.6%	4.7	$8,359	69.1
098 BRONCHITIS & ASTHMA AGE 0-17	401	1.5%	2.9	$4,070	1.3
416 SEPTICEMIA AGE >17	325	1.2%	6.5	$17,565	69.7
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	310	1.2%	2.6	$5,934	51.2
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	274	1.0%	2.6	$16,563	56.1
174 G.I. HEMORRHAGE W CC	263	1.0%	4.2	$10,952	73.3
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	243	0.9%	3.9	$8,340	73.0
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	196	0.7%	2.3	$44,870	62.6
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	184	0.7%	3.6	$18,930	64.1
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	183	0.7%	2.6	$2,800	0.0
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	152	0.6%	5.4	$14,882	72.8
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	152	0.6%	4.8	$27,801	70.2
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	115	0.4%	4.1	$3,569	37.4
Grand Total	**26,147**	**100.0%**	**4.3**	**$11,269**	**50.3**

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Table 19.2 - Leading Twenty-five DRGs by Hospital ADD

(Source: Kentucky Hospital Inpatient Discharge Claims)

HOSPITAL ADD: 15-BLUEGRASS

DIAGNOSIS RELATED GROUP (DRG)	Hospitalizations	Percent of Total	Average LOS	Average Charge	Average Age
999 ALL OTHER	60,669	54.6%	5.3	$21,019	51.2
391 NORMAL NEWBORN	8,153	7.3%	2.3	$1,489	0.0
373 VAGINAL DELIVERY W/O COMPLIC DIAGNOSES	5,631	5.1%	2.4	$5,182	26.2
371 CESAREAN SECTION W/O CC	2,895	2.6%	3.6	$8,011	27.9
527 PERC CV PROC W DRUG ELUT STENT W/O AM (EFF 10/02)	2,883	2.6%	1.6	$30,434	63.1
430 PSYCHOSES	2,676	2.4%	6.4	$7,324	35.0
089 SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	2,656	2.4%	5.1	$10,570	69.5
209 MAJ JOINT/LIMB REATTACH PROC, LOW EXTREM	2,589	2.3%	4.6	$30,006	66.7
127 HEART FAILURE & SHOCK	2,477	2.2%	4.8	$11,728	72.4
462 REHABILITATION	2,400	2.2%	13.6	$35,269	63.9
359 UTER&ADNEX PROC FOR NON-MALIG W/O CC	2,134	1.9%	2.1	$9,129	42.3
088 CHRONIC OBSTRUCTIVE PULMONARY DISEASE	2,023	1.8%	4.2	$8,474	65.8
182 ESPHGITIS,GE,MISC DIG DIS AGE >17 W CC	1,500	1.3%	4.0	$8,951	60.8
143 CHEST PAIN	1,281	1.2%	2.0	$7,102	58.5
390 NEONATE W OTHER SIGNIFICANT PROBLEMS	1,277	1.1%	2.7	$2,800	0.0
174 G.I. HEMORRHAGE W CC	1,208	1.1%	4.1	$11,184	70.4
296 NUTRIT & MISC METAB DISOR AGE >17 W CC	1,200	1.1%	4.3	$8,585	69.4
014 INTRACRANIAL HEMORR OR CEREBRAL INFARCT (REV 10/04)	1,149	1.0%	5.3	$16,871	69.6
124 CIRC DIS EX AMI W CARD CATH & COMPLX DX	990	0.9%	3.8	$17,913	62.5
138 CARD ARRHYTHMIA & CONDUCTN DISOR W CC	925	0.8%	3.7	$9,897	70.8
125 CIRC DIS EX AMI W CARD CATH WO COMPLX DX	915	0.8%	2.3	$13,233	58.6
416 SEPTICEMIA AGE >17	850	0.8%	6.9	$19,688	68.2
320 KIDNEY,URIN TRACT INFECT AGE >17 W CC	796	0.7%	4.3	$8,919	67.3
183 ESPHGITIS,GE,MISC DIG DIS AGE >17 W/O CC	697	0.6%	2.6	$6,793	51.8
523 ALCOH/DRUG ABUSE OR DEP W/O REHAB THER W/O CC (EFF10/01)	625	0.6%	6.1	$6,511	34.6
098 BRONCHITIS & ASTHMA AGE 0-17	513	0.5%	2.7	$4,114	2.2
Grand Total	**111,112**	**100.0%**	**4.7**	**$16,615**	**47.6**

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.1 - Selected Category Summary by Quarter, All Kentucky Hospitals

(Source: Kentucky Inpatient Discharge Claims)

Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
Total Hospitalizations						
		165,816	155,445	155,788	155,535	632,584
State Of Residence						
	Out of State	10,625	10,321	10,595	9,533	41,074
	Kentucky	155,191	145,124	145,193	146,002	591,510
Gender						
	F	97,871	92,814	93,079	91,979	375,743
	M	67,938	62,625	62,703	63,545	256,811
	U	7	6	6	11	30
Age Group						
	Newborn	12,421	12,541	13,273	12,911	51,146
	00	4,441	2,411	2,079	2,610	11,541
	01-19	11,481	8,954	8,817	10,609	39,861
	20-64	77,811	75,845	77,644	75,647	306,947
	65-84	48,354	45,617	44,318	43,915	182,204
	85-99	11,203	10,007	9,571	9,771	40,552
	100+	105	70	86	72	333
Admission Type						
	Newborn	12,421	12,541	13,273	12,911	51,146
	Emergency	71,605	65,553	64,803	63,532	265,493
	Urgent	28,383	25,463	25,560	26,822	106,228
	Elective	53,220	51,716	51,936	51,711	208,583
	Trauma Center	44	72	87	110	313
	Information not available	143	100	129	449	821
Length of Stay (days)						
	0-5	124,174	118,362	119,393	118,111	480,040
	6-10	27,132	24,354	23,909	24,352	99,747
	11-30	13,167	11,497	11,426	11,963	48,053
	31-90	1,236	1,140	1,002	1,050	4,428
	91-180	81	70	48	53	252
	181-360	21	14	4	3	42
	360+	5	8	6	3	22
Primary Payor						
	Other	19,215	10,163	9,796	10,009	49,183
	Commercial	38,575	41,802	41,877	41,016	163,270
	Medicaid	29,414	29,241	30,071	31,130	119,856
	Medicare	68,655	64,306	63,540	62,304	258,805
	Other State/Fed'l Program	1,436	1,521	1,644	2,028	6,629
	Passport MMC	805	840	929	831	3,405
	Self Pay	6,665	6,416	6,856	7,140	27,077
	Worker's Comp	1,051	1,156	1,075	1,077	4,359

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Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
01-PURCHASE							
	Total Hospitalizations						
			9,872	9,110	9,212	9,376	37,570
	State of Residence						
		Out of State	1,255	1,208	1,211	1,167	4,841
		Kentucky	8,617	7,902	8,001	8,209	32,729
	Gender						
		F	5,856	5,344	5,453	5,533	22,186
		M	4,016	3,766	3,759	3,843	15,384
	Age Group						
		Newborn	628	608	654	642	2,532
		00	229	116	108	154	607
		01-19	629	487	451	586	2,153
		20-64	4,193	4,021	4,107	4,126	16,447
		65-84	3,301	3,121	3,159	3,079	12,660
		85-99	886	751	731	783	3,151
		100+	6	6	2	6	20
	Admission Type						
		Newborn	628	608	654	642	2,532
		Emergency	4,951	4,663	4,674	4,651	18,939
		Urgent	1,728	1,366	1,382	1,449	5,925
		Elective	2,564	2,467	2,487	2,634	10,152
		Information not available	1	6	15		22
	Length of Stay (days)						
		0-5	7,271	6,756	6,962	7,040	28,029
		6-10	1,855	1,701	1,599	1,681	6,836
		11-30	708	607	622	622	2,559
		31-90	38	46	29	33	146
	Primary Payor						
		Other	683	665	737	740	2,825
		Commercial	2,337	2,122	2,102	2,196	8,757
		Medicaid	1,578	1,403	1,448	1,577	6,006
		Medicare	4,823	4,448	4,444	4,418	18,133
		Other State/Fed'l Program	55	52	58	51	216
		Self Pay	346	360	381	346	1,433
		Worker's Comp	50	60	42	48	200

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
02-PENNYRILE							
	Total Hospitalizations						
			6,771	6,003	5,788	6,010	24,572
	State of Residence						
		Out of State	114	141	128	96	479
		Kentucky	6,657	5,862	5,660	5,914	24,093
	Gender						
		F	4,117	3,636	3,607	3,658	15,018
		M	2,654	2,367	2,181	2,351	9,553
		Unknown				1	1
	Age Group						
		Newborn	470	451	489	498	1,908
		00	209	105	119	122	555
		01-19	589	416	354	442	1,801
		20-64	2,919	2,657	2,648	2,768	10,992
		65-84	1,981	1,871	1,685	1,685	7,222
		85-99	595	495	485	493	2,068
		100+	8	8	8	2	26
	Admission Type						
		Newborn	470	451	489	498	1,908
		Emergency	2,800	2,487	2,176	2,297	9,760
		Urgent	1,152	988	1,063	1,035	4,238
		Elective	2,345	2,076	2,060	2,179	8,660
		Information not available	4	1		1	6
	Length of Stay (days)						
		0-5	5,320	4,760	4,596	4,760	19,436
		6-10	1,044	892	812	868	3,616
		11-30	362	312	340	331	1,345
		31-90	37	38	38	50	163
		91-180	3	1	2	1	7
		181-360	4				4
		360+	1				1
	Primary Payor						
		Other	640	674	681	729	2,724
		Commercial	1,023	885	789	774	3,471
		Medicaid	1,492	1,172	1,288	1,294	5,246
		Medicare	3,141	2,817	2,612	2,690	11,260
		Other State/Fed'l Program	135	153	156	189	633
		Self Pay	299	245	220	281	1,045
		Worker's Comp	41	57	42	53	193

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
03-GREEN RIVER							
	Total Hospitalizations						
			7,471	7,268	7,122	7,148	29,009
	State of Residence						
		Out of State	309	316	308	288	1,221
		Kentucky	7,162	6,952	6,814	6,860	27,788
	Gender						
		F	4,472	4,358	4,291	4,256	17,377
		M	2,999	2,910	2,831	2,892	11,632
	Age Group						
		Newborn	409	636	653	603	2,301
		00	178	82	78	80	418
		01-19	524	408	368	400	1,700
		20-64	3,475	3,399	3,523	3,345	13,742
		65-84	2,317	2,200	2,062	2,218	8,797
		85-99	565	542	432	499	2,038
		100+	3	1	6	3	13
	Admission Type						
		Newborn	409	636	653	603	2,301
		Emergency	3,960	3,747	3,713	3,747	15,167
		Urgent	1,068	959	854	956	3,837
		Elective	2,034	1,926	1,902	1,842	7,704
	Length of Stay (days)						
		0-5	5,832	5,741	5,644	5,641	22,858
		6-10	1,114	1,063	1,018	1,035	4,230
		11-30	488	435	433	438	1,794
		31-90	37	27	27	34	125
		91-180		2			2
	Primary Payor						
		Other	125	102	158	130	515
		Commercial	2,290	2,203	2,201	2,108	8,802
		Medicaid	1,156	1,346	1,354	1,288	5,144
		Medicare	3,460	3,240	2,978	3,218	12,896
		Other State/Fed'l Program	29	31	21	30	111
		Self Pay	376	314	370	350	1,410
		Worker's Comp	35	32	40	24	131

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
04-BARREN RIVER							
	Total Hospitalizations						
			10,329	9,428	9,378	9,745	38,880
	State of Residence						
		Out of State	208	185	199	150	742
		Kentucky	10,121	9,243	9,179	9,595	38,138
	Gender						
		F	6,138	5,857	5,803	5,803	23,601
		M	4,189	3,571	3,575	3,938	15,273
		Unknown	2			4	6
	Age Group						
		Newborn	759	796	856	878	3,289
		00	416	167	126	163	872
		01-19	820	475	408	836	2,539
		20-64	4,265	4,264	4,349	4,316	17,194
		65-84	3,216	3,032	2,888	2,850	11,986
		85-99	842	691	746	700	2,979
		100+	11	3	5	2	21
	Admission Type						
		Newborn	759	796	856	878	3,289
		Emergency	4,442	4,024	4,153	4,171	16,790
		Urgent	1,616	1,378	1,225	1,105	5,324
		Elective	3,512	3,228	3,144	3,591	13,475
		Information not available		2			2
	Length of Stay (days)						
		0-5	7,718	7,303	7,259	7,261	29,541
		6-10	1,649	1,430	1,381	1,410	5,870
		11-30	863	661	691	1,031	3,246
		31-90	87	32	47	43	209
		91-180	7	1			8
		181-360	5				5
		360+		1			1
	Primary Payor						
		Other	376	989	952	984	3,301
		Commercial	2,302	1,662	1,770	1,717	7,451
		Medicaid	2,215	1,894	1,768	2,237	8,114
		Medicare	4,815	4,425	4,409	4,295	17,944
		Other State/Fed'l Program	39	37	47	39	162
		Self Pay	545	384	413	436	1,778
		Worker's Comp	37	37	19	37	130

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
05-LINCOLN TRAIL							
	Total Hospitalizations						
			6,294	5,330	5,540	5,614	22,778
	State of Residence						
		Out of State	85	95	82	87	349
		Kentucky	6,209	5,235	5,458	5,527	22,429
	Gender						
		F	3,809	3,184	3,339	3,396	13,728
		M	2,485	2,146	2,201	2,218	9,050
	Age Group						
		Newborn	589	490	605	538	2,222
		00	137	54	32	132	355
		01-19	537	455	402	439	1,833
		20-64	2,742	2,354	2,475	2,548	10,119
		65-84	1,847	1,554	1,653	1,549	6,603
		85-99	436	419	372	408	1,635
		100+	6	4	1		11
	Admission Type						
		Newborn	589	490	605	538	2,222
		Emergency	2,190	1,868	1,788	1,744	7,590
		Urgent	1,683	1,250	1,480	1,388	5,801
		Elective	1,791	1,681	1,617	1,521	6,610
		Information not available	41	41	50	423	555
	Length of Stay (days)						
		0-5	4,612	3,901	4,183	4,274	16,970
		6-10	1,022	877	841	803	3,543
		11-30	614	520	485	508	2,127
		31-90	41	27	27	29	124
		181-360	3	3			6
		360+	2	2	4		8
	Primary Payor						
		Other	94	59	61	70	284
		Commercial	2,053	1,443	1,576	1,673	6,745
		Medicaid	994	1,078	1,142	1,171	4,385
		Medicare	2,704	2,347	2,387	2,301	9,739
		Other State/Fed'l Program	128	110	102	122	462
		Passport MMC				4	4
		Self Pay	312	283	256	261	1,112
		Worker's Comp	9	10	16	12	47

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
06-KENTUCKIANA							
	Total Hospitalizations						
			40,295	38,334	39,110	38,451	156,190
	State of Residence						
		Out of State	3,462	3,421	3,499	3,366	13,748
		Kentucky	36,833	34,913	35,611	35,085	142,442
	Gender						
		F	23,321	22,400	22,876	22,542	91,139
		M	16,974	15,934	16,230	15,909	65,047
		Unknown			4		4
	Age Group						
		Newborn	3,238	3,264	3,431	3,348	13,281
		00	1,080	795	769	855	3,499
		01-19	2,748	2,569	2,592	2,760	10,669
		20-64	19,436	19,088	19,807	19,016	77,347
		65-84	11,344	10,544	10,473	10,276	42,637
		85-99	2,432	2,062	2,019	2,174	8,687
		100+	17	12	19	22	70
	Admission Type						
		Newborn	3,238	3,264	3,431	3,348	13,281
		Emergency	17,303	15,323	15,511	15,829	63,966
		Urgent	3,664	3,225	3,153	3,147	13,189
		Elective	16,054	16,518	17,002	16,120	65,694
		Information not available	36	4	13	7	60
	Length of Stay (days)						
		0-5	28,306	27,477	28,200	27,660	111,643
		6-10	7,236	6,506	6,706	6,504	26,952
		11-30	4,157	3,736	3,701	3,804	15,398
		31-90	529	550	460	435	1,974
		91-180	57	53	37	43	190
		181-360	8	9	4	3	24
		360+	2	3	2	2	9
	Primary Payor						
		Other	10,433	1,384	1,413	1,486	14,716
		Commercial	8,815	14,411	14,798	14,204	52,228
		Medicaid	2,624	4,965	5,017	5,484	18,090
		Medicare	15,454	14,297	14,225	13,895	57,871
		Other State/Fed'l Program	127	272	308	308	1,015
		Passport MMC	804	827	904	809	3,344
		Self Pay	1,772	1,922	2,174	2,053	7,921
		Worker's Comp	266	256	271	212	1,005

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
07-NORTHERN KY							
	Total Hospitalizations						
			12,064	11,773	11,663	11,566	47,066
	State of Residence						
		Out of State	502	502	579	524	2,107
		Kentucky	11,562	11,271	11,084	11,042	44,959
	Gender						
		F	7,476	7,248	7,165	6,994	28,883
		M	4,588	4,525	4,498	4,572	18,183
	Age Group						
		Newborn	1,180	1,263	1,288	1,236	4,967
		00	112	62	53	64	291
		01-19	399	361	370	388	1,518
		20-64	6,015	5,932	6,039	5,870	23,856
		65-84	3,522	3,345	3,134	3,216	13,217
		85-99	832	804	774	786	3,196
		100+	4	6	5	6	21
	Admission Type						
		Newborn	1,180	1,263	1,288	1,236	4,967
		Emergency	5,763	5,620	5,429	5,493	22,305
		Urgent	2,906	2,837	2,838	2,816	11,397
		Elective	2,215	2,053	2,107	2,021	8,396
		Information not available			1		1
	Length of Stay (days)						
		0-5	9,128	9,107	9,116	8,837	36,188
		6-10	1,850	1,711	1,600	1,750	6,911
		11-30	997	892	884	921	3,694
		31-90	87	61	62	57	267
		91-180	2	2	1	1	6
	Primary Payor						
		Other	1,573	1,643	1,608	1,509	6,333
		Commercial	3,549	3,390	3,423	3,447	13,809
		Medicaid	1,561	1,679	1,718	1,741	6,699
		Medicare	4,951	4,677	4,518	4,560	18,706
		Other State/Fed'l Program	58	58	68	53	237
		Self Pay	320	286	295	233	1,134
		Worker's Comp	52	40	33	23	148

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Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
08-BUFFALO TRACE							
	Total Hospitalizations						
			1,550	1,353	1,322	1,421	5,646
	State of Residence						
		Out of State	237	170	191	192	790
		Kentucky	1,313	1,183	1,131	1,229	4,856
	Gender						
		F	936	829	806	849	3,420
		M	614	524	516	572	2,226
	Age Group						
		Newborn	130	100	96	116	442
		00	60	24	13	19	116
		01-19	109	56	75	90	330
		20-64	613	556	551	598	2,318
		65-84	518	496	456	475	1,945
		85-99	119	120	131	123	493
		100+	1	1			2
	Admission Type						
		Newborn	130	100	96	116	442
		Emergency	666	610	584	614	2,474
		Urgent	89	99	146	142	476
		Elective	665	544	496	549	2,254
	Length of Stay (days)						
		0-5	1,368	1,196	1,176	1,253	4,993
		6-10	160	139	117	140	556
		11-30	20	18	29	28	95
		31-90	2				2
	Primary Payor						
		Other	134	101	110	99	444
		Commercial	309	253	241	295	1,098
		Medicaid	336	246	269	275	1,126
		Medicare	734	704	659	696	2,793
		Other State/Fed'l Program	5	3	5	1	14
		Self Pay	28	45	36	54	163
		Worker's Comp	4	1	2	1	8

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Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
09-GATEWAY							
	Total Hospitalizations						
			2,368	2,006	2,037	2,258	8,669
	State of Residence						
		Out of State	11	18	33	17	79
		Kentucky	2,357	1,988	2,004	2,241	8,590
	Gender						
		F	1,412	1,223	1,213	1,348	5,196
		M	956	783	824	910	3,473
	Age Group						
		Newborn	243	198	215	239	895
		00	62	23	6	12	103
		01-19	109	91	97	111	408
		20-64	1,047	978	1,005	1,066	4,096
		65-84	719	546	550	665	2,480
		85-99	186	169	161	160	676
		100+	2	1	3	5	11
	Admission Type						
		Newborn	243	198	215	239	895
		Emergency	1,062	902	865	839	3,668
		Urgent	362	299	320	368	1,349
		Elective	701	607	637	812	2,757
	Length of Stay (days)						
		0-5	1,991	1,694	1,731	1,905	7,321
		6-10	279	223	229	281	1,012
		11-30	93	84	74	69	320
		31-90	5	5	3	3	16
	Primary Payor						
		Other	5	5	7	11	28
		Commercial	507	416	398	438	1,759
		Medicaid	704	601	626	673	2,604
		Medicare	1,087	907	883	1,027	3,904
		Other State/Fed'l Program	1	1	9	7	18
		Self Pay	58	72	108	99	337
		Worker's Comp	6	4	6	3	19

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
10-FIVCO							
	Total Hospitalizations						
			9,781	9,198	9,266	7,523	35,768
	State of Residence						
		Out of State	2,790	2,619	2,723	2,127	10,259
		Kentucky	6,991	6,579	6,543	5,396	25,509
	Gender						
		F	5,605	5,363	5,459	4,409	20,836
		M	4,176	3,835	3,807	3,114	14,932
	Age Group						
		Newborn	394	400	464	418	1,676
		00	333	127	93	92	645
		01-19	782	532	612	471	2,397
		20-64	4,818	4,844	4,877	3,676	18,215
		65-84	2,929	2,800	2,739	2,478	10,946
		85-99	523	493	478	384	1,878
		100+	2	2	3	4	11
	Admission Type						
		Newborn	394	400	464	418	1,676
		Emergency	5,434	5,081	5,033	3,785	19,333
		Urgent	665	585	593	99	1,942
		Elective	3,285	3,130	3,175	3,219	12,809
		Information not available	3	2	1	2	8
	Length of Stay (days)						
		0-5	7,651	7,140	7,535	5,974	28,300
		6-10	1,481	1,513	1,288	1,116	5,398
		11-30	603	514	420	404	1,941
		31-90	46	30	23	29	128
		360+		1			1
	Primary Payor						
		Other	316	290	272	187	1,065
		Commercial	2,080	1,893	2,009	1,295	7,277
		Medicaid	2,091	1,834	1,841	1,184	6,950
		Medicare	4,207	4,143	4,031	3,034	15,415
		Other State/Fed'l Program	438	394	436	763	2,031
		Passport MMC	1	4	8	3	16
		Self Pay	594	588	610	909	2,701
		Worker's Comp	54	52	59	148	313

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
11-BIG SANDY							
	Total Hospitalizations						
			7,288	6,638	6,571	6,379	26,876
	State of Residence						
		Out of State	763	724	690	636	2,813
		Kentucky	6,525	5,914	5,881	5,743	24,063
	Gender						
		F	4,286	3,922	3,924	3,780	15,912
		M	3,002	2,716	2,647	2,599	10,964
	Age Group						
		Newborn	490	426	491	438	1,845
		00	239	112	86	122	559
		01-19	600	447	422	521	1,990
		20-64	3,409	3,156	3,232	3,053	12,850
		65-84	2,114	2,055	1,931	1,897	7,997
		85-99	432	437	406	346	1,621
		100+	4	5	3	2	14
	Admission Type						
		Newborn	490	426	491	438	1,845
		Emergency	2,748	2,410	2,418	2,313	9,889
		Urgent	2,507	2,375	2,235	2,353	9,470
		Elective	1,543	1,426	1,427	1,275	5,671
		Information not available		1			1
	Length of Stay (days)						
		0-5	5,603	5,146	5,118	4,973	20,840
		6-10	1,143	1,008	1,005	1,026	4,182
		11-30	504	441	423	356	1,724
		31-90	38	43	24	23	128
		91-180			1	1	2
	Primary Payor						
		Other	411	582	597	617	2,207
		Commercial	1,200	976	1,186	1,184	4,546
		Medicaid	2,079	1,598	1,635	1,505	6,817
		Medicare	3,090	2,965	2,706	2,618	11,379
		Other State/Fed'l Program	73	69	71	81	294
		Self Pay	310	331	278	284	1,203
		Worker's Comp	125	117	98	90	430

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
12-KY RIVER							
	Total Hospitalizations						
			6,612	6,302	5,775	5,956	24,645
	State of Residence						
		Out of State	135	131	102	130	498
		Kentucky	6,477	6,171	5,673	5,826	24,147
	Gender						
		F	3,658	3,522	3,184	3,316	13,680
		M	2,954	2,780	2,591	2,640	10,965
	Age Group						
		Newborn	250	217	214	207	888
		00	190	85	37	85	397
		01-19	470	379	268	371	1,488
		20-64	3,501	3,507	3,411	3,323	13,742
		65-84	1,863	1,775	1,564	1,624	6,826
		85-99	331	336	280	346	1,293
		100+	7	3	1		11
	Admission Type						
		Newborn	250	217	214	207	888
		Emergency	2,238	2,121	1,946	1,967	8,272
		Urgent	3,267	3,018	2,801	3,016	12,102
		Elective	857	946	814	766	3,383
	Length of Stay (days)						
		0-5	5,151	5,007	4,407	4,630	19,195
		6-10	987	863	861	867	3,578
		11-30	448	401	459	423	1,731
		31-90	25	30	48	35	138
		91-180		1		1	2
		181-360	1				1
	Primary Payor						
		Other	595	502	421	438	1,956
		Commercial	550	516	470	419	1,955
		Medicaid	2,057	1,956	1,816	1,905	7,734
		Medicare	2,758	2,702	2,400	2,514	10,374
		Other State/Fed'l Program	40	30	21	20	111
		Self Pay	593	578	622	641	2,434
		Worker's Comp	19	18	25	19	81

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
13-CUMBERLAND VALLEY							
	Total Hospitalizations						
			9,855	9,092	9,297	9,412	37,656
	State of Residence						
		Out of State	327	312	324	320	1,283
		Kentucky	9,528	8,780	8,973	9,092	36,373
	Gender						
		F	5,822	5,589	5,675	5,628	22,714
		M	4,033	3,503	3,622	3,784	14,942
	Age Group						
		Newborn	592	556	637	597	2,382
		00	285	126	93	153	657
		01-19	808	581	585	707	2,681
		20-64	4,703	4,598	4,799	4,734	18,834
		65-84	2,798	2,600	2,597	2,569	10,564
		85-99	658	623	573	638	2,492
		100+	11	8	13	14	46
	Admission Type						
		Newborn	592	556	637	597	2,382
		Emergency	5,012	4,628	4,704	4,662	19,006
		Urgent	2,726	2,351	2,303	2,446	9,826
		Elective	1,519	1,554	1,648	1,701	6,422
		Information not available	6	3	5	6	20
	Length of Stay (days)						
		0-5	7,706	7,201	7,457	7,415	29,779
		6-10	1,549	1,337	1,317	1,430	5,633
		11-30	577	527	504	548	2,156
		31-90	22	26	19	19	86
		91-180	1	1			2
	Primary Payor						
		Other	303	308	287	338	1,236
		Commercial	1,720	1,671	1,584	1,664	6,639
		Medicaid	3,331	2,993	3,201	3,184	12,709
		Medicare	4,030	3,729	3,802	3,775	15,336
		Other State/Fed'l Program	65	52	66	76	259
		Passport MMC			1		1
		Self Pay	371	293	309	338	1,311
		Worker's Comp	35	46	47	37	165

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
14-LAKE CUMBERLAND							
	Total Hospitalizations						
			6,906	6,433	6,301	6,507	26,147
	State of Residence						
		Out of State	64	68	90	59	281
		Kentucky	6,842	6,365	6,211	6,448	25,866
	Gender						
		F	4,106	3,986	3,835	3,925	15,852
		M	2,800	2,447	2,466	2,582	10,295
	Age Group						
		Newborn	451	426	415	439	1,731
		00	285	129	96	130	640
		01-19	574	342	343	471	1,730
		20-64	2,978	2,955	3,074	2,994	12,001
		65-84	1,969	1,995	1,874	2,001	7,839
		85-99	646	584	495	469	2,194
		100+	3	2	4	3	12
	Admission Type						
		Newborn	451	426	415	439	1,731
		Emergency	2,509	2,646	2,561	2,370	10,086
		Urgent	1,356	1,071	1,026	1,130	4,583
		Elective	2,590	2,290	2,299	2,567	9,746
		Information not available				1	1
	Length of Stay (days)						
		0-5	5,201	4,971	4,874	5,061	20,107
		6-10	1,175	1,052	1,013	1,027	4,267
		11-30	511	395	398	406	1,710
		31-90	19	15	14	13	61
		91-180			2		2
	Primary Payor						
		Other	596	478	641	664	2,379
		Commercial	1,186	1,178	638	711	3,713
		Medicaid	1,916	1,642	1,734	1,794	7,086
		Medicare	2,877	2,811	3,064	3,115	11,867
		Other State/Fed'l Program	32	37	38	42	149
		Passport MMC		1	6	10	17
		Self Pay	134	137	148	151	570
		Worker's Comp	165	149	32	20	366

2004 ANNUAL HOSPITAL UTILIZATION AND SERVICES REPORT

Table 20.2 - Selected Category Summary by Quarter, Hospital ADDs

(Source: Kentucky Inpatient Discharge Claims)

ADD	Category	Group	1Q04	2Q04	3Q04	4Q04	Grand Total
15-BLUEGRASS							
	Total Hospitalizations						
			28,360	27,177	27,406	28,169	111,112
	State of Residence						
		Out of State	363	411	436	374	1,584
		Kentucky	27,997	26,766	26,970	27,795	109,528
	Gender						
		F	16,857	16,353	16,449	16,542	66,201
		M	11,498	10,818	10,955	11,621	44,892
		Unknown	5	6	2	6	19
	Age Group						
		Newborn	2,598	2,710	2,765	2,714	10,787
		00	626	404	370	427	1,827
		01-19	1,783	1,355	1,470	2,016	6,624
		20-64	13,697	13,536	13,747	14,214	55,194
		65-84	7,916	7,683	7,553	7,333	30,485
		85-99	1,720	1,481	1,488	1,462	6,151
		100+	20	8	13	3	44
	Admission Type						
		Newborn	2,598	2,710	2,765	2,714	10,787
		Emergency	10,527	9,423	9,248	9,050	38,248
		Urgent	3,594	3,662	4,141	5,372	16,769
		Elective	11,545	11,270	11,121	10,914	44,850
		Trauma Center	44	72	87	110	313
		Information not available	52	40	44	9	145
	Length of Stay (days)						
		0-5	21,316	20,962	21,135	21,427	84,840
		6-10	4,588	4,039	4,122	4,414	17,163
		11-30	2,222	1,954	1,963	2,074	8,213
		31-90	223	210	181	247	861
		91-180	11	9	5	6	31
		181-360		2			2
		360+		1		1	2
	Primary Payor						
		Other	2,931	2,381	1,851	2,007	9,170
		Commercial	8,654	8,783	8,692	8,891	35,020
		Medicaid	5,280	4,834	5,214	5,818	21,146
		Medicare	10,524	10,094	10,422	10,148	41,188
		Other State/Fed'l Program	211	222	238	246	917
		Passport MMC		8	10	5	23
		Self Pay	607	578	636	704	2,525
		Worker's Comp	153	277	343	350	1,123

Asthma hospitalization rate, children age 0-4, Kentucky, 2000-2004

(Prepared by Kentucky Department for Public Health, Health Policy Branch, 6/29/05)

Year	2000	2001	2002	2003	2004
Cases	1195	1605	1644	1834	1652
Rate	44.9	60.4	61.5	68.8	62.0
Population	265901	265647	267157	266635	266614

Note - Population data source: Estimates of the Resident Population by Single-Year of Age and Sex for the U.S. and States: July 1, 2004. Released March 10, 2005 by the Population Estimates Program, U.S. Bureau of the Census

Inpatient Hospitalizations, Asthma-Primary Diagnosis: ICD9 493-493.92
Kentucky Residents, Kentucky Hospitals, 2002-2004

Year	GENDER	Cases	Mean Age	Mean LOS	Mean Chrg.
2002		**6,795**	**34.1**	**3.3**	**$6,023**
	F	4,298	41.3	3.6	$6,399
	M	2,497	21.8	2.8	$5,376
2003		**7,964**	**35.2**	**3.4**	**$7,516**
	F	5,088	42.1	3.7	$7,915
	M	2,876	22.9	2.9	$6,811
2004		**7,301**	**36.4**	**3.5**	**$7,995**
	F	4,656	43.4	3.8	$8,530
	M	2,645	24.1	2.9	$7,052
Grand Total		**22,060**	**35.3**	**3.4**	**$7,215**

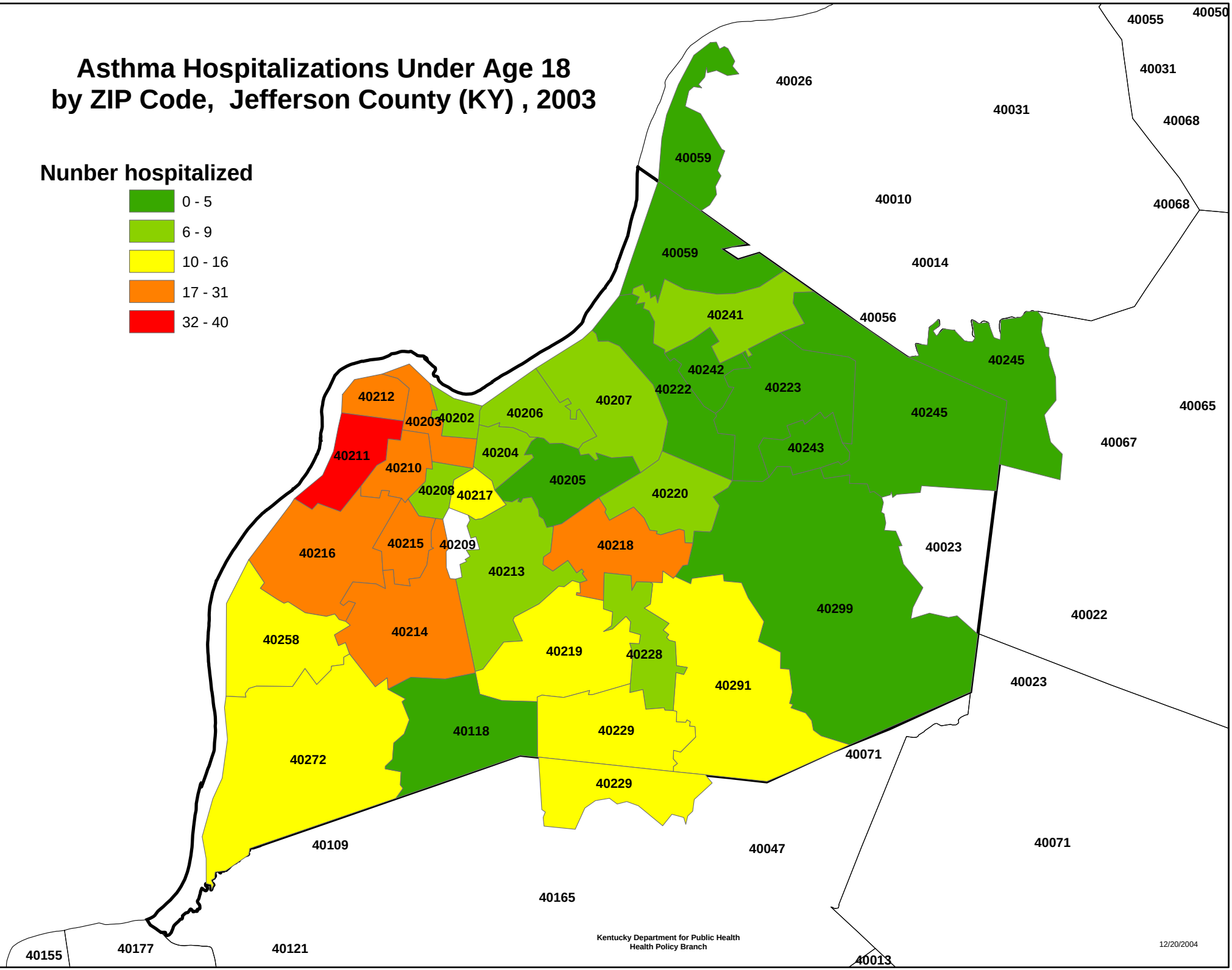
(Source: Kentucky Hospital Inpatient Discharge Claims, 2002-2004; KYDPH/HPAB)

Asthma Inpatient Discharges 2003
Jefferson County Residents by ZIP and Age
(Source: Kentucky Hospital Inpatient Discharge Claims, 2003;
Kentucky Department for Public Health, Health Policy Branch)

PATIENT ZIP	AGE 0-17	AGE 18+	Grand Total
40211 LOUISVILLE	40	58	98
40216 LOUISVILLE	26	70	96
40215 LOUISVILLE	30	57	87
40212 LOUISVILLE	29	54	83
40214 LOUISVILLE	27	51	78
40210 LOUISVILLE	31	43	74
40203 LOUISVILLE	23	51	74
40272 LOUISVILLE	16	54	70
40218 LOUISVILLE	28	35	63
40219 LOUISVILLE	16	42	58
40258 LOUISVILLE	11	33	44
40220 LOUISVILLE	9	30	39
40229 LOUISVILLE	13	24	37
40291 LOUISVILLE	11	25	36
40208 LOUISVILLE	8	22	30
40204 LOUISVILLE	8	22	30
40299 LOUISVILLE	5	21	26
40217 LOUISVILLE	11	14	25
40207 LOUISVILLE	7	15	22
40118 FAIRDALE	<5	18	21
40213 LOUISVILLE	7	14	21
40228 LOUISVILLE	7	13	20
40202 LOUISVILLE	6	14	20
40241 LOUISVILLE	7	12	19
40059 PROSPECT	<5	14	18
40205 LOUISVILLE	<5	14	16
40222 LOUISVILLE	5	11	16
40206 LOUISVILLE	7	7	14
40223 LOUISVILLE	<5	8	12
40243 LOUISVILLE	<5	9	10
40245 LOUISVILLE	<5	<5	7
40201 LOUISVILLE	<5	<5	<5
40242 LOUISVILLE	<5	<5	<5
40041 MASONIC HOM	<5	<5	<5
40269 LOUISVILLE	<5	<5	<5
40268 LOUISVILLE	<5	<5	<5
40292 LOUISVILLE	<5	<5	<5
Grand Total	407	868	1275

Note: Fewer than five cases are denoted as <5.

Asthma Hospitalizations Under Age 18 by ZIP Code, Jefferson County (KY) , 2003



Mammograms (CPT 76090-76092 in any of six procedure fields)
Kentucky Residents, Kentucky Hospital AS Centers, 2003
(Source: Kentucky Hospital Outpatient Claims, 2003; Kentucky Department for Public Health, Health Policy Branch)

01-PURCHASE			**7121**
	AGE GROUP 15-19		3
		COMMERCIAL - INDEMNITY	1
		COMMERCIAL - PREFERRED PROVIDER	1
		MEDICAID	1
	AGE GROUP 20-24		13
		COMMERCIAL - HMO	6
		COMMERCIAL - INDEMNITY	2
		COMMERCIAL - PREFERRED PROVIDER	3
		MEDICARE	1
		SELF PAY	1
	AGE GROUP 25-44		1298
		OTHER	223
		CHAMPUS	16
		COMMERCIAL - HMO	343
		COMMERCIAL - INDEMNITY	197
		COMMERCIAL - MANAGED CARE	37
		COMMERCIAL - PREFERRED PROVIDER	340
		COMMERCIAL - UNKNOWN	5
		MEDICAID	66
		MEDICARE	45
		SELF PAY	26
	AGE GROUP 45-64		3657
		OTHER	594
		CHAMPUS	45
		COMMERCIAL - HMO	905
		COMMERCIAL - INDEMNITY	392
		COMMERCIAL - MANAGED CARE	86
		COMMERCIAL - PREFERRED PROVIDER	1112
		COMMERCIAL - UNKNOWN	14
		MEDICAID	143
		MEDICARE	278
		SELF PAY	87
		WORKERS COMPENSATION	1
	AGE GROUP 65+		2150
		OTHER	17
		COMMERCIAL - HMO	10
		COMMERCIAL - INDEMNITY	10
		COMMERCIAL - MANAGED CARE	1
		COMMERCIAL - PREFERRED PROVIDER	24
		COMMERCIAL - UNKNOWN	1
		MEDICAID	4
		MEDICARE	2083
02-PENNYRILE			**3287**
	AGE GROUP 15-19		2
		OTHER	1
		COMMERCIAL - INDEMNITY	1
	AGE GROUP 20-24		5
		OTHER	2
		COMMERCIAL - INDEMNITY	2
		COMMERCIAL - UNKNOWN	1

	AGE GROUP 25-44		502
		OTHER	44
		CHAMPUS	2
		COMMERCIAL - HMO	47
		COMMERCIAL - INDEMNITY	186
		COMMERCIAL - MANAGED CARE	5
		COMMERCIAL - PREFERRED PROVIDER	20
		COMMERCIAL - UNKNOWN	122
		MEDICAID	34
		MEDICARE	38
		SELF PAY	4
	AGE GROUP 45-64		1756
		OTHER	162
		CHAMPUS	24
		COMMERCIAL - HMO	110
		COMMERCIAL - INDEMNITY	683
		COMMERCIAL - MANAGED CARE	15
		COMMERCIAL - PREFERRED PROVIDER	86
		COMMERCIAL - UNKNOWN	391
		MEDICAID	79
		MEDICARE	198
		SELF PAY	8
	AGE GROUP 65+		1022
		OTHER	7
		COMMERCIAL - INDEMNITY	16
		COMMERCIAL - PREFERRED PROVIDER	2
		COMMERCIAL - UNKNOWN	80
		MEDICAID	13
		MEDICARE	904
03-GREEN RIVER			**5535**
	AGE GROUP 15-19		2
		COMMERCIAL - UNKNOWN	1
		MEDICARE	1
	AGE GROUP 20-24		2
		COMMERCIAL - UNKNOWN	1
		MEDICAID	1
	AGE GROUP 25-44		883
		OTHER	5
		CHAMPUS	1
		COMMERCIAL - INDEMNITY	1
		COMMERCIAL - MANAGED CARE	56
		COMMERCIAL - PREFERRED PROVIDER	4
		COMMERCIAL - UNKNOWN	720
		MEDICAID	55
		MEDICARE	41
	AGE GROUP 45-64		3056
		OTHER	15
		CHAMPUS	18
		COMMERCIAL - HMO	2
		COMMERCIAL - INDEMNITY	2
		COMMERCIAL - MANAGED CARE	284

		COMMERCIAL - PREFERRED PROVIDER	3
		COMMERCIAL - UNKNOWN	2373
		MEDICAID	112
		MEDICARE	246
		SELF PAY	1
	AGE GROUP 65+		1592
		OTHER	1
		COMMERCIAL - MANAGED CARE	8
		COMMERCIAL - UNKNOWN	58
		MEDICAID	6
		MEDICARE	1519
04-BARREN RIVER			**3009**
	AGE GROUP 15-19		1
		MEDICAID	1
	AGE GROUP 20-24		9
		OTHER	1
		COMMERCIAL - INDEMNITY	2
		COMMERCIAL - PREFERRED PROVIDER	2
		MEDICAID	2
		SELF PAY	2
	AGE GROUP 25-44		480
		OTHER	112
		CHAMPUS	6
		COMMERCIAL - HMO	13
		COMMERCIAL - INDEMNITY	37
		COMMERCIAL - MANAGED CARE	1
		COMMERCIAL - PREFERRED PROVIDER	233
		COMMERCIAL - UNKNOWN	13
		MEDICAID	36
		MEDICARE	19
		SELF PAY	10
	AGE GROUP 45-64		1536
		OTHER	322
		CHAMPUS	17
		COMMERCIAL - HMO	59
		COMMERCIAL - INDEMNITY	107
		COMMERCIAL - MANAGED CARE	4
		COMMERCIAL - PREFERRED PROVIDER	757
		COMMERCIAL - UNKNOWN	35
		MEDICAID	87
		MEDICARE	122
		SELF PAY	26
	AGE GROUP 65+		983
		OTHER	3
		COMMERCIAL - HMO	1
		COMMERCIAL - INDEMNITY	3
		COMMERCIAL - PREFERRED PROVIDER	22
		COMMERCIAL - UNKNOWN	2
		MEDICAID	2
		MEDICARE	950

05-LINCOLN TRAIL			**6379**
	AGE GROUP 15-19		1
		COMMERCIAL - INDEMNITY	1
	AGE GROUP 20-24		4
		OTHER	1
		COMMERCIAL - HMO	1
		COMMERCIAL - PREFERRED PROVIDER	1
		MEDICAID	1
	AGE GROUP 25-44		1373
		OTHER	474
		CHAMPUS	1
		COMMERCIAL - HMO	52
		COMMERCIAL - INDEMNITY	310
		COMMERCIAL - MANAGED CARE	312
		COMMERCIAL - PREFERRED PROVIDER	55
		COMMERCIAL - UNKNOWN	79
		MEDICAID	42
		MEDICARE	34
		SELF PAY	13
		WORKERS COMPENSATION	1
	AGE GROUP 45-64		3404
		OTHER	1101
		CHAMPUS	3
		COMMERCIAL - HMO	225
		COMMERCIAL - INDEMNITY	637
		COMMERCIAL - MANAGED CARE	743
		COMMERCIAL - PREFERRED PROVIDER	181
		COMMERCIAL - UNKNOWN	210
		MEDICAID	60
		MEDICARE	215
		PASSPORT MEDICAID MANAGED CARE	1
		SELF PAY	28
	AGE GROUP 65+		1597
		OTHER	35
		COMMERCIAL - HMO	5
		COMMERCIAL - INDEMNITY	20
		COMMERCIAL - MANAGED CARE	14
		COMMERCIAL - PREFERRED PROVIDER	7
		COMMERCIAL - UNKNOWN	4
		MEDICAID	1
		MEDICARE	1509
		SELF PAY	2
06-KENTUCKIANA			**34568**
	AGE GROUP 5-14		1
		OTHER	1
	AGE GROUP 15-19		16
		OTHER	9
		COMMERCIAL - HMO	3
		COMMERCIAL - MANAGED CARE	2
		COMMERCIAL - UNKNOWN	1
		MEDICAID	1

	AGE GROUP 20-24		52
		OTHER	23
		COMMERCIAL - HMO	8
		COMMERCIAL - INDEMNITY	1
		COMMERCIAL - MANAGED CARE	3
		COMMERCIAL - PREFERRED PROVIDER	3
		COMMERCIAL - UNKNOWN	10
		MEDICAID	1
		MEDICARE	2
		SELF PAY	1
	AGE GROUP 25-44		5672
		OTHER	1825
		CHAMPUS	18
		COMMERCIAL - HMO	1603
		COMMERCIAL - INDEMNITY	517
		COMMERCIAL - MANAGED CARE	111
		COMMERCIAL - PREFERRED PROVIDER	728
		COMMERCIAL - UNKNOWN	667
		MEDICAID	51
		MEDICARE	110
		PASSPORT MEDICAID MANAGED CARE	11
		SELF PAY	27
		WORKERS COMPENSATION	4
	AGE GROUP 45-64		17809
		OTHER	5716
		CHAMPUS	65
		COMMERCIAL - HMO	4871
		COMMERCIAL - INDEMNITY	1639
		COMMERCIAL - MANAGED CARE	256
		COMMERCIAL - PREFERRED PROVIDER	2091
		COMMERCIAL - UNKNOWN	2155
		MEDICAID	86
		MEDICARE	859
		PASSPORT MEDICAID MANAGED CARE	20
		SELF PAY	50
		WORKERS COMPENSATION	1
	AGE GROUP 65+		11018
		OTHER	371
		COMMERCIAL - HMO	249
		COMMERCIAL - INDEMNITY	60
		COMMERCIAL - MANAGED CARE	4
		COMMERCIAL - PREFERRED PROVIDER	54
		COMMERCIAL - UNKNOWN	113
		MEDICAID	12
		MEDICARE	10148
		PASSPORT MEDICAID MANAGED CARE	2
		SELF PAY	5
07-NORTHERN KY			**1223**
	AGE GROUP 20-24		2
		COMMERCIAL - PREFERRED PROVIDER	1
		MEDICAID	1

	AGE GROUP 25-44		253
		OTHER	76
		CHAMPUS	2
		COMMERCIAL - HMO	71
		COMMERCIAL - INDEMNITY	31
		COMMERCIAL - PREFERRED PROVIDER	41
		COMMERCIAL - UNKNOWN	16
		MEDICAID	5
		MEDICARE	8
		PASSPORT MEDICAID MANAGED CARE	1
		SELF PAY	2
	AGE GROUP 45-64		651
		OTHER	138
		CHAMPUS	1
		COMMERCIAL - HMO	202
		COMMERCIAL - INDEMNITY	70
		COMMERCIAL - PREFERRED PROVIDER	116
		COMMERCIAL - UNKNOWN	64
		MEDICAID	26
		MEDICARE	31
		SELF PAY	3
	AGE GROUP 65+		317
		OTHER	66
		COMMERCIAL - HMO	4
		COMMERCIAL - INDEMNITY	1
		COMMERCIAL - PREFERRED PROVIDER	5
		MEDICAID	2
		MEDICARE	239
08-BUFFALO TRACE			**2611**
	AGE GROUP 20-24		1
		MEDICARE	1
	AGE GROUP 25-44		408
		OTHER	70
		COMMERCIAL - HMO	9
		COMMERCIAL - INDEMNITY	10
		COMMERCIAL - PREFERRED PROVIDER	75
		COMMERCIAL - UNKNOWN	163
		MEDICAID	49
		MEDICARE	21
		SELF PAY	11
	AGE GROUP 45-64		1340
		OTHER	244
		CHAMPUS	11
		COMMERCIAL - HMO	46
		COMMERCIAL - INDEMNITY	30
		COMMERCIAL - PREFERRED PROVIDER	270
		COMMERCIAL - UNKNOWN	481
		MEDICAID	116
		MEDICARE	130
		SELF PAY	12
	AGE GROUP 65+		862

		OTHER	2
		COMMERCIAL - HMO	1
		COMMERCIAL - INDEMNITY	1
		COMMERCIAL - PREFERRED PROVIDER	14
		COMMERCIAL - UNKNOWN	13
		MEDICAID	7
		MEDICARE	823
		SELF PAY	1
09-GATEWAY			**2466**
	AGE GROUP 20-24		1
		MEDICAID	1
	AGE GROUP 25-44		541
		OTHER	1
		CHAMPUS	3
		COMMERCIAL - HMO	99
		COMMERCIAL - INDEMNITY	23
		COMMERCIAL - UNKNOWN	349
		MEDICAID	42
		MEDICARE	22
		SELF PAY	2
	AGE GROUP 45-64		1430
		OTHER	4
		CHAMPUS	13
		COMMERCIAL - HMO	262
		COMMERCIAL - INDEMNITY	48
		COMMERCIAL - PREFERRED PROVIDER	8
		COMMERCIAL - UNKNOWN	882
		MEDICAID	114
		MEDICARE	96
		SELF PAY	3
	AGE GROUP 65+		494
		CHAMPUS	1
		COMMERCIAL - HMO	5
		COMMERCIAL - INDEMNITY	3
		COMMERCIAL - PREFERRED PROVIDER	1
		COMMERCIAL - UNKNOWN	26
		MEDICAID	6
		MEDICARE	452
10-FIVCO			**116**
	AGE GROUP 5-14		1
		COMMERCIAL - INDEMNITY	1
	AGE GROUP 25-44		23
		COMMERCIAL - HMO	4
		COMMERCIAL - INDEMNITY	7
		COMMERCIAL - UNKNOWN	1
		MEDICAID	11
	AGE GROUP 45-64		71
		OTHER	1
		CHAMPUS	1
		COMMERCIAL - HMO	24

		COMMERCIAL - INDEMNITY	11
		COMMERCIAL - PREFERRED PROVIDER	2
		COMMERCIAL - UNKNOWN	10
		MEDICAID	5
		MEDICARE	9
		OTHER FEDERAL PROGRAMS	6
		SELF PAY	2
	AGE GROUP 65+		21
		MEDICARE	21
11-BIG SANDY			**1333**
	AGE GROUP 5-14		1
		COMMERCIAL - INDEMNITY	1
	AGE GROUP 15-19		1
		MEDICAID	1
	AGE GROUP 20-24		5
		COMMERCIAL - INDEMNITY	4
		MEDICAID	1
	AGE GROUP 25-44		318
		COMMERCIAL - HMO	91
		COMMERCIAL - INDEMNITY	110
		COMMERCIAL - PREFERRED PROVIDER	3
		MEDICAID	56
		MEDICARE	8
		OTHER FEDERAL PROGRAMS	44
		SELF PAY	6
	AGE GROUP 45-64		747
		OTHER	3
		CHAMPUS	8
		COMMERCIAL - HMO	237
		COMMERCIAL - INDEMNITY	232
		COMMERCIAL - PREFERRED PROVIDER	6
		COMMERCIAL - UNKNOWN	2
		MEDICAID	101
		MEDICARE	83
		OTHER FEDERAL PROGRAMS	62
		SELF PAY	13
	AGE GROUP 65+		261
		COMMERCIAL - HMO	10
		COMMERCIAL - INDEMNITY	13
		MEDICAID	2
		MEDICARE	235
		OTHER FEDERAL PROGRAMS	1
12-KY RIVER			**1279**
	AGE GROUP 20-24		1
		OTHER	1
	AGE GROUP 25-44		253
		OTHER	36
		COMMERCIAL - HMO	84
		COMMERCIAL - INDEMNITY	25
		COMMERCIAL - MANAGED CARE	15

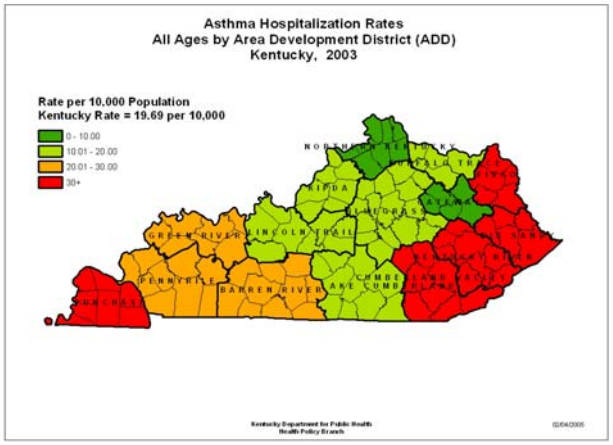
		COMMERCIAL - PREFERRED PROVIDER	39
		COMMERCIAL - UNKNOWN	9
		MEDICAID	33
		MEDICARE	6
		OTHER FEDERAL PROGRAMS	3
		SELF PAY	3
	AGE GROUP 45-64		738
		OTHER	68
		CHAMPUS	3
		COMMERCIAL - HMO	286
		COMMERCIAL - INDEMNITY	50
		COMMERCIAL - MANAGED CARE	41
		COMMERCIAL - PREFERRED PROVIDER	139
		COMMERCIAL - UNKNOWN	12
		MEDICAID	65
		MEDICARE	64
		SELF PAY	10
	AGE GROUP 65+		287
		OTHER	1
		COMMERCIAL - HMO	6
		COMMERCIAL - INDEMNITY	1
		COMMERCIAL - MANAGED CARE	3
		COMMERCIAL - PREFERRED PROVIDER	7
		COMMERCIAL - UNKNOWN	1
		MEDICAID	4
		MEDICARE	264
13-CUMBERLAND VALLEY			**7012**
	AGE GROUP 15-19		6
		CHAMPUS	1
		COMMERCIAL - HMO	1
		COMMERCIAL - INDEMNITY	2
		MEDICAID	2
	AGE GROUP 20-24		18
		COMMERCIAL - HMO	4
		COMMERCIAL - INDEMNITY	1
		COMMERCIAL - PREFERRED PROVIDER	1
		MEDICAID	10
		MEDICARE	1
		SELF PAY	1
	AGE GROUP 25-44		1558
		OTHER	124
		CHAMPUS	9
		COMMERCIAL - HMO	486
		COMMERCIAL - INDEMNITY	337
		COMMERCIAL - MANAGED CARE	31
		COMMERCIAL - PREFERRED PROVIDER	174
		COMMERCIAL - UNKNOWN	72
		MEDICAID	241
		MEDICARE	61
		SELF PAY	23
	AGE GROUP 45-64		3814

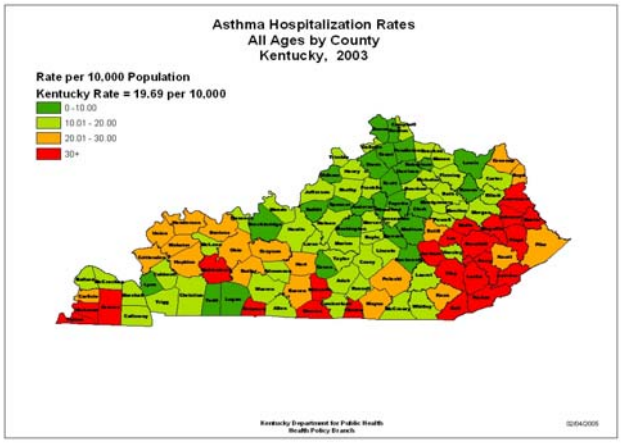
		OTHER	274
		CHAMPUS	51
		COMMERCIAL - HMO	1164
		COMMERCIAL - INDEMNITY	750
		COMMERCIAL - MANAGED CARE	38
		COMMERCIAL - PREFERRED PROVIDER	392
		COMMERCIAL - UNKNOWN	163
		MEDICAID	478
		MEDICARE	458
		SELF PAY	46
	AGE GROUP 65+		1616
		OTHER	7
		COMMERCIAL - HMO	26
		COMMERCIAL - INDEMNITY	18
		COMMERCIAL - MANAGED CARE	5
		COMMERCIAL - PREFERRED PROVIDER	13
		COMMERCIAL - UNKNOWN	6
		MEDICAID	23
		MEDICARE	1518
14-LAKE CUMBERLAND			**7697**
	AGE GROUP 15-19		4
		MEDICAID	4
	AGE GROUP 20-24		9
		OTHER	2
		COMMERCIAL - HMO	1
		COMMERCIAL - UNKNOWN	3
		MEDICAID	2
		MEDICARE	1
	AGE GROUP 25-44		1506
		OTHER	447
		CHAMPUS	5
		COMMERCIAL - HMO	197
		COMMERCIAL - INDEMNITY	27
		COMMERCIAL - MANAGED CARE	17
		COMMERCIAL - PREFERRED PROVIDER	271
		COMMERCIAL - UNKNOWN	210
		MEDICAID	210
		MEDICARE	103
		SELF PAY	19
	AGE GROUP 45-64		4400
		OTHER	1154
		CHAMPUS	34
		COMMERCIAL - HMO	747
		COMMERCIAL - INDEMNITY	100
		COMMERCIAL - MANAGED CARE	22
		COMMERCIAL - PREFERRED PROVIDER	671
		COMMERCIAL - UNKNOWN	602
		MEDICAID	441
		MEDICARE	591
		SELF PAY	38
	AGE GROUP 65+		1778

		OTHER	23
		COMMERCIAL - HMO	14
		COMMERCIAL - INDEMNITY	5
		COMMERCIAL - PREFERRED PROVIDER	12
		COMMERCIAL - UNKNOWN	10
		MEDICAID	18
		MEDICARE	1695
		SELF PAY	1
15-BLUEGRASS			**27157**
	AGE GROUP 0-4		11
		COMMERCIAL - INDEMNITY	1
		WORKERS COMPENSATION	10
	AGE GROUP 5-14		1
		COMMERCIAL - UNKNOWN	1
	AGE GROUP 15-19		5
		COMMERCIAL - HMO	3
		MEDICAID	2
	AGE GROUP 20-24		29
		OTHER	1
		CHAMPUS	1
		COMMERCIAL - HMO	11
		COMMERCIAL - INDEMNITY	3
		COMMERCIAL - PREFERRED PROVIDER	7
		MEDICAID	6
	AGE GROUP 25-44		6124
		OTHER	326
		CHAMPUS	37
		COMMERCIAL - HMO	3338
		COMMERCIAL - INDEMNITY	941
		COMMERCIAL - MANAGED CARE	54
		COMMERCIAL - PREFERRED PROVIDER	1029
		COMMERCIAL - UNKNOWN	43
		MEDICAID	217
		MEDICARE	91
		SELF PAY	48
	AGE GROUP 45-64		14630
		OTHER	669
		CHAMPUS	103
		COMMERCIAL - HMO	7455
		COMMERCIAL - INDEMNITY	2404
		COMMERCIAL - MANAGED CARE	149
		COMMERCIAL - PREFERRED PROVIDER	2647
		COMMERCIAL - UNKNOWN	78
		MEDICAID	330
		MEDICARE	661
		OTHER FEDERAL PROGRAMS	6
		SELF PAY	127
		WORKERS COMPENSATION	1
	AGE GROUP 65+		6357
		OTHER	15
		COMMERCIAL - HMO	168

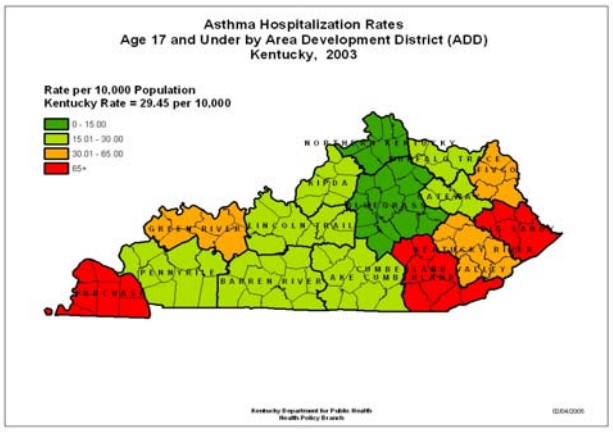
Mammograms (CPT 76090-76092 in any of six procedure fields)
Kentucky Residents, Kentucky Hospital AS Centers, 2003
(Source: Kentucky Hospital Outpatient Claims, 2003; Kentucky Department for Public Health, Health Policy Branch)

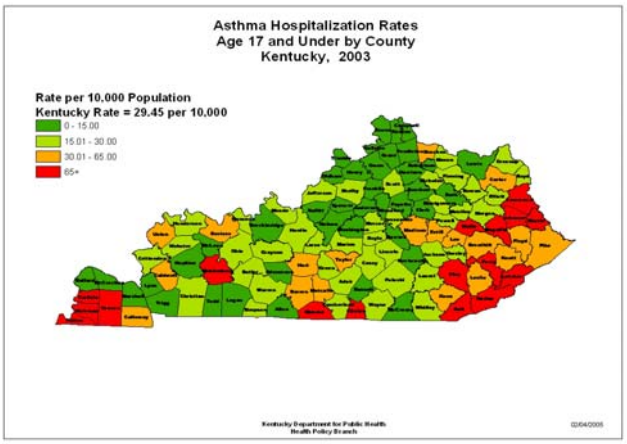
COMMERCIAL - INDEMNITY	89
COMMERCIAL - MANAGED CARE	3
COMMERCIAL - PREFERRED PROVIDER	72
COMMERCIAL - UNKNOWN	1
MEDICAID	23
MEDICARE	5984
SELF PAY	2
Grand Total	**110793**



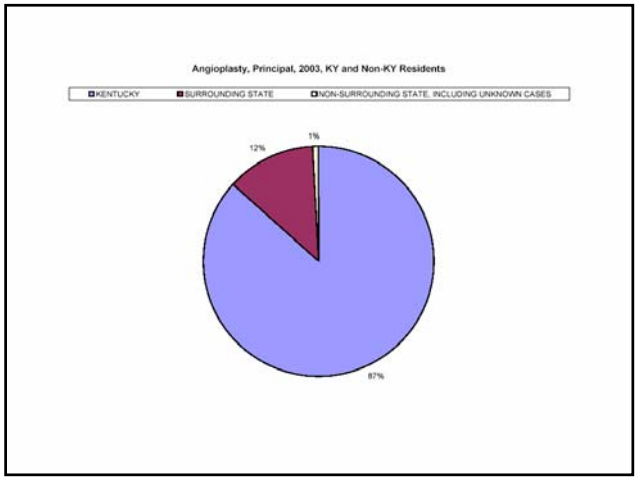


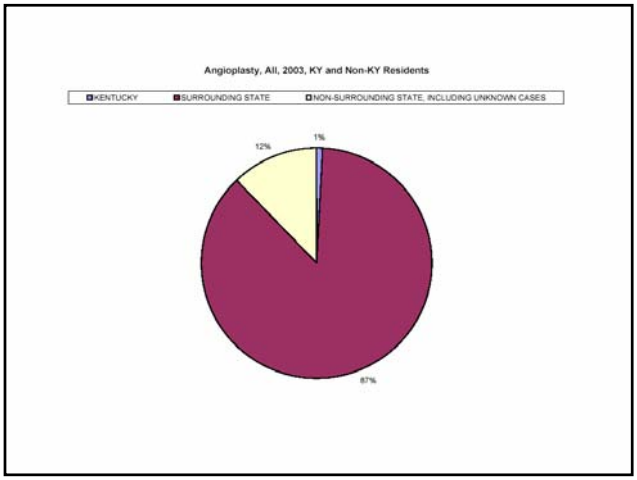
Asthma Hospitalization rates by ADD and County, All Ages, Kentucky, 2003

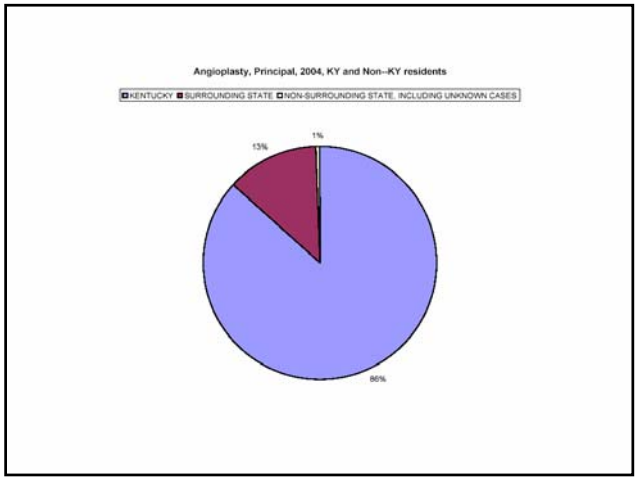


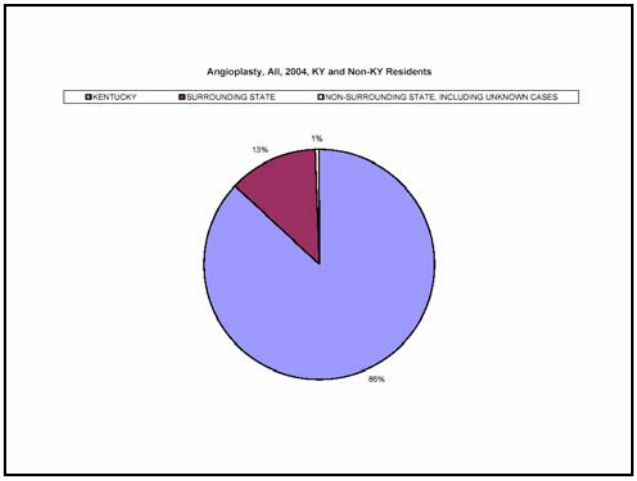


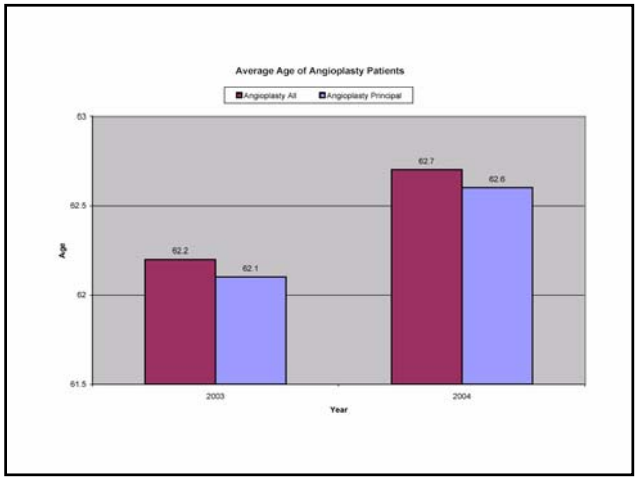
Asthma Hospitalization rates by ADD and County, Age 17 and Under, Kentucky, 2003

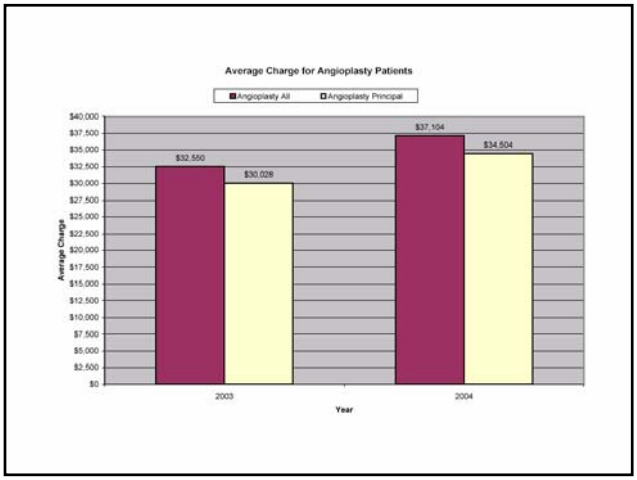

Angioplasty, Principal, 2003, KY and Non-KY Residents
KENTUCKY
SURROUNDING STATE
NON-SURROUNDING STATE, INCLUDING UNKNOWN CASES
1%
12%
87%

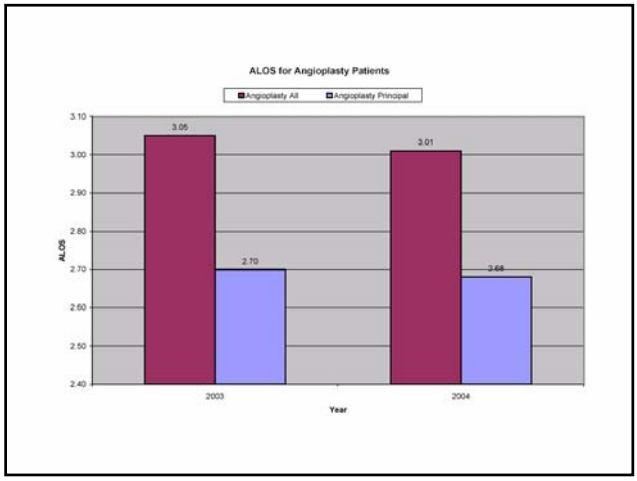

Angioplasty, All, 2003, KY and Non-KY Residents
KENTUCKY
SURROUNDING STATE
NON-SURROUNDING STATE, INCLUDING UNKNOWN CASES
1%
12%
87%

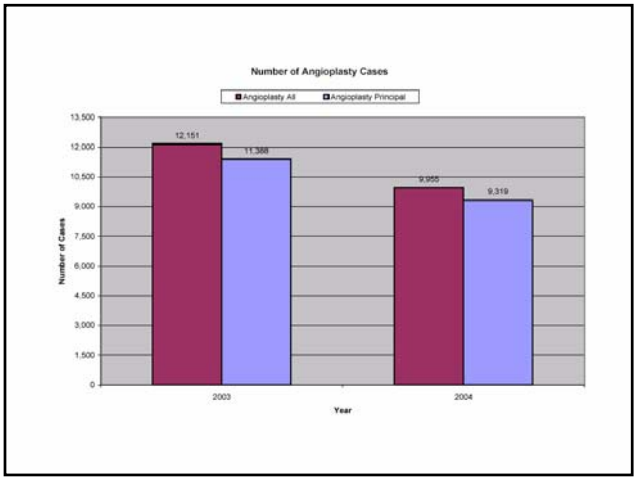

Angioplasty, Principal, 2004, KY and Non--KY residents
KENTUCKY
SURROUNDING STATE
NON-SURROUNDING STATE, INCLUDING UNKNOWN CASES
1%
13%
86%

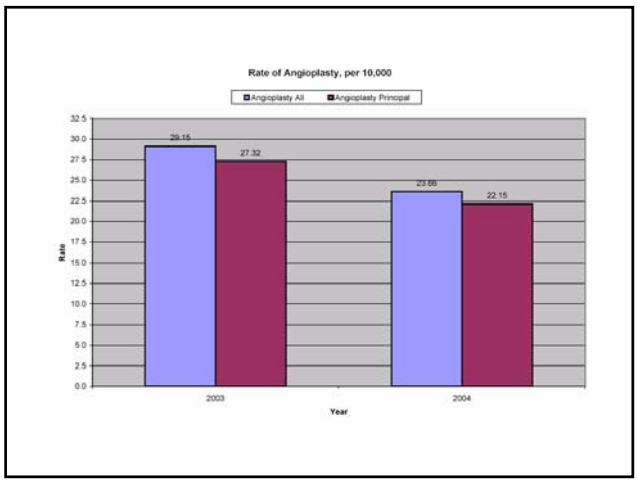

Angioplasty, All, 2004, KY and Non-KY Residents
KENTUCKY
SURROUNDING STATE
NON-SURROUNDING STATE, INCLUDING UNKNOWN CASES
1%
13%
86%

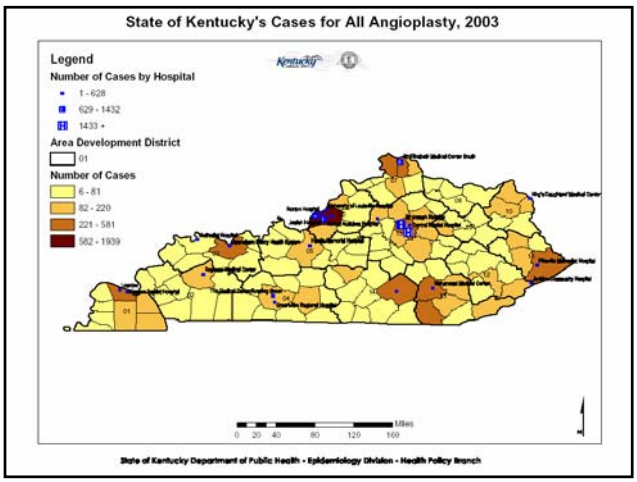

Average Age of Angioplasty Patients
Angioplasty All
Angioplasty Principal
Age
63
62.5
62
61.5
62.2
62.1
62.7
62.6
2003
2004
Year

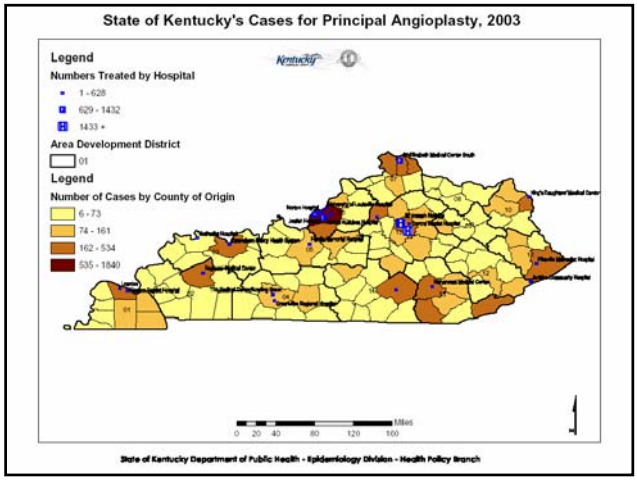

Average Charge for Angioplasty Patients
Angioplasty All
Angioplasty Principal
Average Charge
$40,000
$37,500
$35,000
$32,500
$30,000
$27,500
$25,000
$22,500
$20,000
$17,500
$15,000
$12,500
$10,000
$7,500
$5,000
$2,500
$0
$32,550
$30,028
$37,104
$34,504
2003
2004
Year

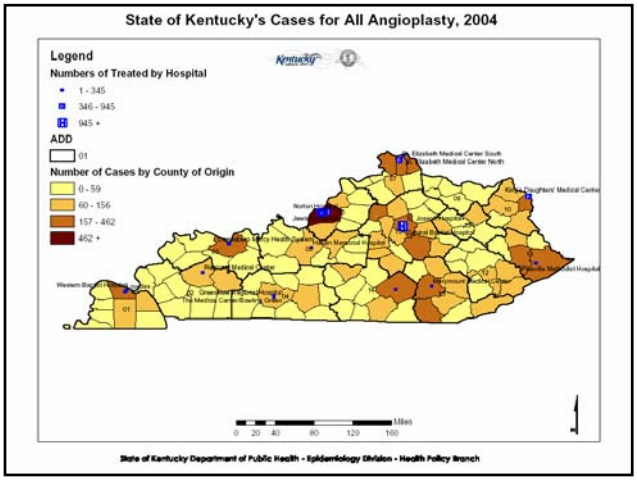

ALOS for Angioplasty Patients
Angioplasty All
Angioplasty Principal
ALOS
3.10
3.00
2.90
2.80
2.70
2.60
2.50
2.40
3.05
2.70
3.01
2.68
2003
2004
Year

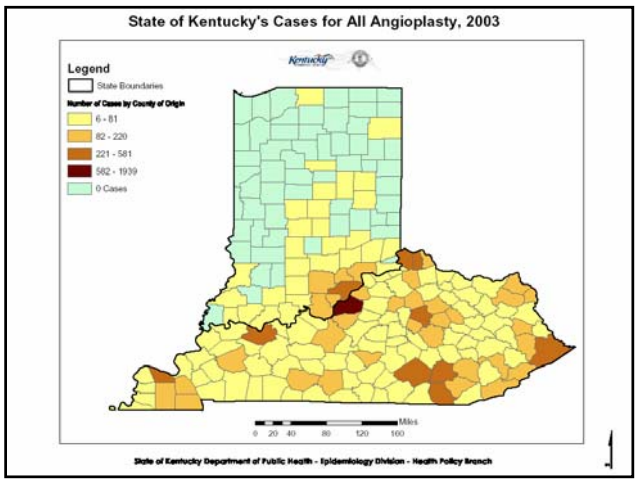

Number of Angioplasty Cases
Angioplasty All
Angioplasty Principal
Number of Cases
13,500
12,000
10,500
9,000
7,500
6,000
4,500
3,000
1,500
0
12,151
11,388
9,955
9,319
2003
2004
Year


Rate of Angioplasty, per 10,000
Angioplasty All
Angioplasty Principal
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
Rate
29.15
27.32
23.66
22.15
2003
2004
Year


State of Kentucky's Cases for All Angioplasty, 2003
Legend
Number of Cases by Hospital
1 - 628
629 - 1432
1433 +
Area Development District
01
Number of Cases
6 - 81
82 - 220
221 - 581
582 - 1939
Miles
0 20 40 80 120 160
State of Kentucky Department of Public Health - Epidemiology Division - Health Policy Branch


State of Kentucky's Cases for Principal Angioplasty, 2003
Legend
Numbers Treated by Hospital
1 - 628
629 - 1432
1433 +
Area Development District
01
Legend
Number of Cases by County of Origin
6 - 73
74 - 161
162 - 534
535 - 1840
Miles
0 20 40 80 120 160
State of Kentucky Department of Public Health - Epidemiology Division - Health Policy Branch


State of Kentucky's Cases for All Angioplasty, 2004
Legend
Numbers of Treated by Hospital
1 - 345
346 - 945
945 +
ADD
01
Number of Cases by County of Origin
0 - 59
60 - 156
157 - 462
462 +
Miles
0 20 40 80 120 160
State of Kentucky Department of Public Health - Epidemiology Division - Health Policy Branch


State of Kentucky's Cases for All Angioplasty, 2003
Legend
State Boundaries
Number of Cases by County of Origin
6 - 81
82 - 220
221 - 581
582 - 1939
0 Cases
Miles
0 20 40 80 120 160
State of Kentucky Department of Public Health - Epidemiology Division - Health Policy Branch

Appendix B: Data Users' Agreement

Agreement for Use of Kentucky Health Claims Data

This agreement between the Kentucky Department for Public Health, Health Policy Development Branch, and the individual whose signature appears below, applies to all health claims data collected in compliance with KRS 216.2920-216.2947, including but not limited to subsets of patient level records in full or in part , and any and all summaries or aggregations of data which may be derived from original data or any subset thereof.

Personal identifiers: Patient level health claims data have been purged of name, address, social security number, and other direct personal identifiers to prevent individual patient identification. Nevertheless, the undersigned agrees that no attempt will be made to identify individual patients through any means or methods without expressed written permission of the Kentucky Department for Public Health. Furthermore, the undersigned agrees that information derived or summarized from patient-level data which could result in the identification of any specific individual will not be released or made public.

Establishment identifiers: Identifiers for hospitals, clinics, physicians, and other health care providers have been included on patient level records in compliance with the aforementioned statute for the purpose of making cost, quality, and outcome comparisons among providers. Such purpose does *not* include the use of information concerning individual providers for commercial or competitive purposes involving those providers, or to determine the rights, benefits, or privileges of such providers. Providers shall not be identified directly or by inference in disseminated material. Under this agreement, users of data shall not contact providers for the purpose of verifying received data or summaries derived therefrom.

The undersigned gives the following assurances with respect to data obtained under the terms and conditions of this agreement:

- I will not attempt to link or permit others to attempt to link the hospital stay records of persons in this data set with personally identifiable records from any other source without prior written approval from the Kentucky Department for Public Health;

- I will not attempt to use or permit others to use the data sets to learn the identity of any person included in any set;

- I will not release or permit others to release any information based on these data that identifies individuals, either directly or indirectly;

- I will not attempt to use or permit others to use the data to learn the identity of any provider that may be represented in the data;

- I will not contact or permit others to contact providers or persons represented in the data;

- I will not use or permit others to use data concerning individual health care providers for commercial or competitive purposes involving those providers, to determine the rights, benefits, or privileges of individual providers, or to report, through any medium, data that could identify individual providers, either directly or by inference;

- I will require others in the organization specified below who use the data to sign this agreement and will keep those signed agreements and make them available upon request;

- I will not release or permit organizations or individuals outside my direct control or the control of the organization specified below to release the data sets or any part of them to any person who is not a member of the organization specified below;

- I will make no statement nor permit others to make statements implying or suggesting that interpretations drawn are those of health care providers that may be identified in the data, either individually or as a group, or the Kentucky Department of Public Health; and

- I will acknowledge the "Kentucky Department for Public Health, Health Policy Development Branch" as data source in any and all publications based on these data.

Violation of this agreement will result in action by the Kentucky Department for Public Health. Violations deemed unlawful may be referred to the Commonwealth Attorney, the police, the Federal Bureau of Investigation, or other appropriate legal authority for investigation and/or prosecution.

Note: The person signing this data use agreement must be the person to whom the data product is shipped.

Signed: _____ Date: _____

Print name: _____

Organization and Title: _____

Address: _____

City: _____ State: _____ ZIP: _____

Telephone: _____