

Transparency for Quality Improvement Efforts in the Commonwealth of Kentucky


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Kentucky Legislation & Policy

- 2005 law (HB 278) → Secretary's Advisory Committee on Transparency
- 2006 law (HB 380) → Transparency law required release of cost and quality data
- Health Care Information Center Website:
 - Launched March 2007
 - Data on inpatient procedure quality & avoidable hospitalizations
 - Consumers can compare KY hospitals on quality
 - <http://chfs.ky.gov/ohp/healthdata/>

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The screenshot shows the website interface for the Kentucky Health Care Information Center. It includes a navigation menu, a search bar, and a main content area with a welcome message and a photo of a healthcare professional.

How did Ky staff use the AHRQ Tools?

- AHRQ Diabetes Guide and Workbook helped CHFS front line staff to:
 - Look at chronic diseases & focus on diabetes
 - Assemble most recent data in formats of the Diabetes Guide
 - Be productive in the analysis phase
 - Interpret data with better understanding

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Data Sources

The Kentucky CHFS collects:

- **UB-92 inpatient records:**
 - 600,000 per year
 - All Kentucky hospitals
- **Outpatient surgery records:**
 - Hospital-based
 - Some Ambulatory Surgery Centers
- **Public Health Data** – BRFS, Vital Statistics, etc.
- **Medicaid & State employee claims** De-identified

- Procedures & Diagnoses
- Volume
- Length of stay
- Charges
- HCUP Partner

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Quality Measures

- Non-proprietary consensus-based sources:
 - AHRQ: Agency for Healthcare Research and Quality
 - CMS: Centers for Medicare and Medicaid Services
 - JCAHO: Joint Commission for Accreditation of Healthcare Organization
- Measures:
 - Inpatient Quality Indicators
 - Patient Safety Indicators
 - Prevention Quality Indicators
 - Other (e.g., CMS Hospital Compare)

} AHRQ QIs (Quality Indicators)

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Focus on Diabetes

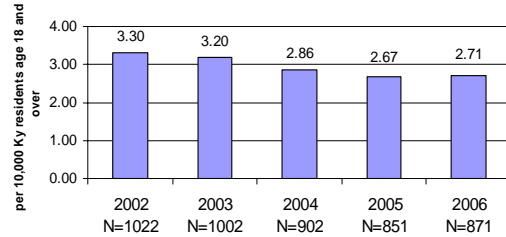
- Kentucky: among worst health outcomes in US:
 - 2nd highest death and disability rates
 - 6th highest obesity prevalence
- Diabetes:
 - 7th highest adult diabetes prevalence
 - Some Eastern counties nearly double national diabetes rates

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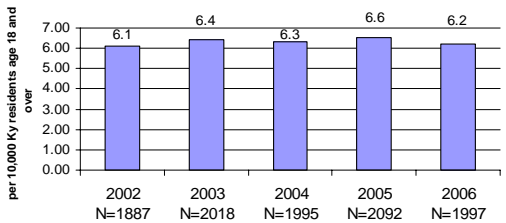
Estimated Using Ideas from the Diabetes Guide + HCUP Data

Hospital Admission Rates for Uncontrolled Diabetes, 2006



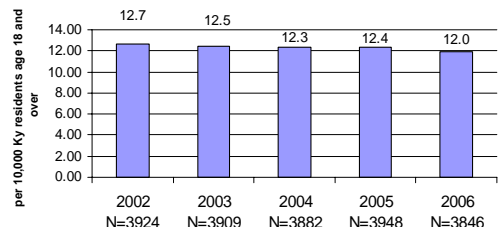
Estimated Using Ideas from the Diabetes Guide + HCUP Data

Hospital Admission Rates for Short-term Complications of Diabetes, 2006



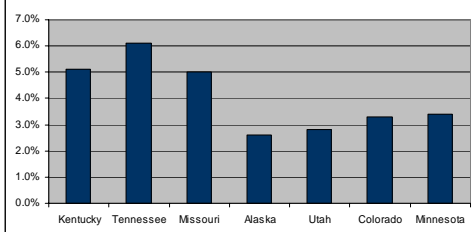
Estimated Using Ideas from the Diabetes Guide + HCUP Data

Hospital Admission Rates for Long-term Complications of Diabetes, 2006



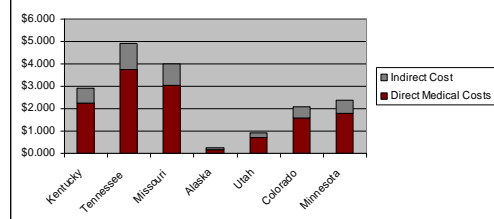
Obtained from Diabetes Guide: KY Compared to Worst/Best-in-Class States

Percent of Population with Diabetes



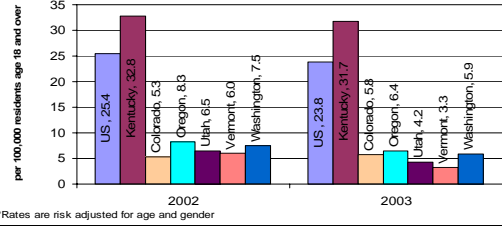
Obtained from the Diabetes Guide

Estimates of the Direct, Indirect and Total Cost (billions) Burden of Diabetes



New Display Using Diabetes Guide Data

Comparison of Hospital Admission Rates for Uncontrolled Diabetes for US, KY, and Best Performing States*

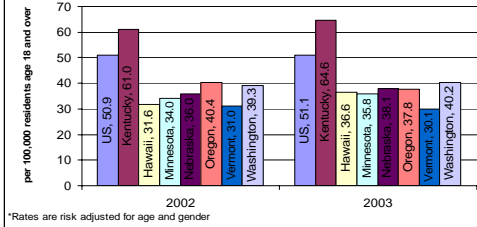


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New Display Using Diabetes Guide Data

Comparison of Hospital Admission Rates for Short-term Complication of Diabetes for US, KY, and Best Performing States*

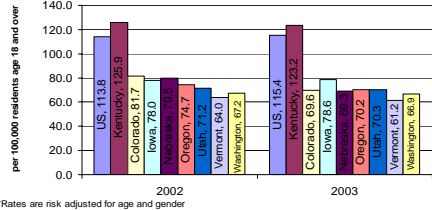


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New Display Using Diabetes Guide Data

Comparison of Hospital Admission Rates for Long-term Complication of Diabetes for US, KY, and Best Performing States*

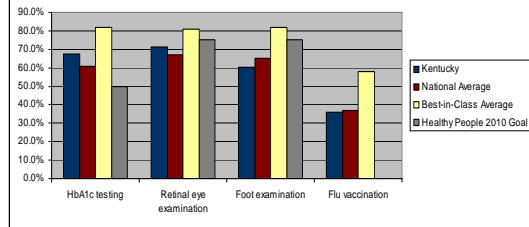


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New Display Using Diabetes Guide Data

Percent of Adults (in 2001) who received:

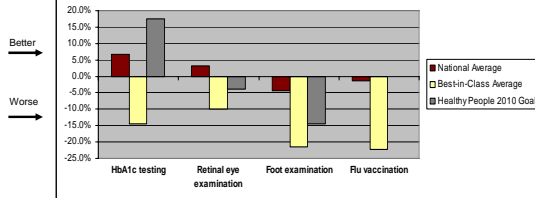


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New Display/Estimates Using Diabetes Guide Data

Percent Differences between Kentucky and Other Averages



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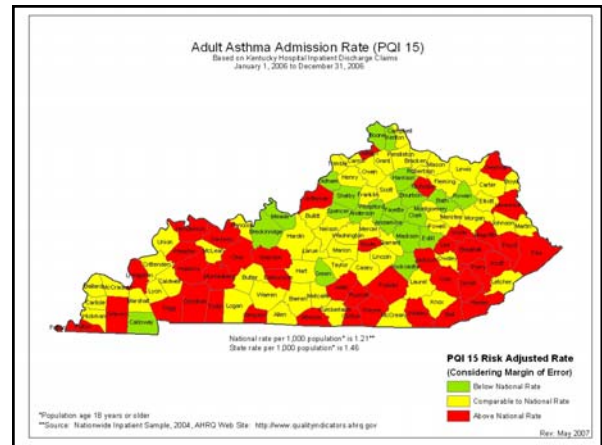
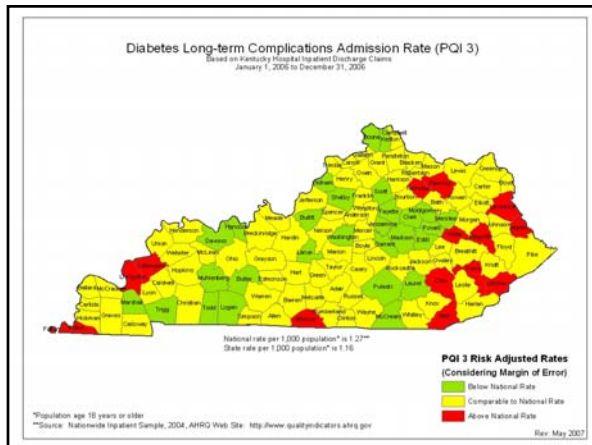
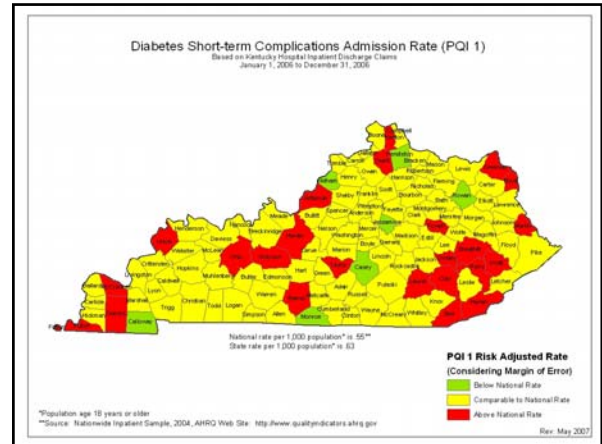
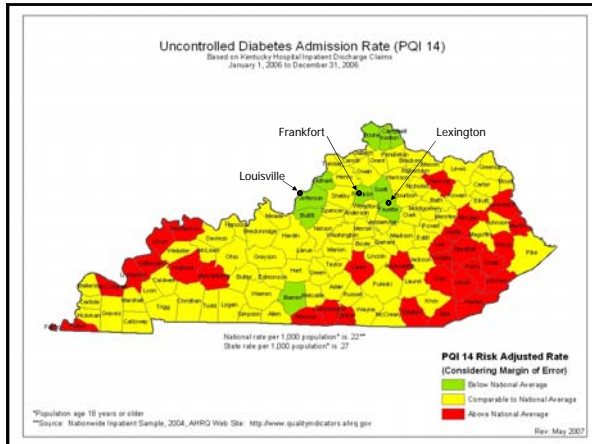


County-Level Quality Improvement Data

GIS Mapping:
Using HCUP Data
&
AHRQ Mapping Software

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Conclusion

- Kentucky leaders committed to transparency efforts
- Transparency (Data & Measurement) is first step to quality improvement
- Diabetes Guide critical tool for how best to present analyze our data
- We need now to take more steps to facilitate quality improvement in KY
- The Guide gives us credibility in our QI efforts

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