

Transparency for Quality Improvement Efforts in the Commonwealth of Kentucky

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Improvement Workshop
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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/>

Kentucky: Cabinet for Health and Family Services - Health Care Information Center - Microsoft Internet Explorer

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UNBRIDLED SPIRIT

Health Care Information Center Home

Message from the Governor

Access the Reports
[To learn more about inpatient quality indicators and to access the reports, please click here.](#)

Message from the Governor

Health Care Information Center

Welcome to the Commonwealth of Kentucky's Health Care Information Center. Health care is very individualized to patient needs and patient care. As consumers, it is important that we all have access to reliable information about health care costs and quality to assist in making the best, most informed decisions.

The center provides both performance and outcome information on hospitals in Kentucky, as well as information about quality of care. Additionally, we will provide measurements of how well preventive care efforts are working to reduce the number of inpatient stays in Kentucky hospitals.

[To learn more about inpatient quality indicators, please click here.](#)



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

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** – BRFSS, Vital Statistics, etc.
- **Medicaid & State employee claims** De-identified
 -

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

Quality Measures

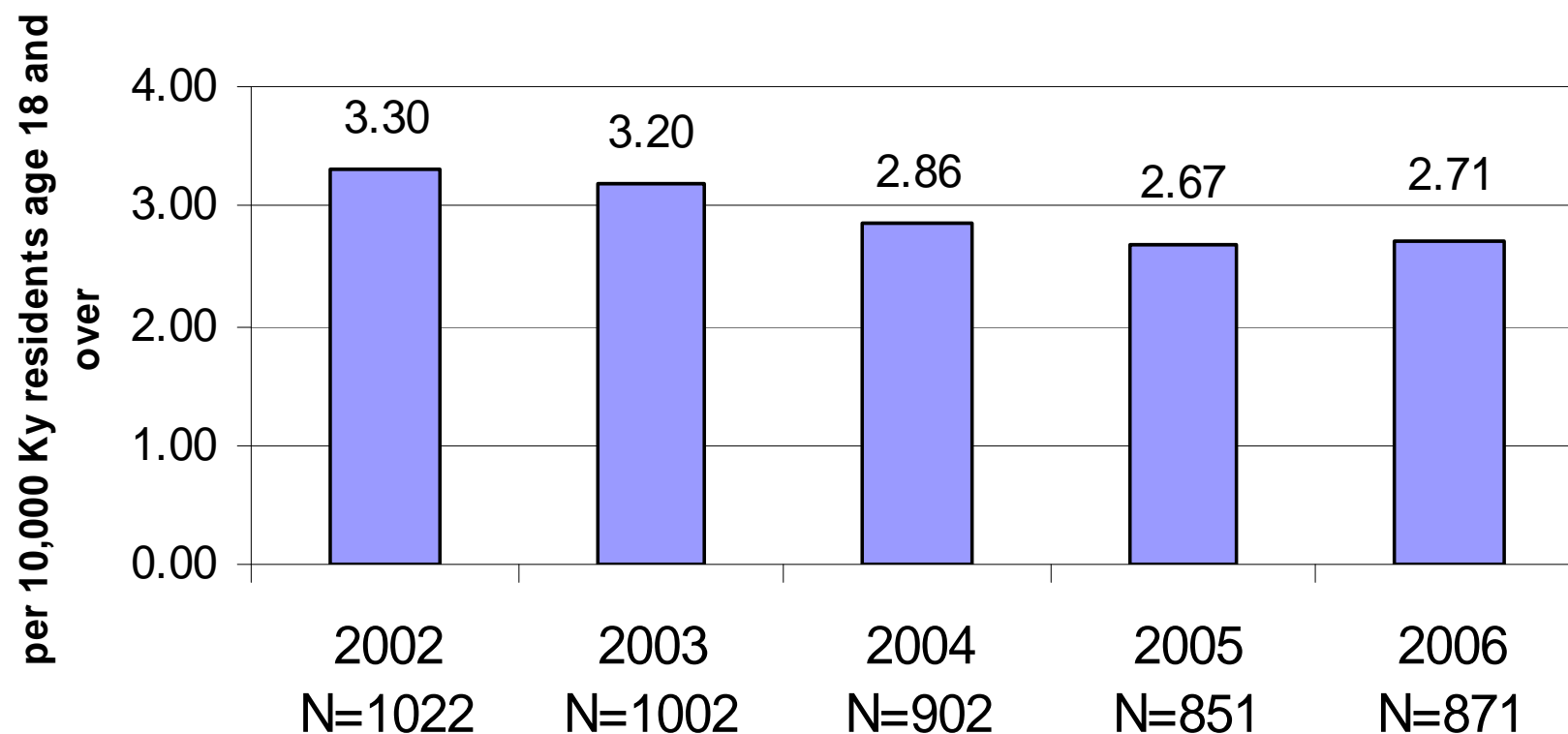
- Non-proprietary consensus-based sources:
 - AHRQ: Agency for Healthcare Research and Quality
 - CMS: Centers for Medicare and Medicaid Services
 - JCAHO: Joint Commission for Accreditation of Healthcare Organization
 - Measures:
 - Inpatient Quality Indicators
 - Patient Safety Indicators
 - Prevention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

Focus on Diabetes

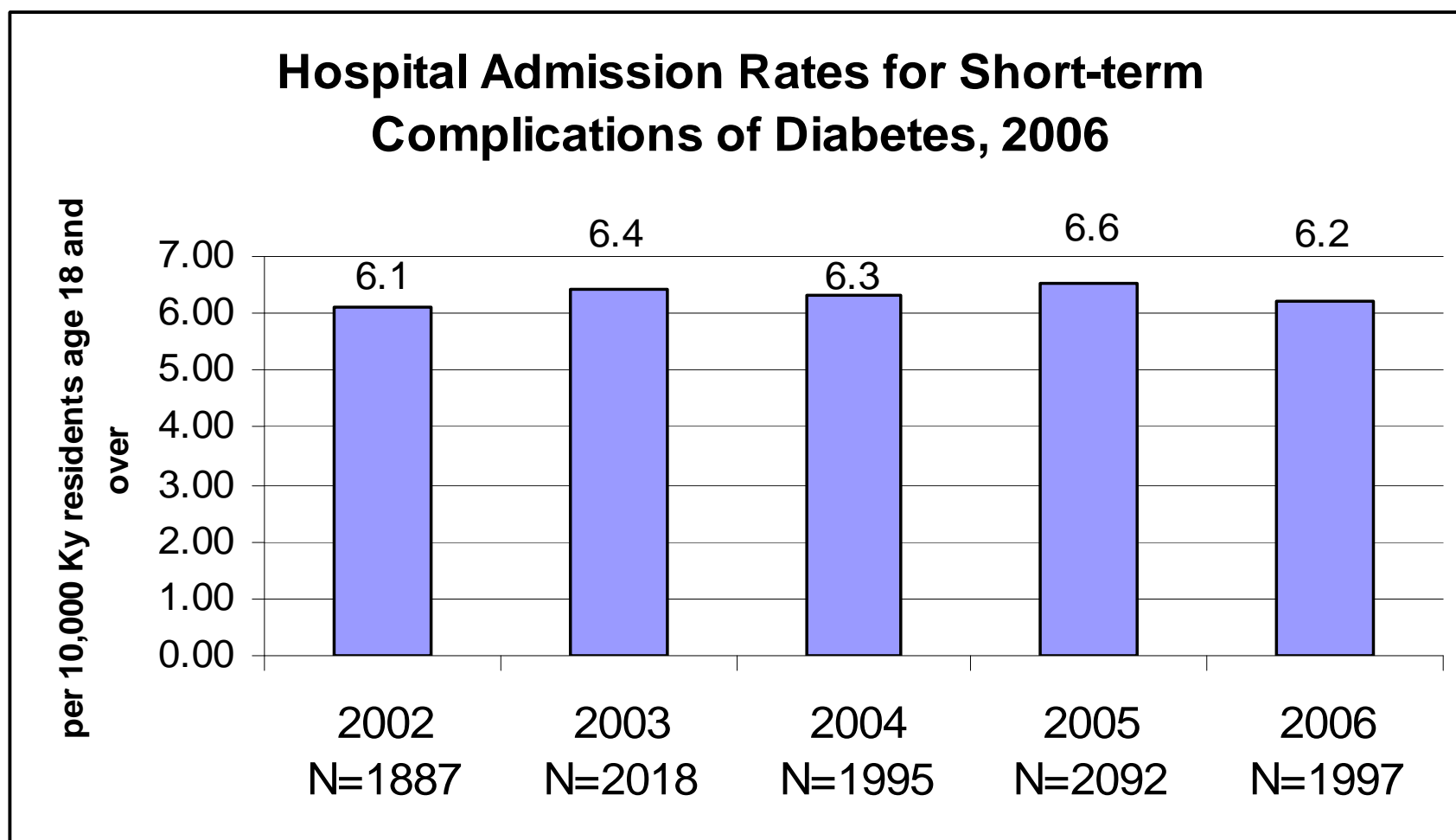
- Kentucky: among worst health outcomes in US:
 - 2nd highest death and disability rates
 - 6th highest obesity prevalence
- Diabetes:
 - 7th highest adult diabetes prevalence
 - Some Eastern counties nearly double national diabetes rates

Estimated Using Ideas from the Diabetes Guide + HCUP Data

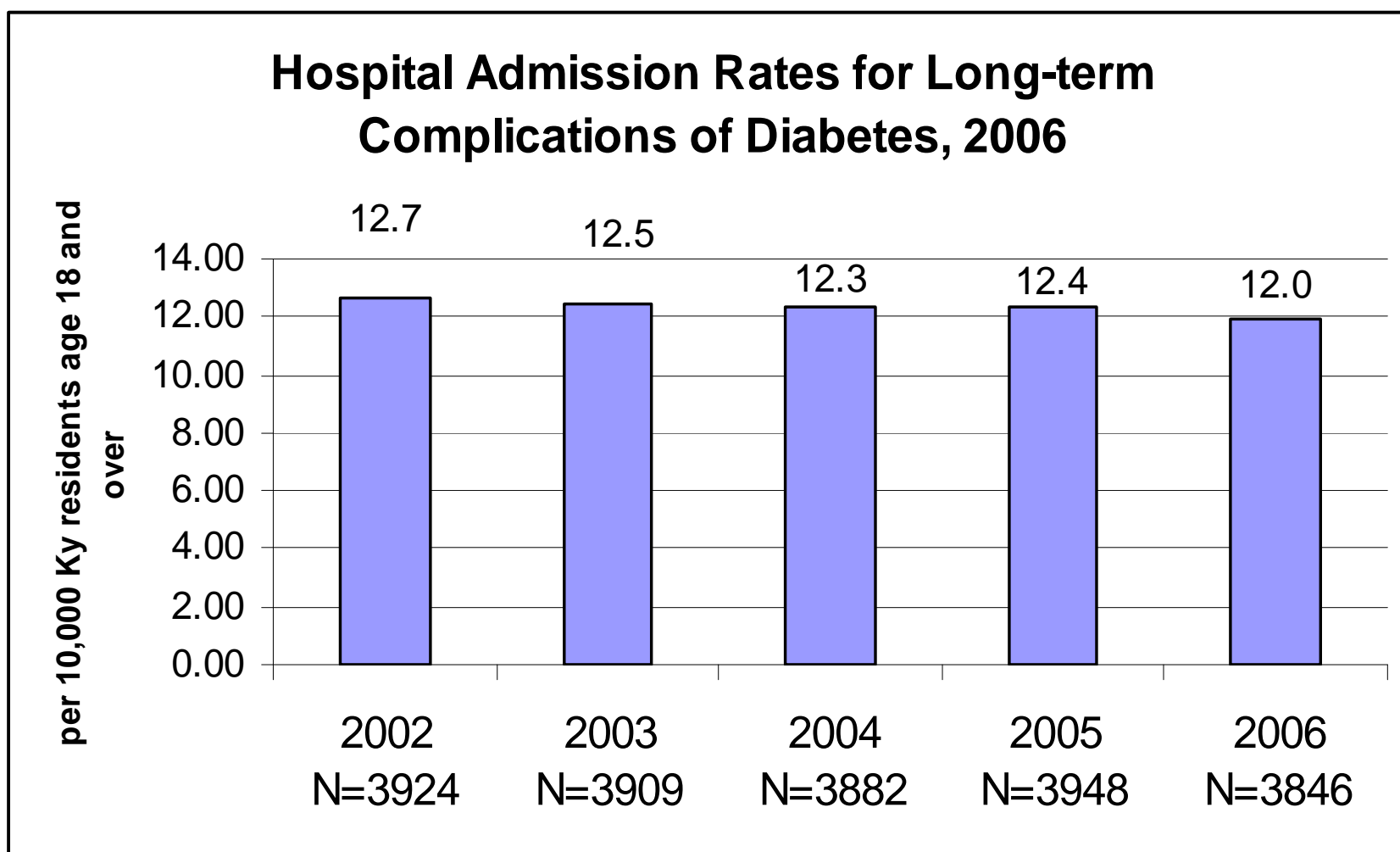
Hospital Admission Rates for Uncontrolled Diabetes, 2006



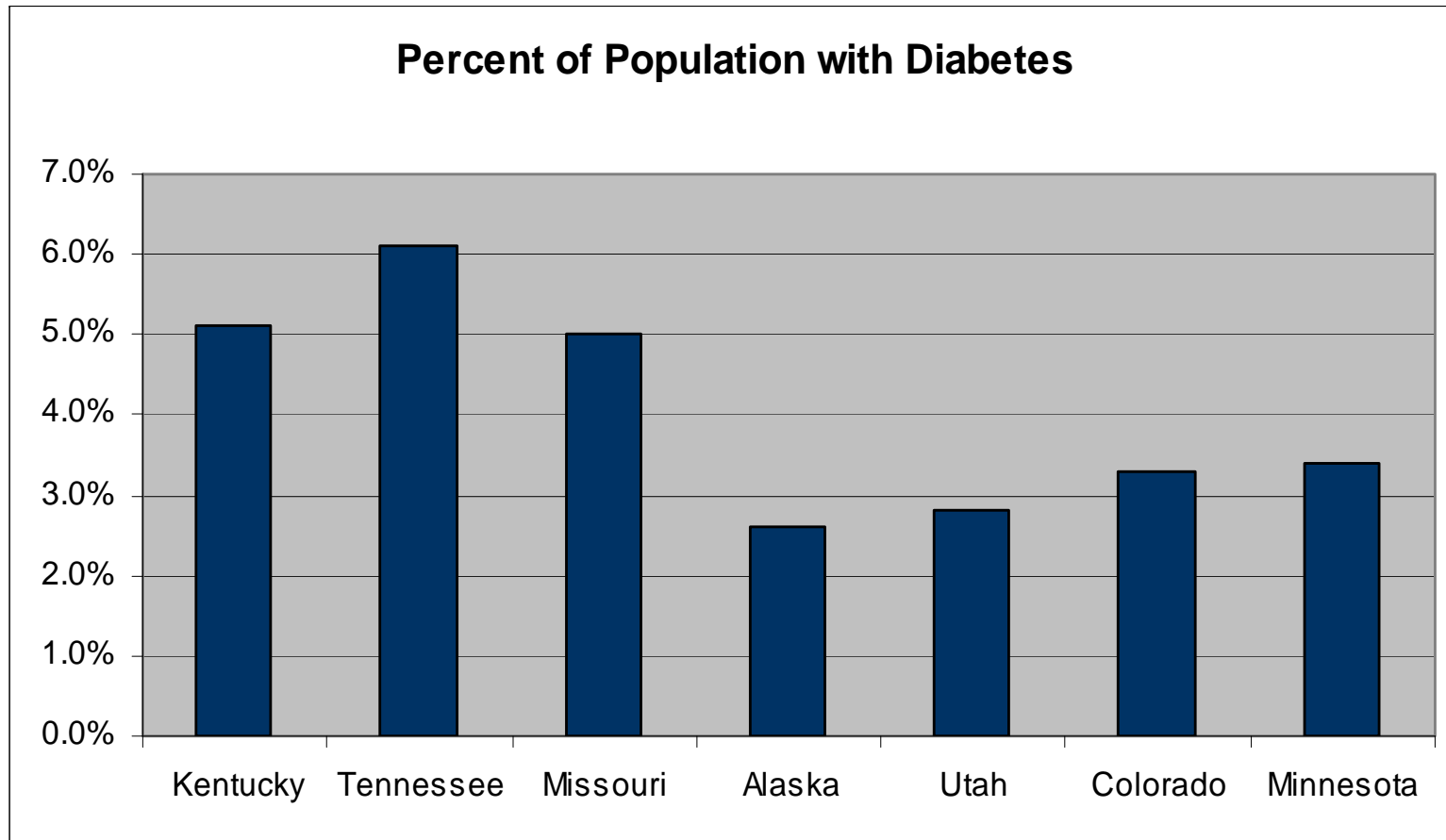
Estimated Using Ideas from the Diabetes Guide + HCUP Data



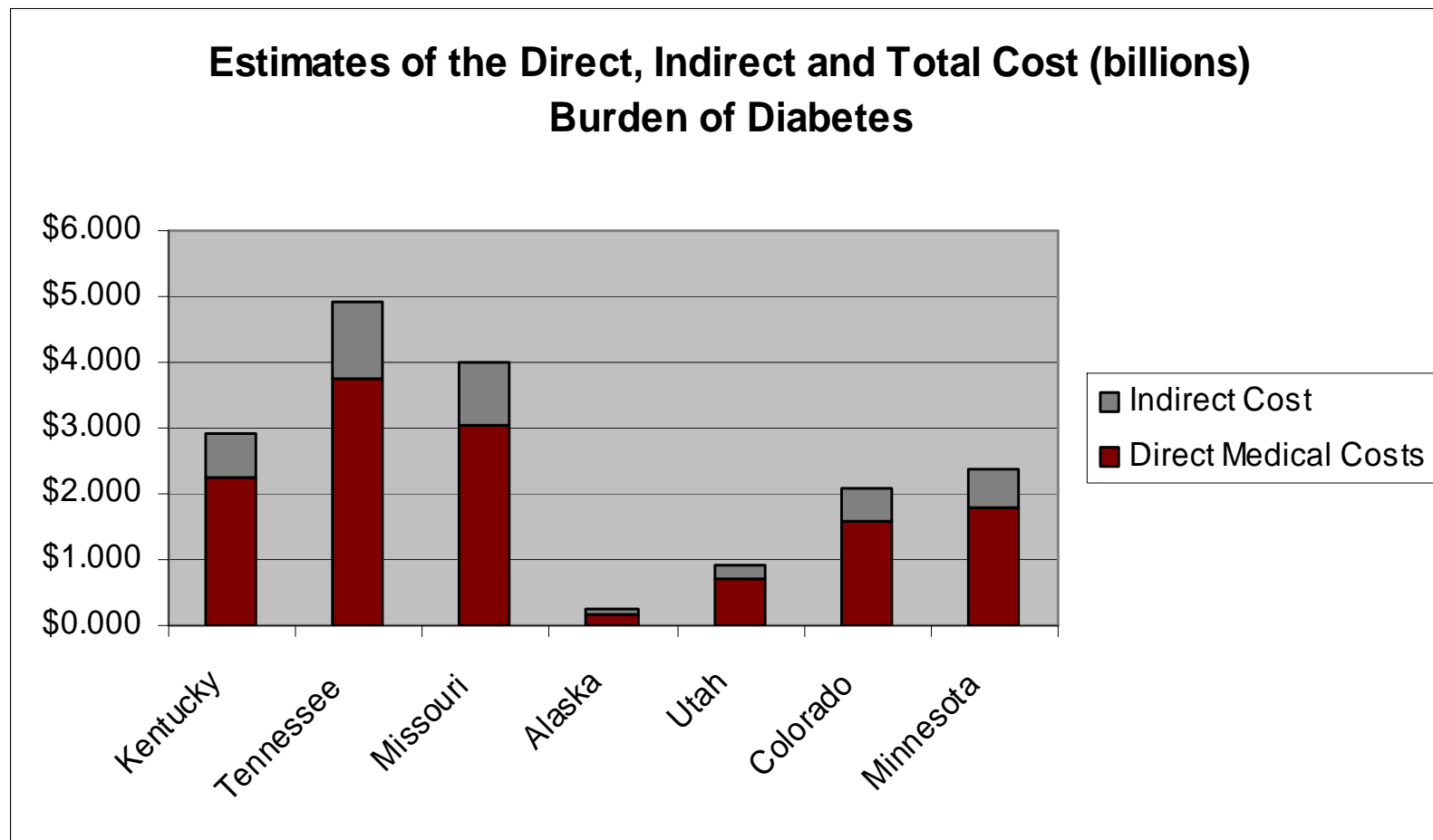
Estimated Using Ideas from the Diabetes Guide + HCUP Data



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

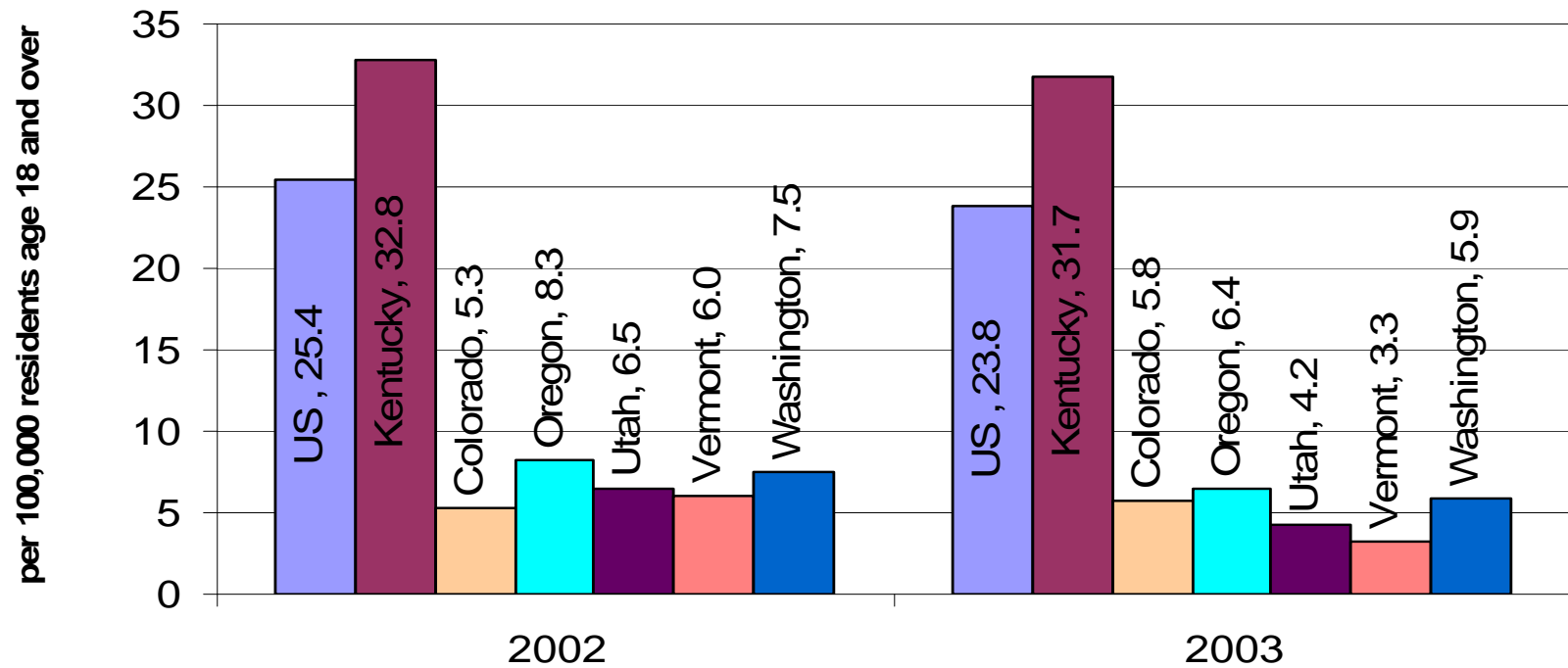


Obtained from the Diabetes Guide



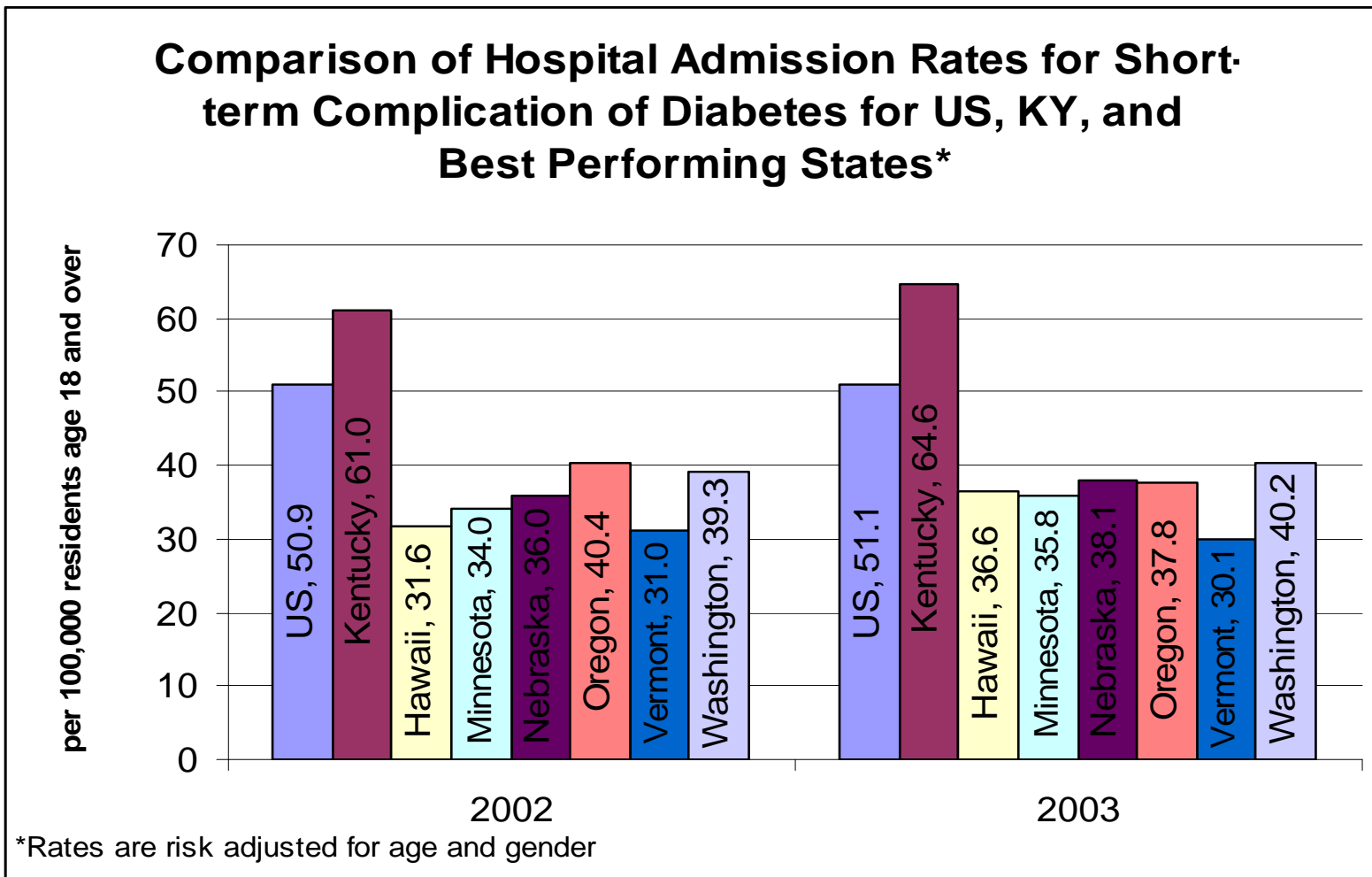
New Display Using Diabetes Guide Data

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

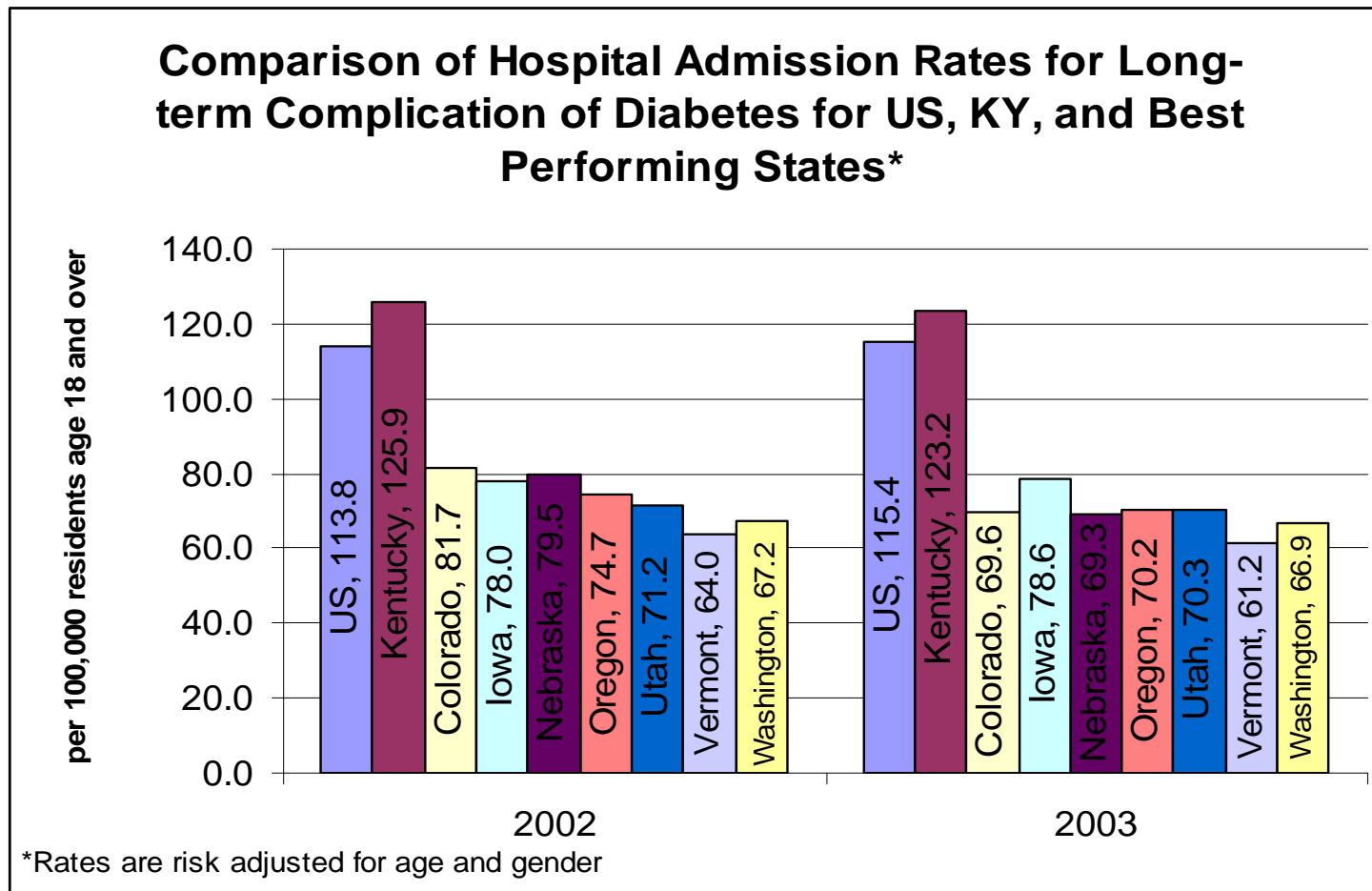


*Rates are risk adjusted for age and gender

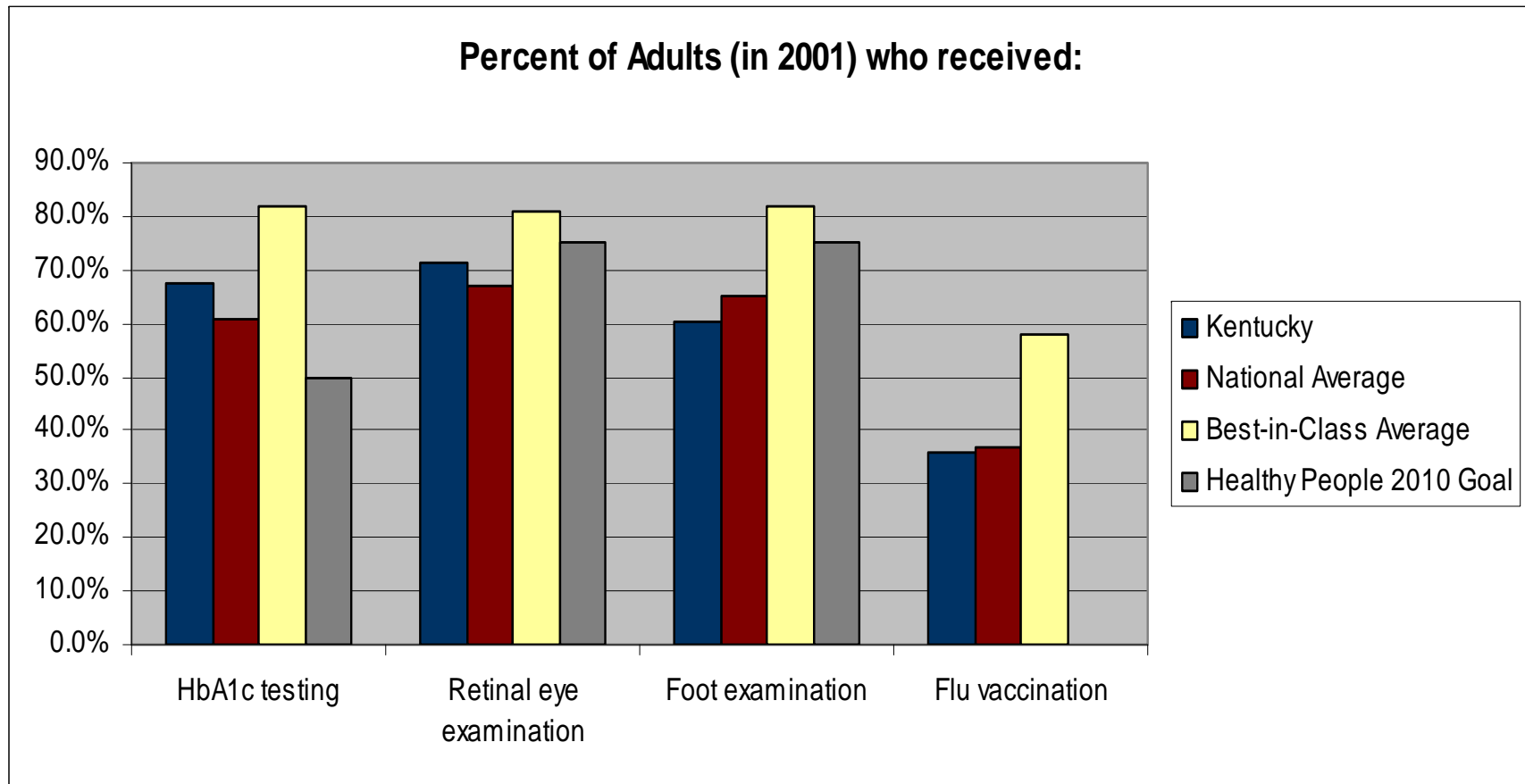
New Display Using Diabetes Guide Data



New Display Using Diabetes Guide Data



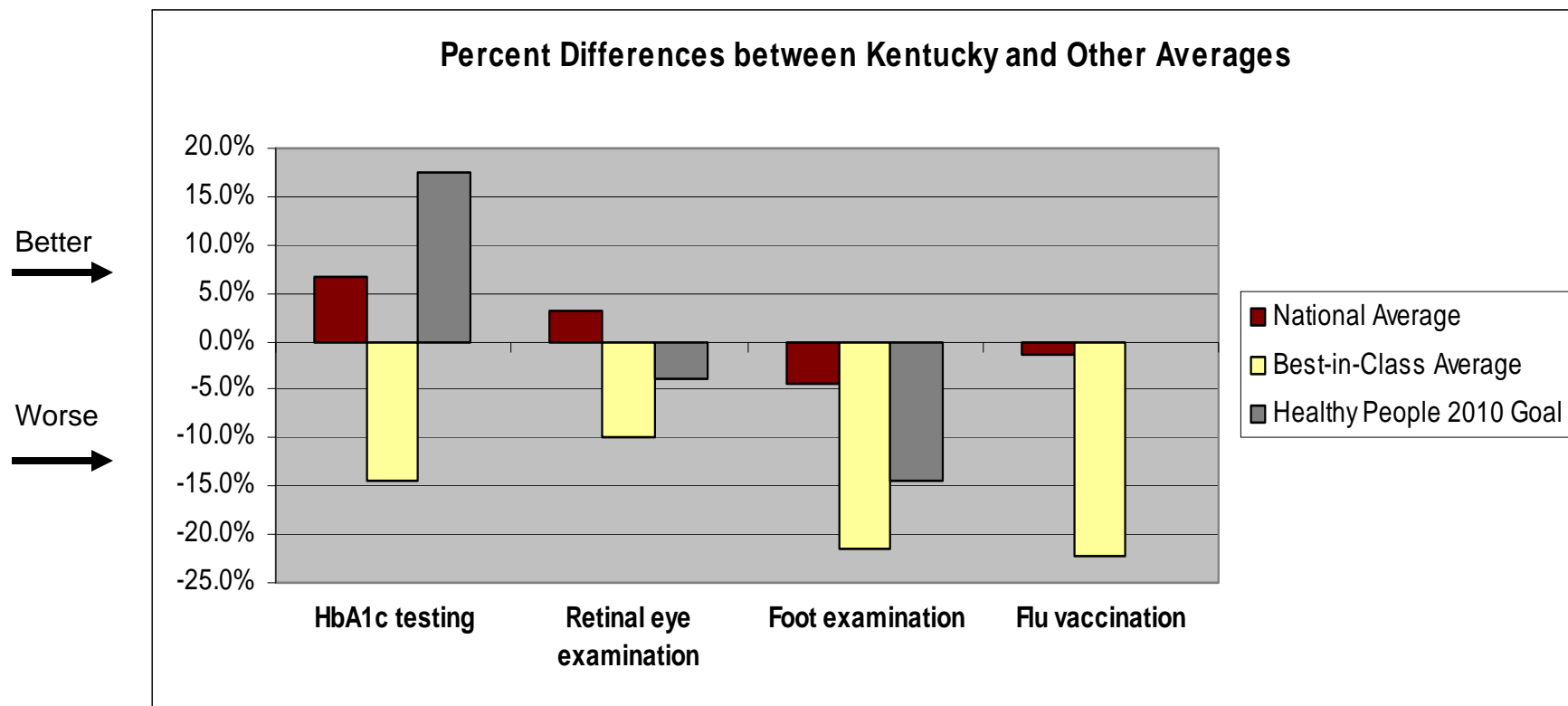
New Display Using Diabetes Guide Data



Source: BRFSS & Diabetes Guide

Target areas

New Display/Estimates Using Diabetes Guide Data

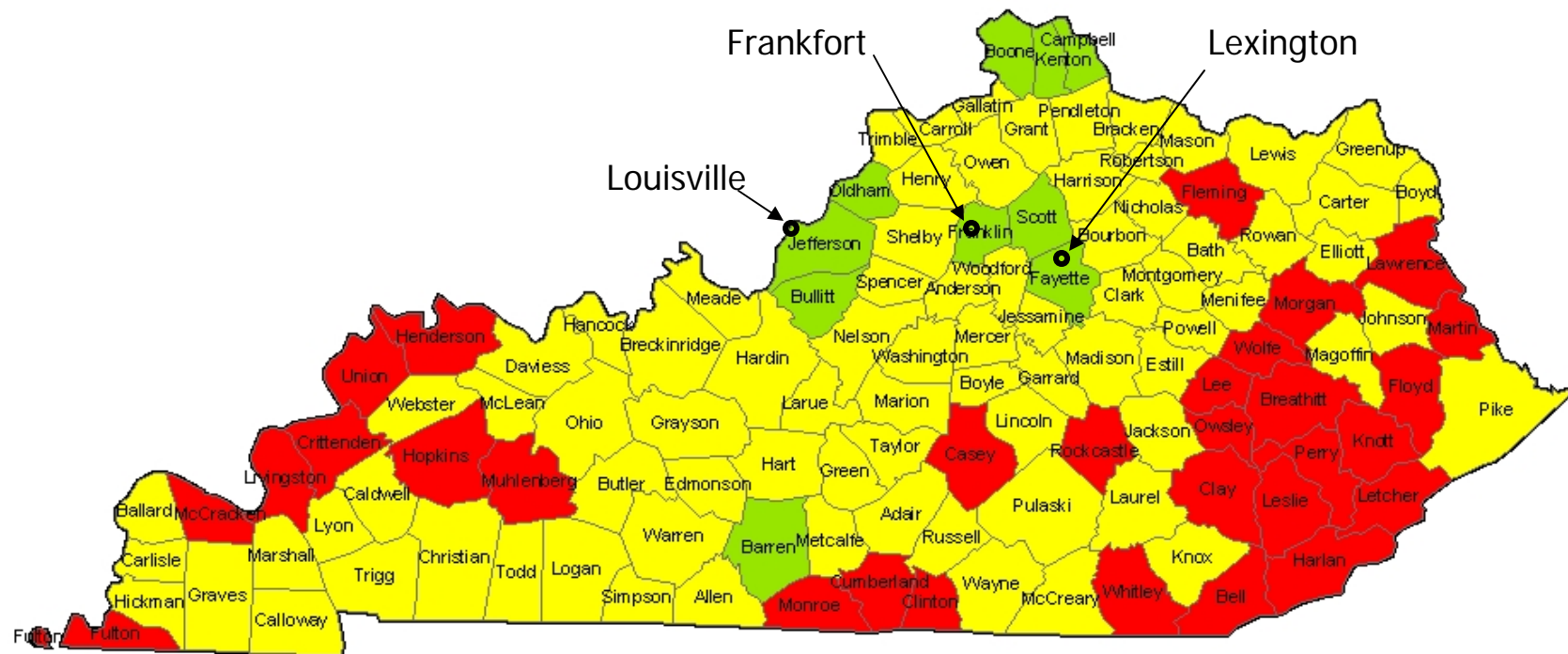


County-Level Quality Improvement Data

GIS Mapping: Using HCUP Data & AHRQ Mapping Software




Uncontrolled Diabetes Admission Rate (PQI 14)

Based on Kentucky Hospital Inpatient Discharge Claims
January 1, 2006 to December 31, 2006



National rate per 1,000 population* is .22**
State rate per 1,000 population* is .27

PQI 14 Risk Adjusted Rate
(Considering Margin of Error)

-  Below National Average
 Comparable to National Average
 Above National Average

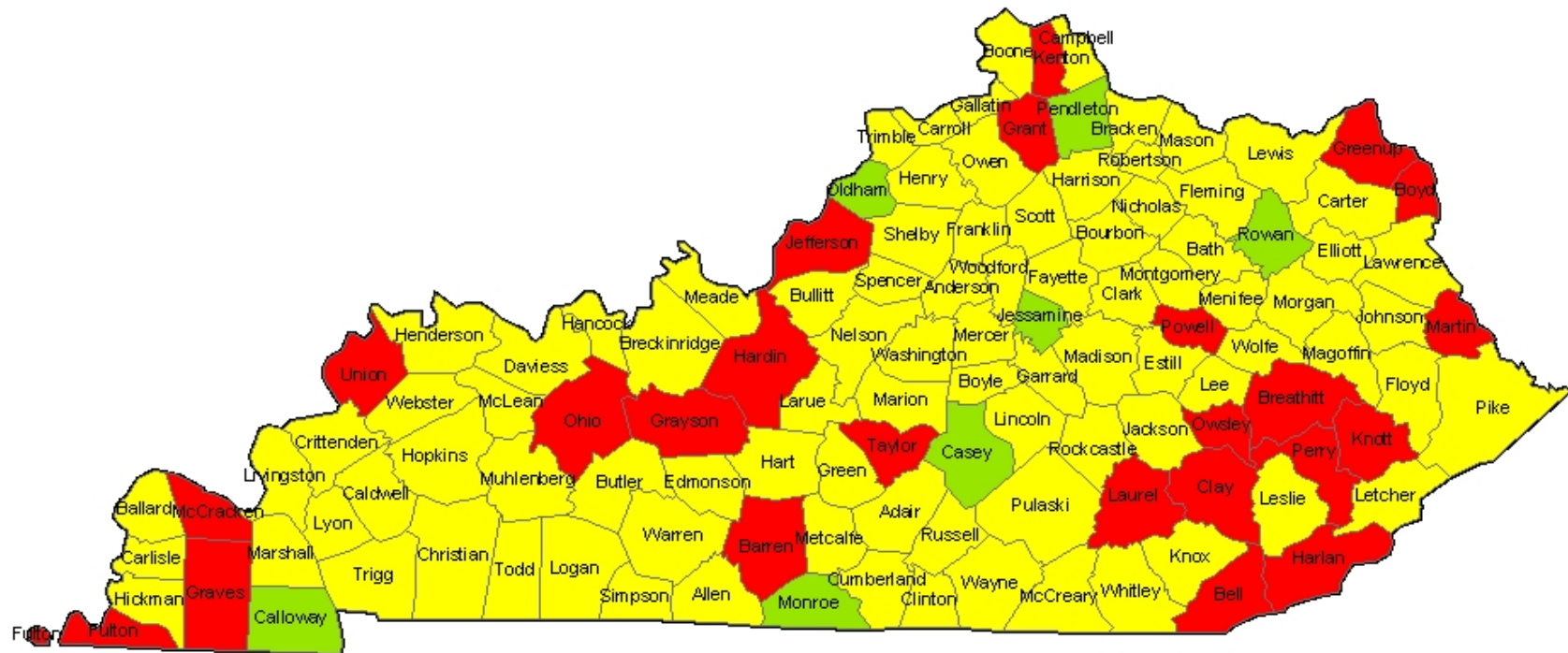
*Population age 18 years or older

**Source: Nationwide Inpatient Sample, 2004, AHRQ Web Site: <http://www.qualityindicators.ahrq.gov>

Rev: May 2007

Diabetes Short-term Complications Admission Rate (PQI 1)

Based on Kentucky Hospital Inpatient Discharge Claims
January 1, 2006 to December 31, 2006



National rate per 1,000 population* is .55**
State rate per 1,000 population* is .63

PQI 1 Risk Adjusted Rate (Considering Margin of Error)

- Below National Rate
- Comparable to National Rate
- Above National Rate

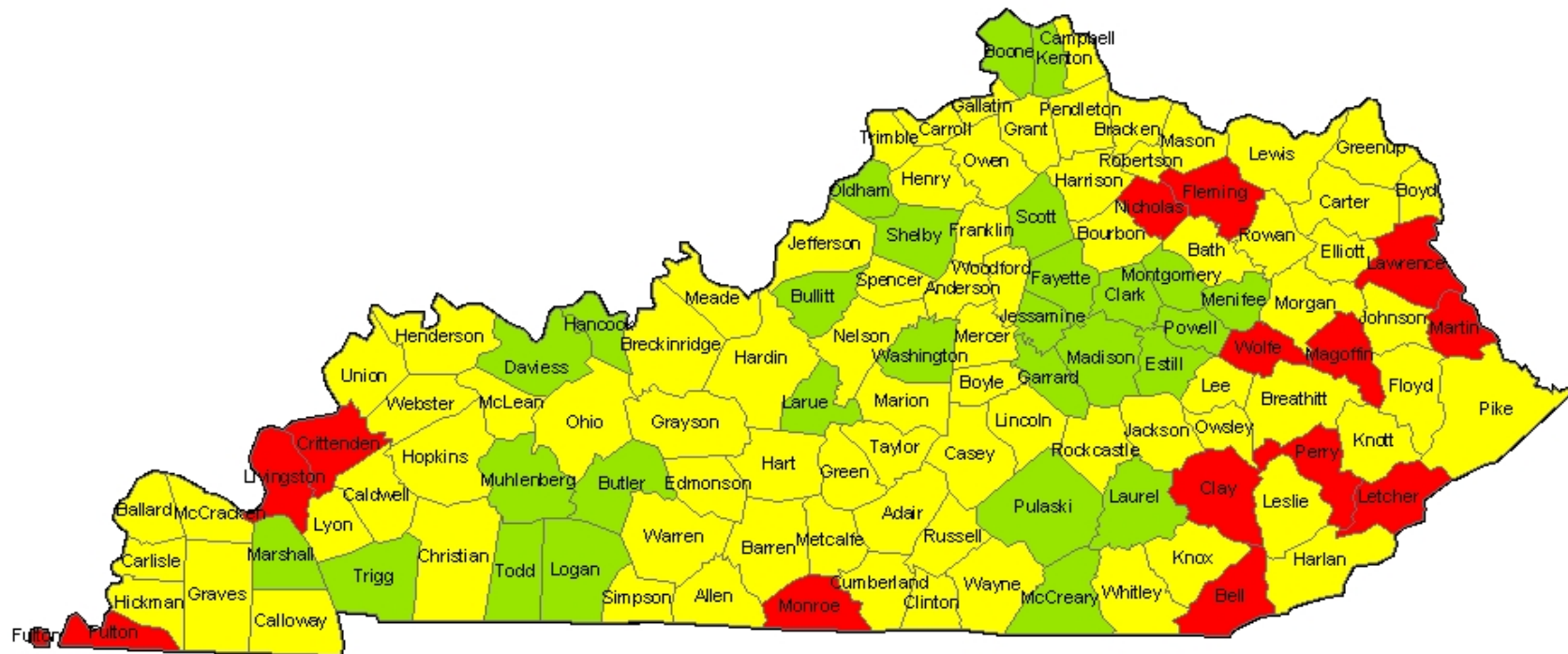
*Population age 18 years or older

**Source: Nationwide Inpatient Sample, 2004, AHRQ Web Site: <http://www.qualityindicators.ahrq.gov>

Rev: May 2007

Diabetes Long-term Complications Admission Rate (PQI 3)

Based on Kentucky Hospital Inpatient Discharge Claims
January 1, 2006 to December 31, 2006



National rate per 1,000 population* is 1.27**
State rate per 1,000 population* is 1.16

PQI 3 Risk Adjusted Rates (Considering Margin of Error)

- Below National Rate
- Comparable to National Rate
- Above National Rate

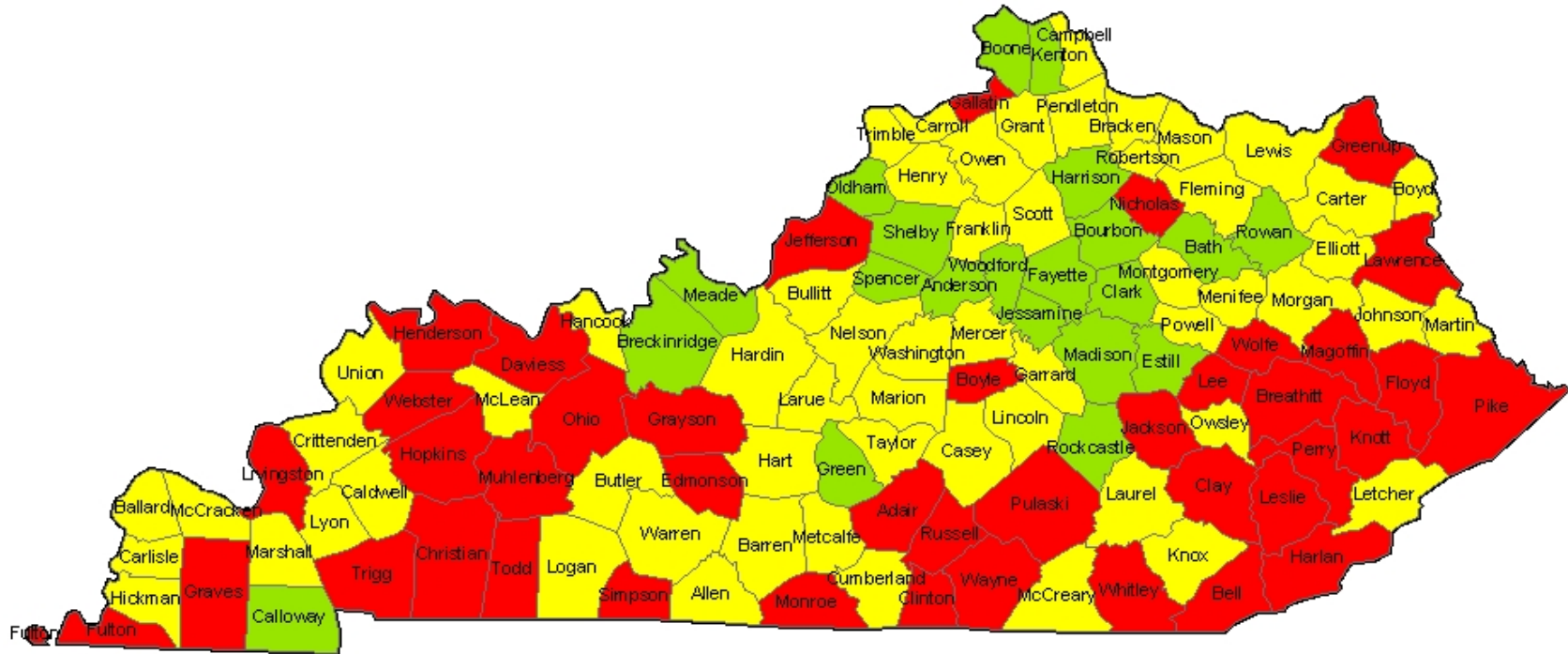
*Population age 18 years or older

**Source: Nationwide Inpatient Sample, 2004, AHRQ Web Site: <http://www.qualityindicators.ahrq.gov>

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


Adult Asthma Admission Rate (PQI 15)

Based on Kentucky Hospital Inpatient Discharge Claims
January 1, 2006 to December 31, 2006



National rate per 1,000 population* is 1.21**
State rate per 1,000 population* is 1.46

PQI 15 Risk Adjusted Rate
(Considering Margin of Error)

-  Below National Rate
 Comparable to National Rate
 Above National Rate

*Population age 18 years or older

**Source: Nationwide Inpatient Sample, 2004, AHRQ Web Site: <http://www.qualityindicators.ahrq.gov>

Rev: May 2007

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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