

# Transparency for Quality Improvement Efforts in the Commonwealth of Kentucky

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Improvement Workshop  
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**Kentucky**  
UNBRIDLED SPIRIT™



# 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



- [About CHFS](#) | [Contact Us](#) | [Site Review](#) | [Forms and Documents](#) | [Información en Español](#)

- [Home](#) > [Office of Health Policy](#) > [Health Care Information Center](#) > **Health Care Information Center**



## Health Care Information Center

Health Care Information Center Home

Message from the Governor

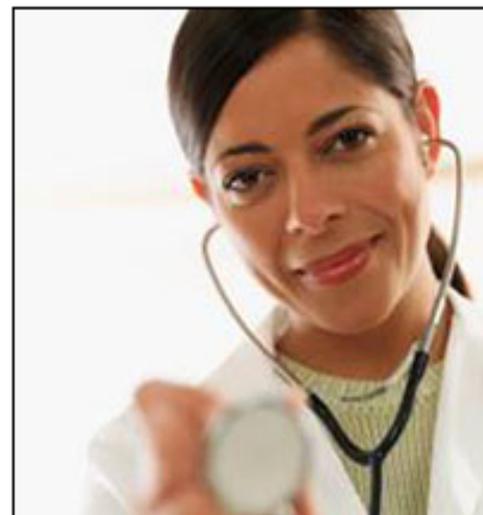
### Access the Reports

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

Message from the Governor

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.



# 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

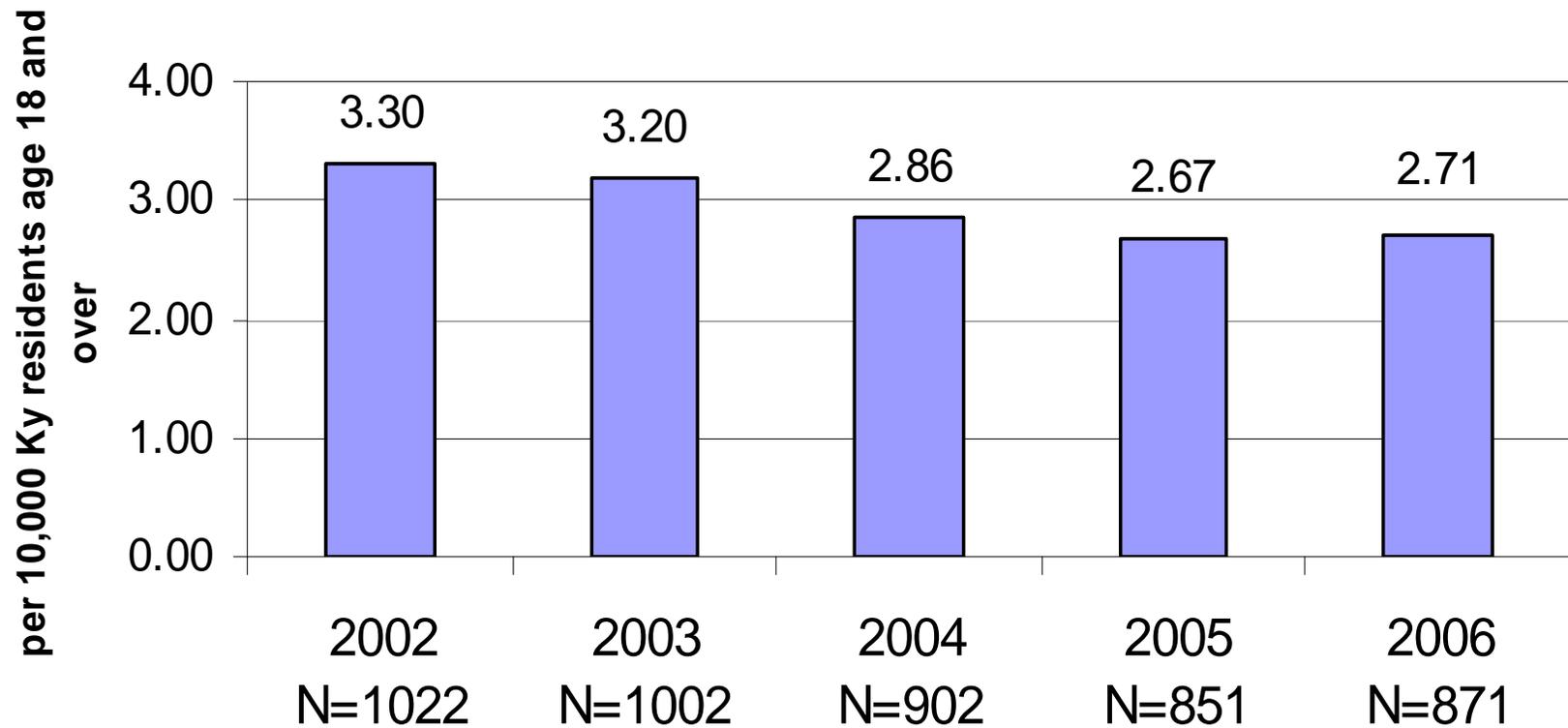
- Non-proprietary consensus-based sources:
    - AHRQ: Agency for Healthcare Research and Quality
    - CMS: Centers for Medicare and Medicaid Services
    - JCAHO: Joint Commission for Accreditation of Healthcare Organization
  - Measures:
    - Inpatient Quality Indicators
    - Patient Safety Indicators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

# Focus on Diabetes

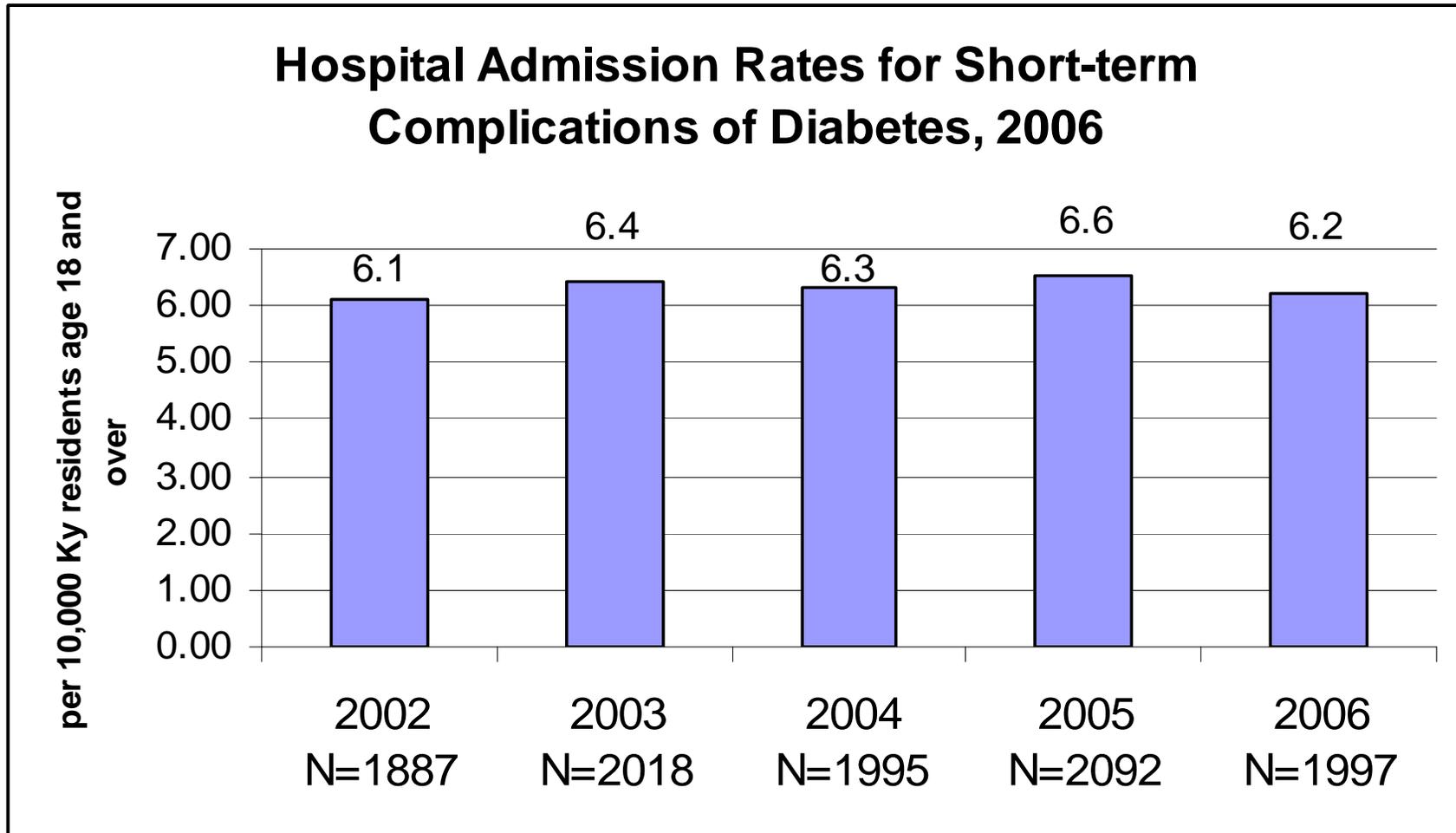
- Kentucky: among worst health outcomes in US:
  - 2<sup>nd</sup> highest death and disability rates
  - 6<sup>th</sup> highest obesity prevalence
- Diabetes:
  - 7<sup>th</sup> highest adult diabetes prevalence
  - Some Eastern counties nearly double national diabetes rates

# Estimated Using Ideas from the Diabetes Guide + HCUP Data

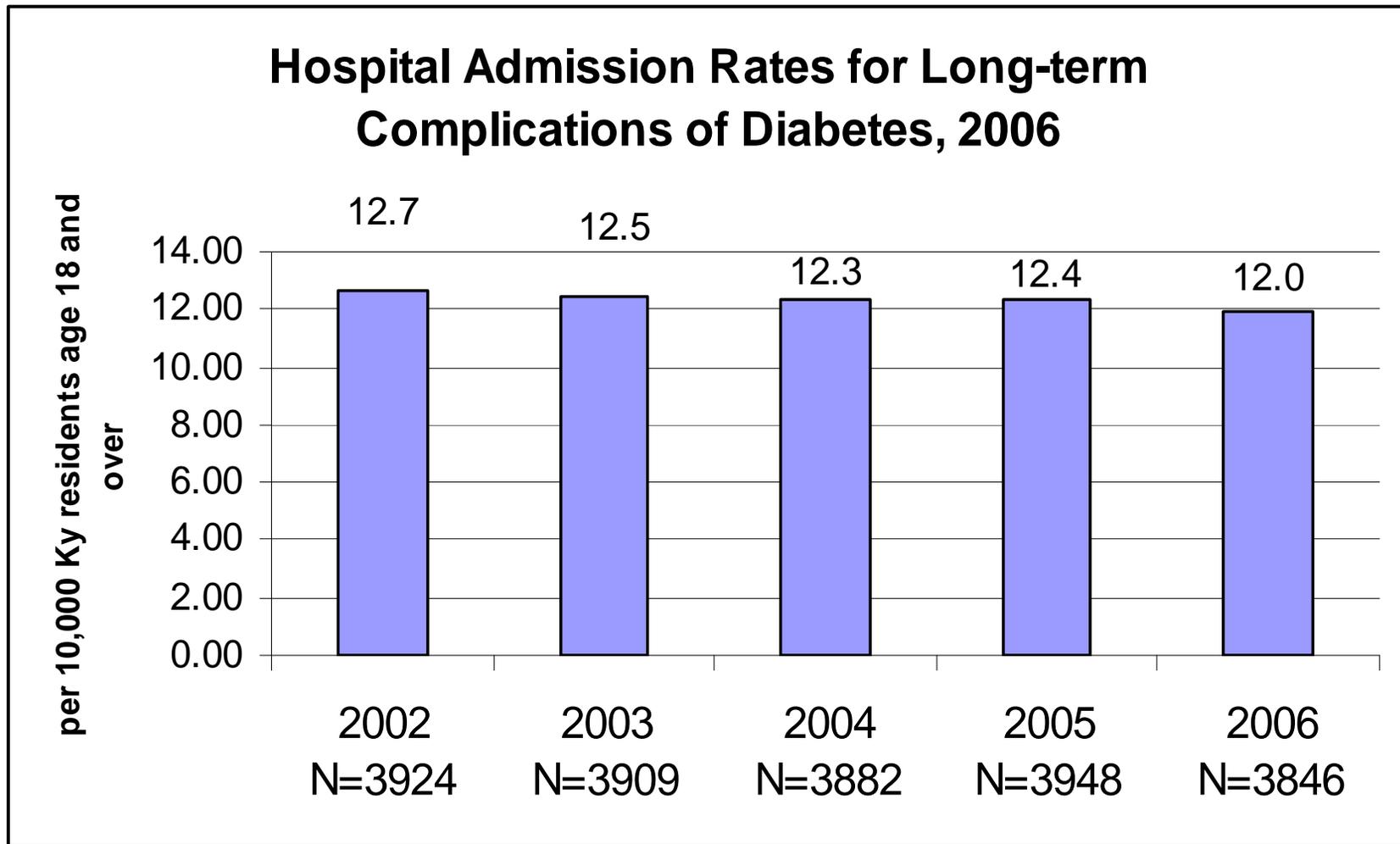
## Hospital Admission Rates for Uncontrolled Diabetes, 2006



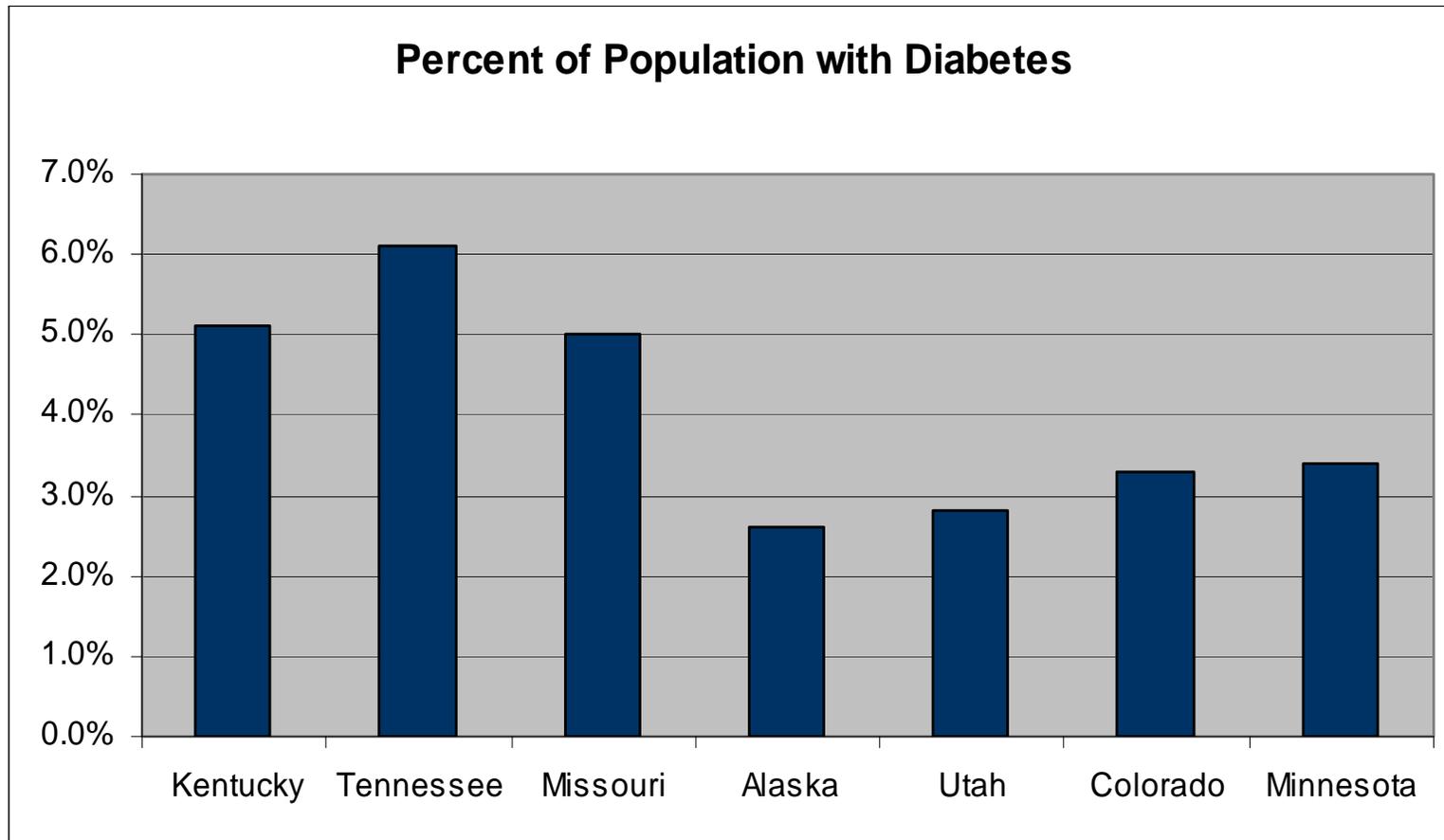
# Estimated Using Ideas from the Diabetes Guide + HCUP Data



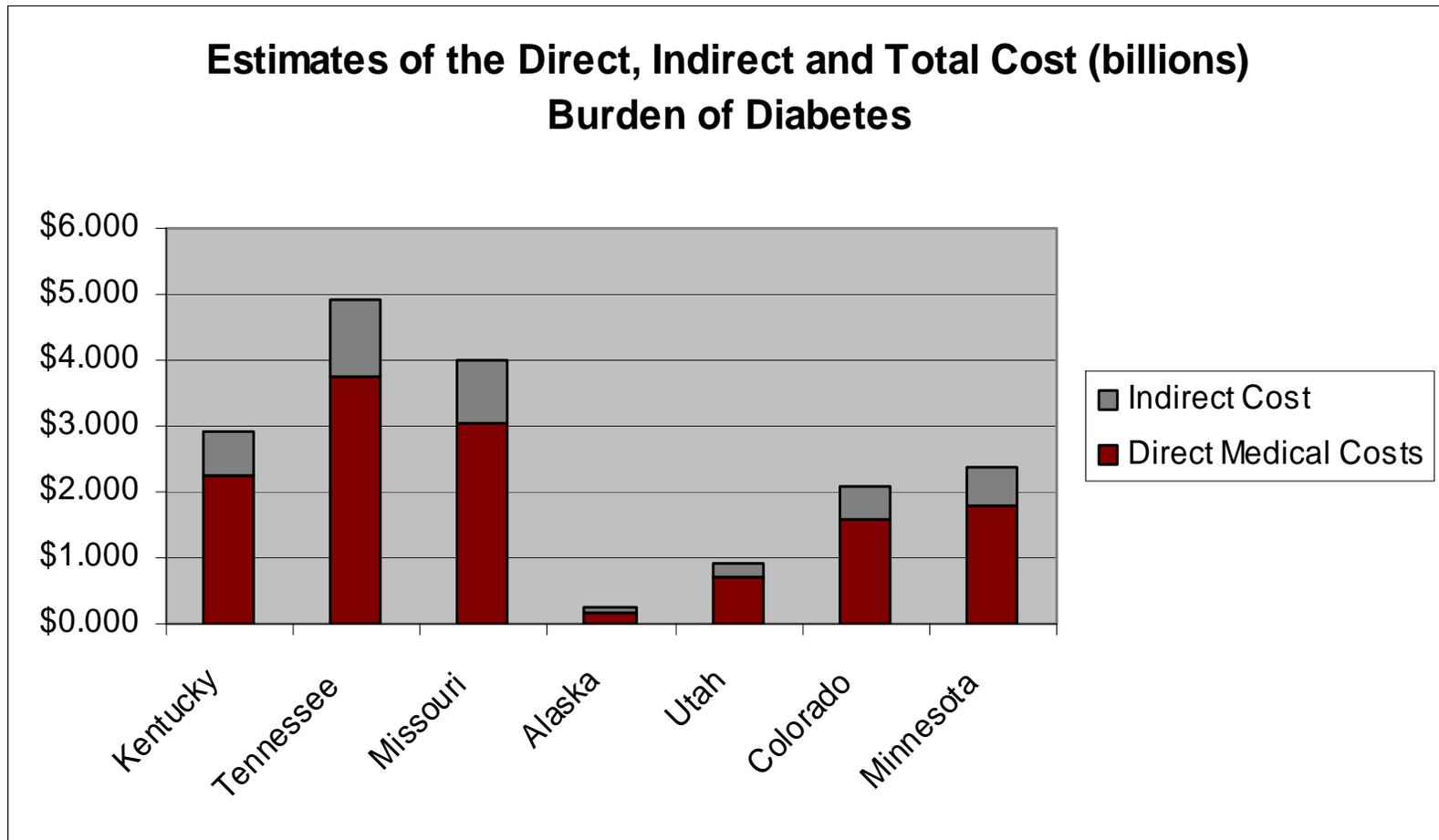
# Estimated Using Ideas from the Diabetes Guide + HCUP Data



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

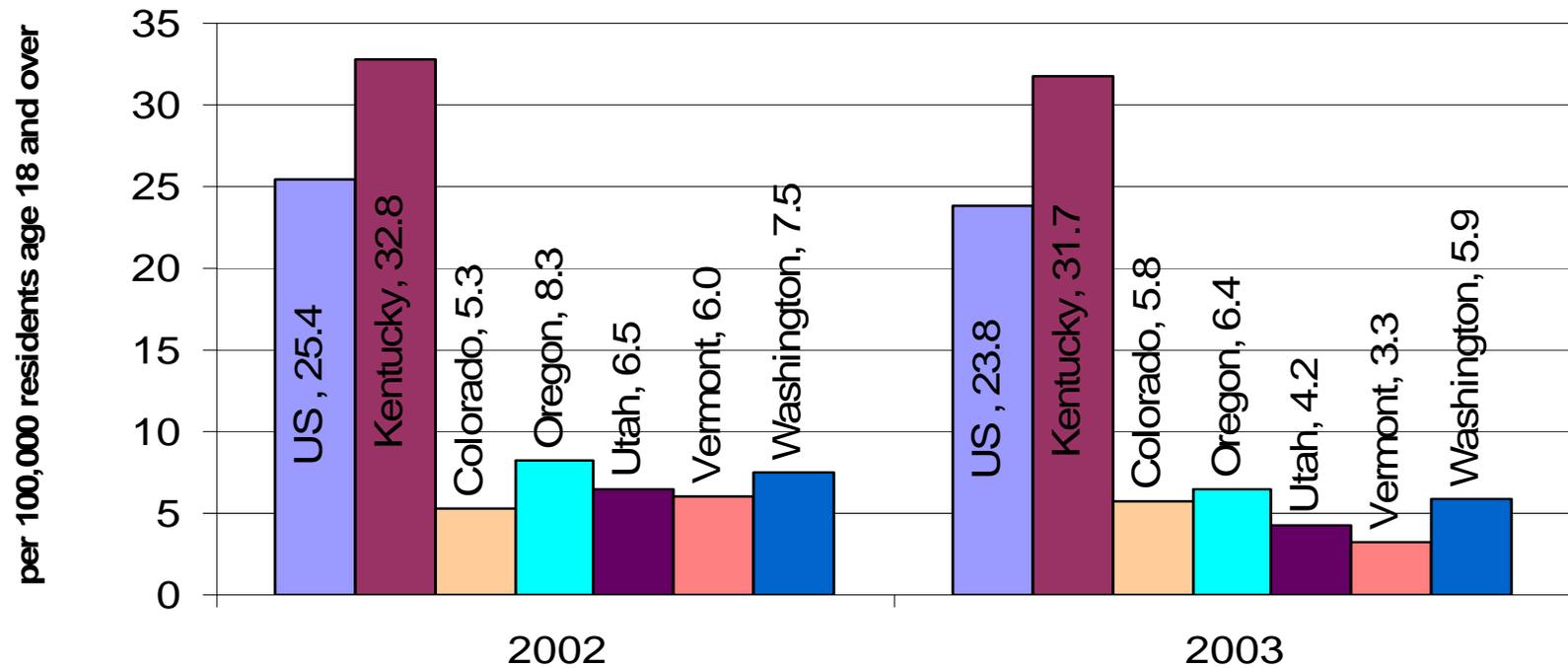


# Obtained from the Diabetes Guide



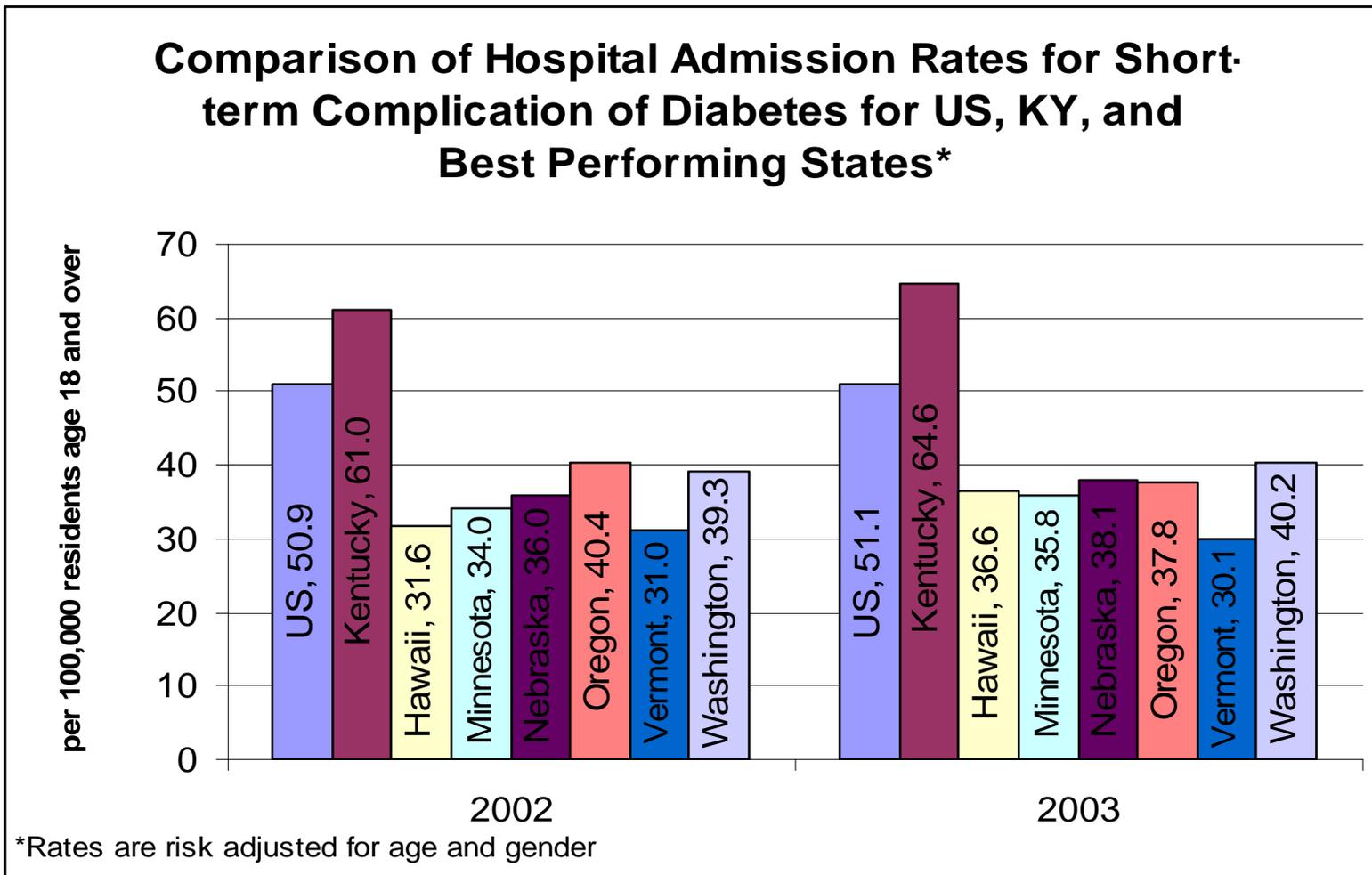
# New Display Using Diabetes Guide Data

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



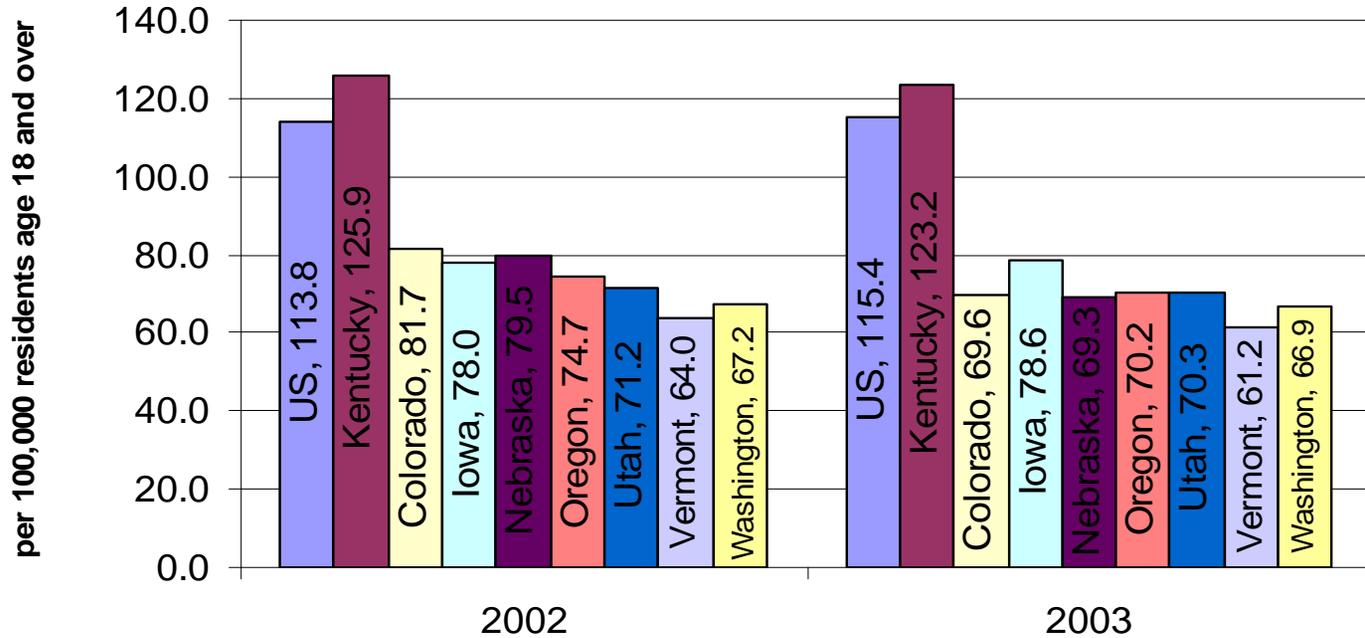
\*Rates are risk adjusted for age and gender

# New Display Using Diabetes Guide Data



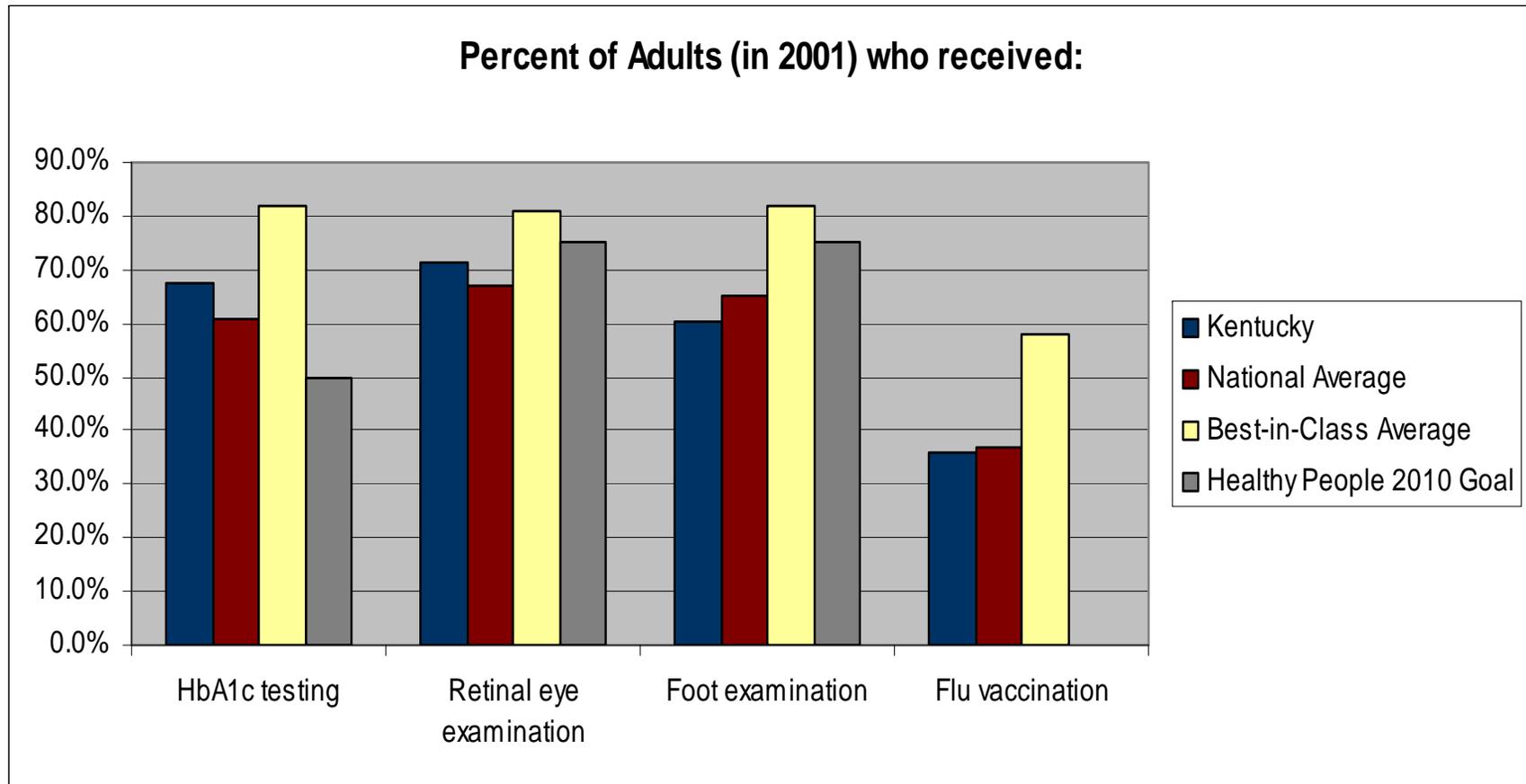
# New Display Using Diabetes Guide Data

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



\*Rates are risk adjusted for age and gender

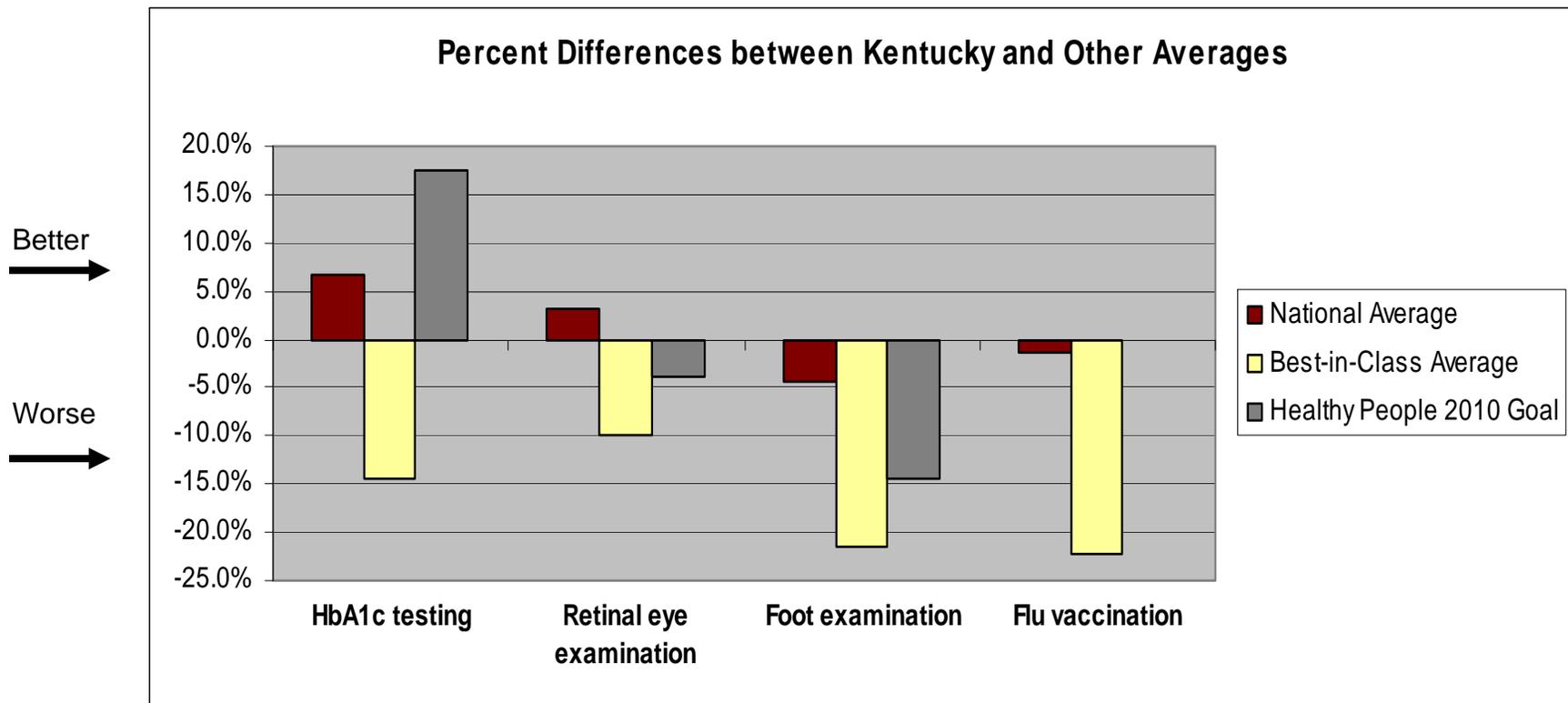
# New Display Using Diabetes Guide Data



Source: BRFSS & Diabetes Guide

↑ Target areas

# New Display/Estimates Using Diabetes Guide Data

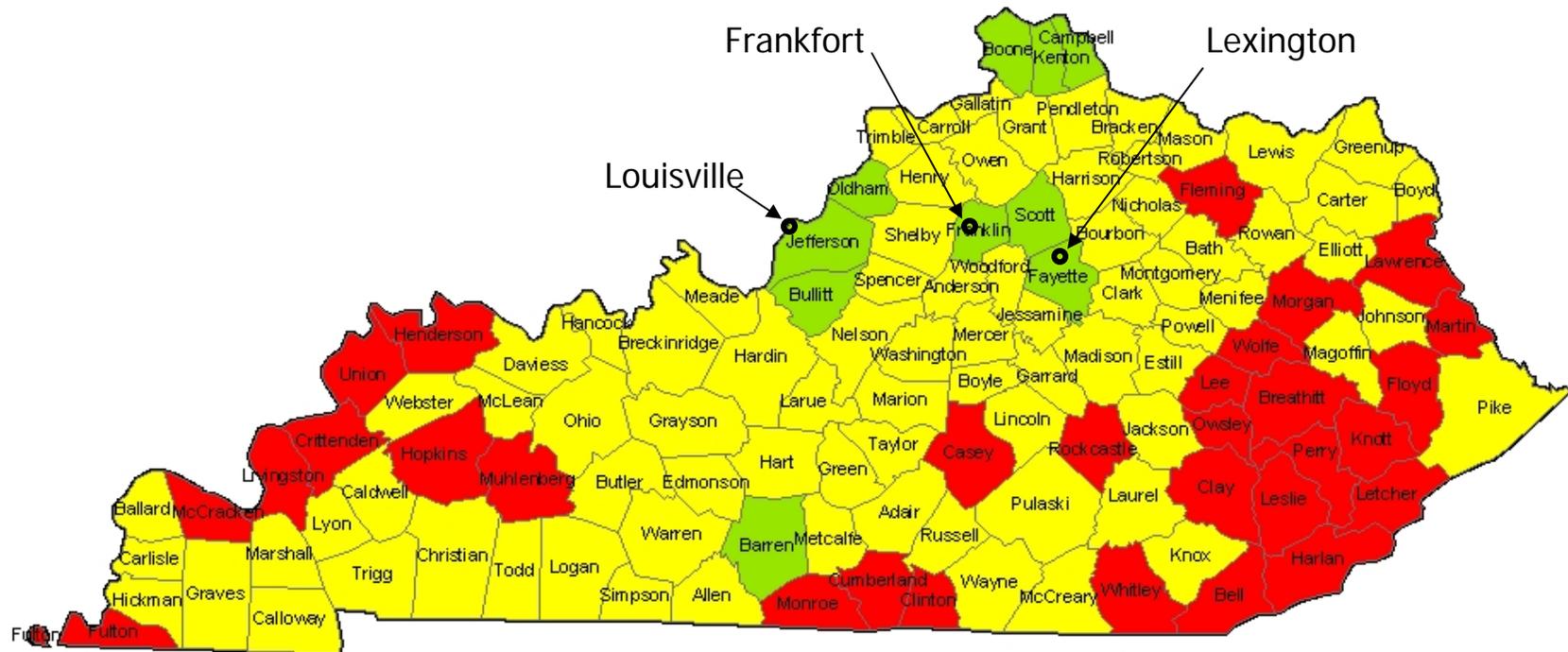


# County-Level Quality Improvement Data

## 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)

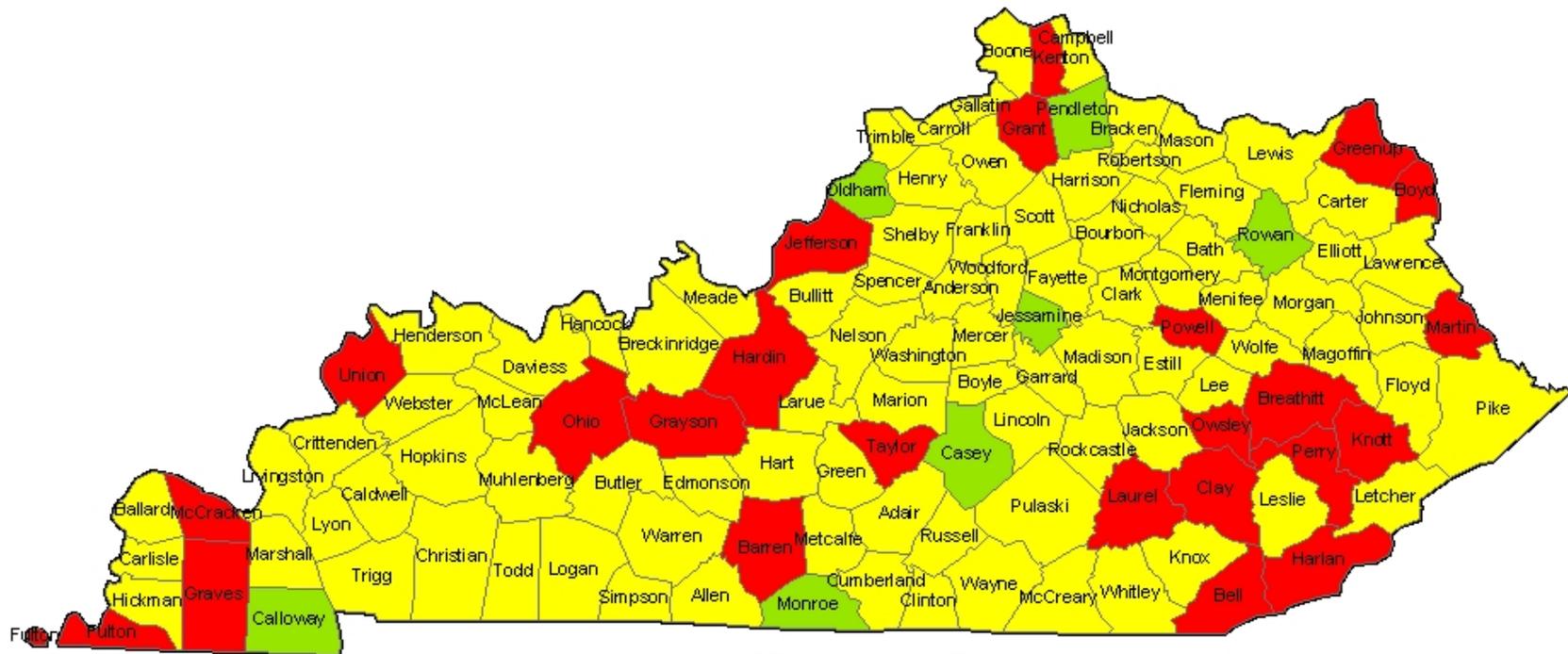
- Below National Average
- Comparable to National Average
- Above National Average

\*Population age 18 years or older

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

## 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

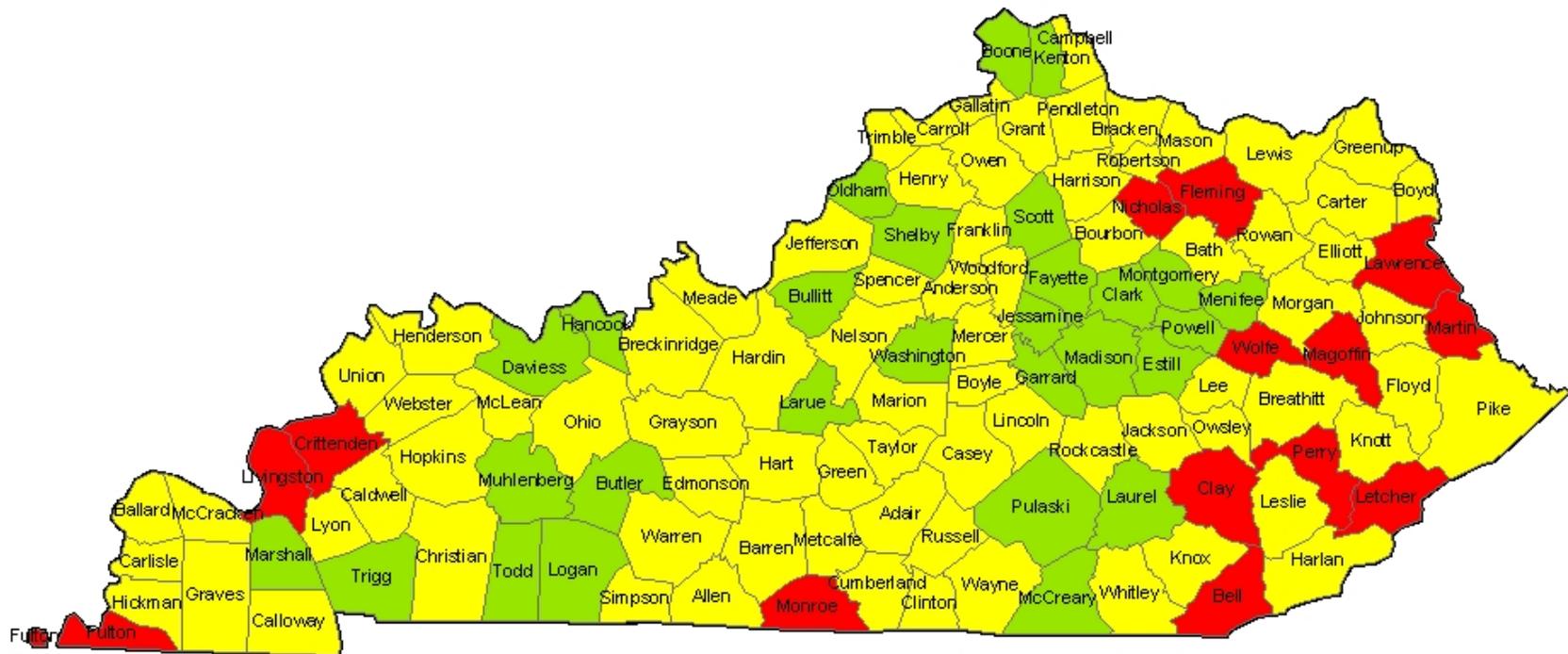
\*Population age 18 years or older

\*\*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>



# 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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**Kentucky**  
**UNBRIDLED SPIRIT**™

The logo features a stylized white horse head silhouette facing right, with a red and blue mane. The word "Kentucky" is written in a large, white, cursive font, and "UNBRIDLED SPIRIT" is written in a smaller, white, sans-serif font below it. A small "TM" trademark symbol is located to the right of the horse head.