



Kentucky's Lung Cancer Screening Success Story

The QUILS™ Group

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KY: Our Catchment Population



4.5
Million People

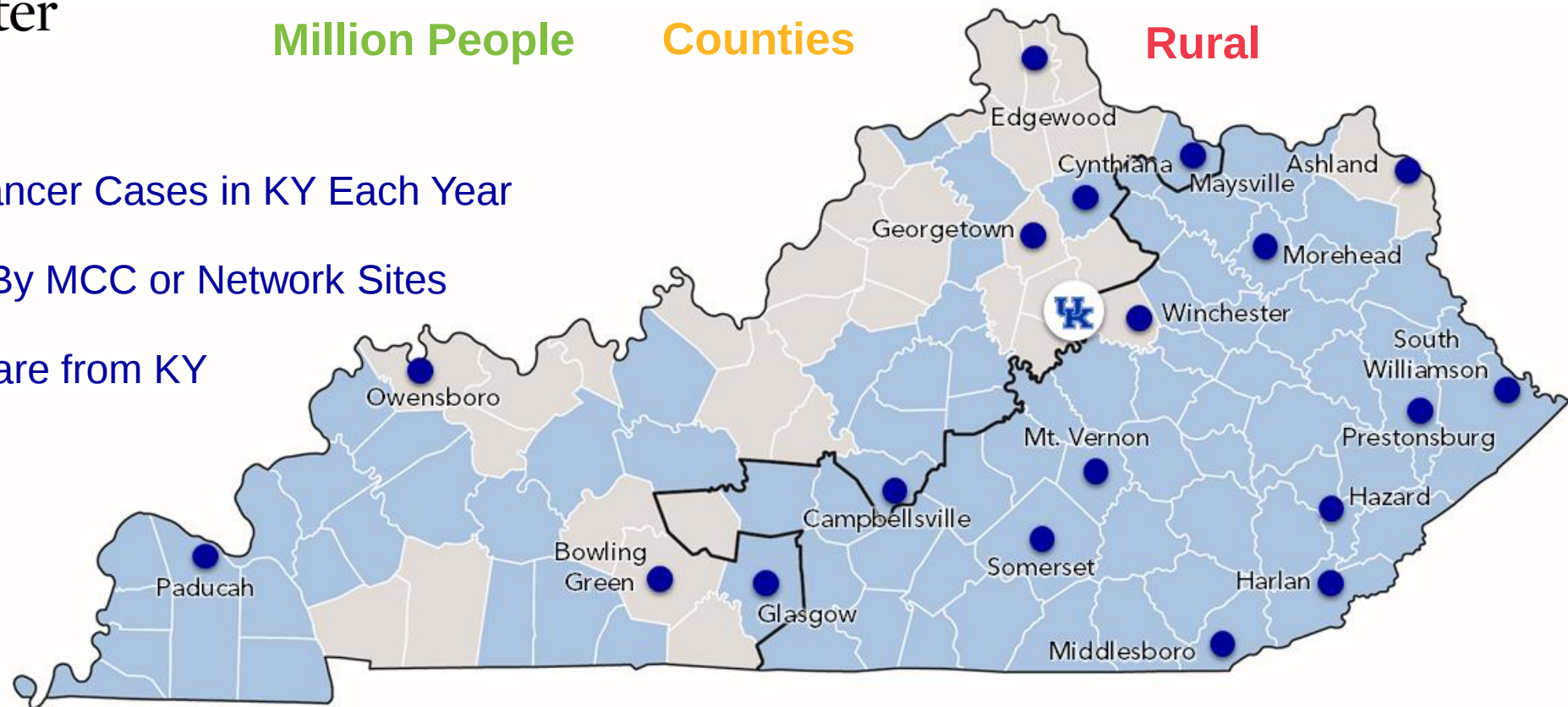
120
Counties

38%
Rural

- **29,000** New Cancer Cases in KY Each Year
- **38%** Cared For By MCC or Network Sites
- **97%** of patients are from KY

Urban

Rural

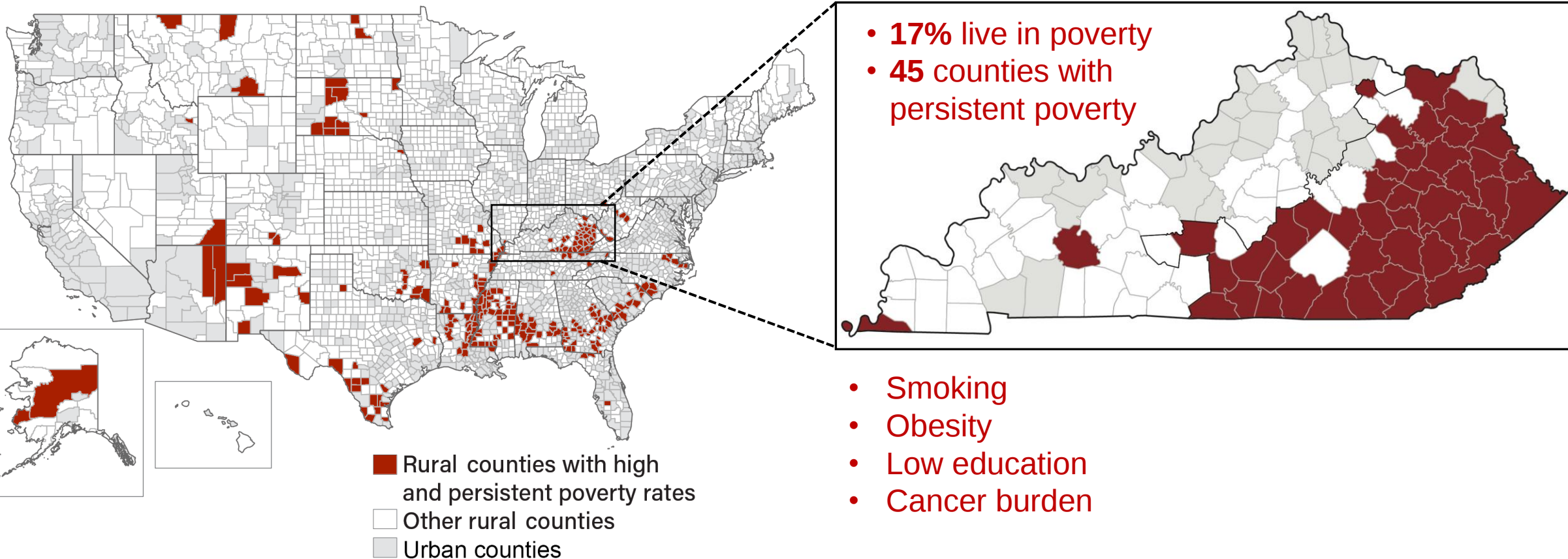


Network Of 20 Independently Operated Community Hospitals

Kentucky Challenges



Persistent Poverty

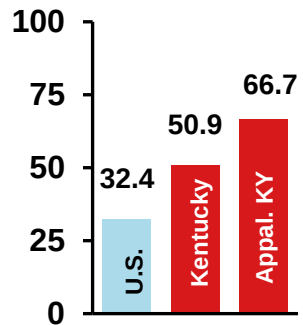
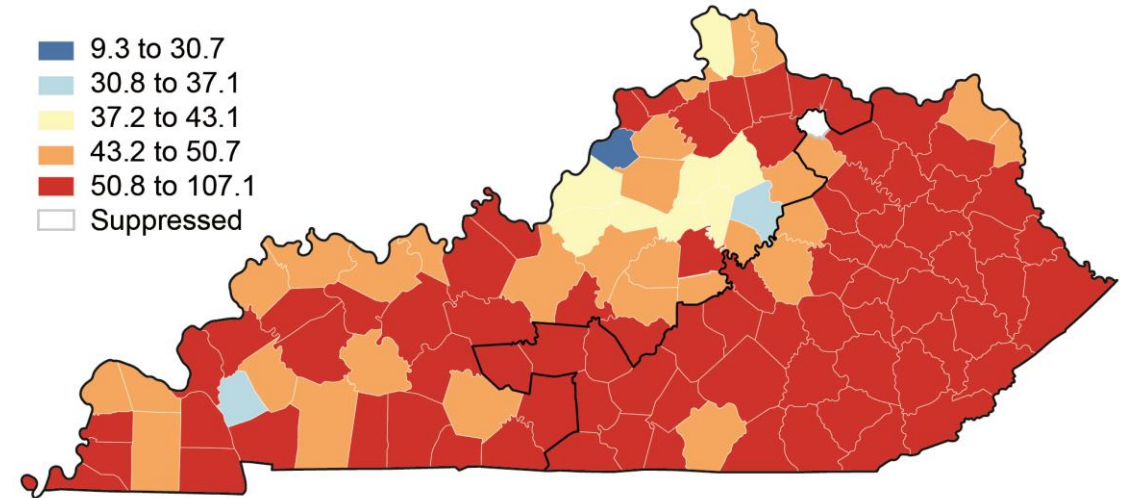
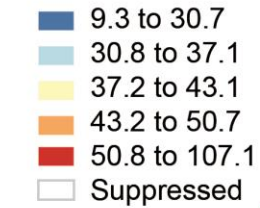
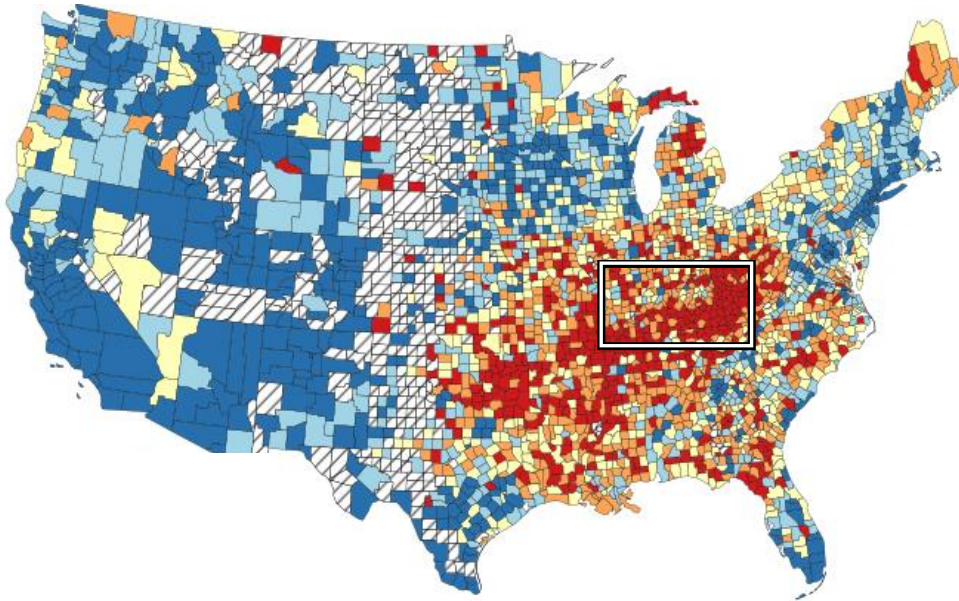
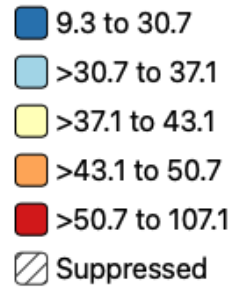


Lung Cancer Burden



Lung Cancer Mortality

Rate per 100,000
2018 - 2022



Kentucky Lung Cancer Problem



**“What are YOU doing
about YOUR Kentucky
lung cancer problem?”**



*—Linda Weiss, PhD, Director of Cancer
Centers (2010)*

The QUILS™ Group



Jennifer R. Knight, DrPH



Jamie Studts, PhD



Timothy Mullett, MD



Trey Alexander, MHA, PMP

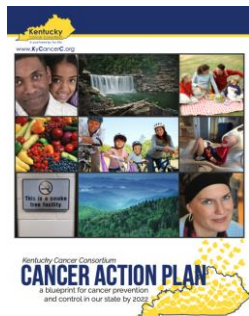


Quality Implementation
of Lung Cancer Screening

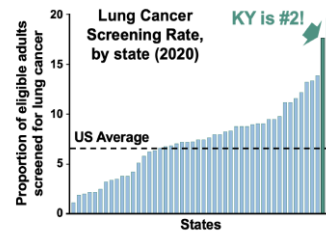


Allyson Yates, BS





LUNG CANCER
EDUCATION • AWARENESS
DETECTION • SURVIVORSHIP



Kentucky Public Health
Prevent. Promote. Protect.



Quality Implementation
of Lung Cancer Screening



Quality Implementation
of Lung Cancer Screening



2013

2014

2015

2022

2023

2024

Data showing need
Momentum
National Guidelines
Passionate Leaders
Regional Road Shows

New Cancer Action
Plan Update
Investment Funding
Source

Unified Efforts
Strengthened
Leadership Structure
Maximized Resources

Policy Changes
Data showing
impact

Virtual Learning
Collaborative LCS and
Equity
Updated QUILS™
System in W. KY

Social Marketing
Outreach
Patient Navigation
Expansion of QUILS™
system in KY
Virtual Learning
Collaborative: Looking
Forward
Expansion of QUILS™
system to MS and NV

Background

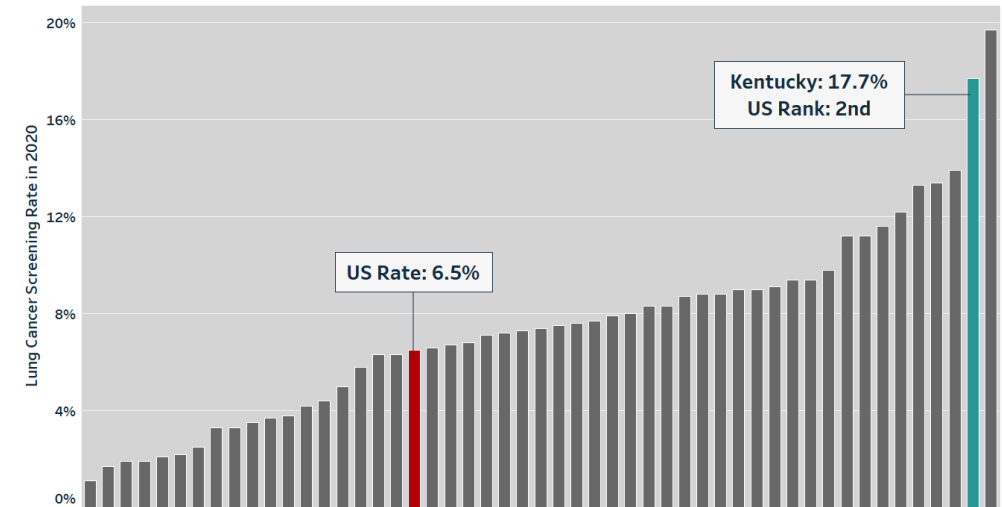


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Lung Cancer Screening Rates by State (Fedewa, et al., 2021)

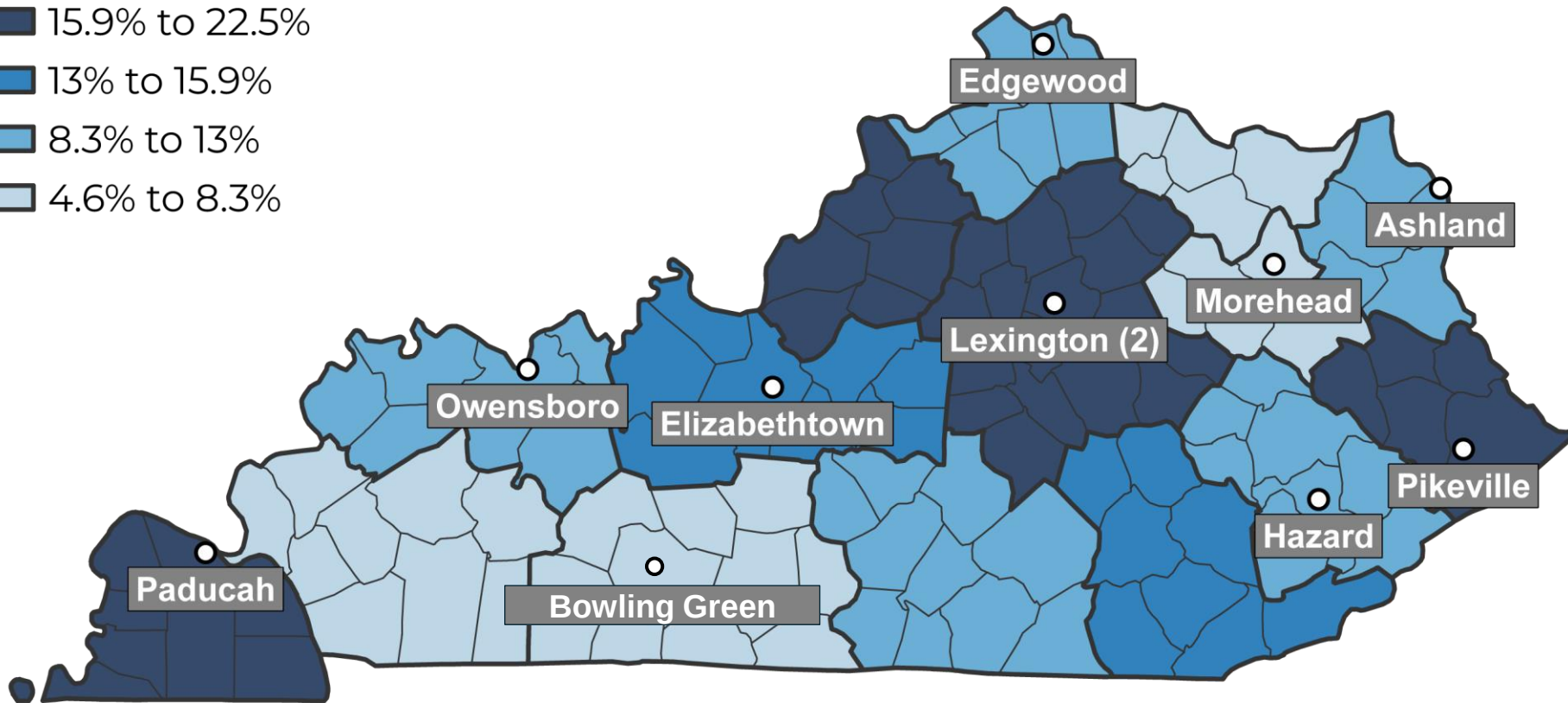
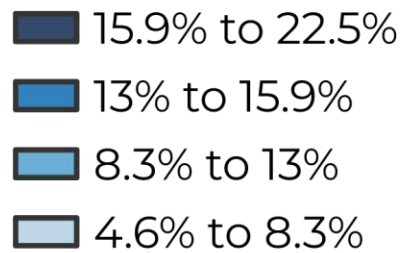


We developed the QUILS™ system
(Quality Implementation of Lung
cancer Screening) through our KY
LEADS Collaborative™ project

Kentucky LEADS™/QUILS™ Site + Screening Rates



Lung Cancer Screening Rates (2017 & 2019)

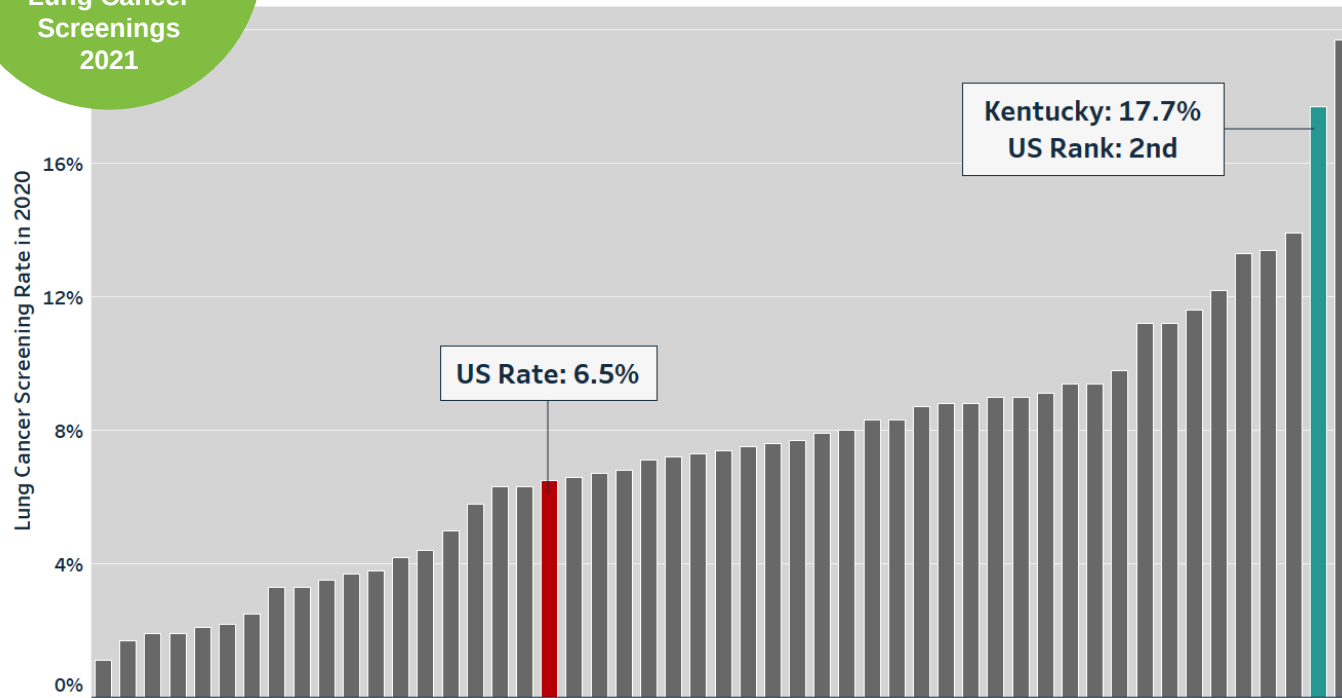


National Lung Cancer Screening Uptake Landscape

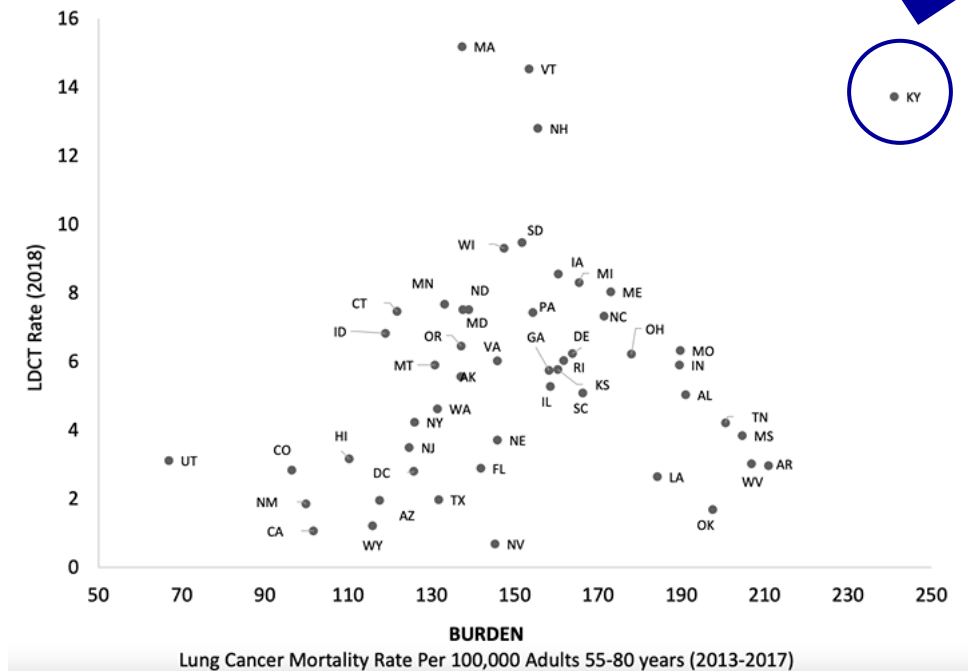


#2
Lung Cancer
Screenings
2021

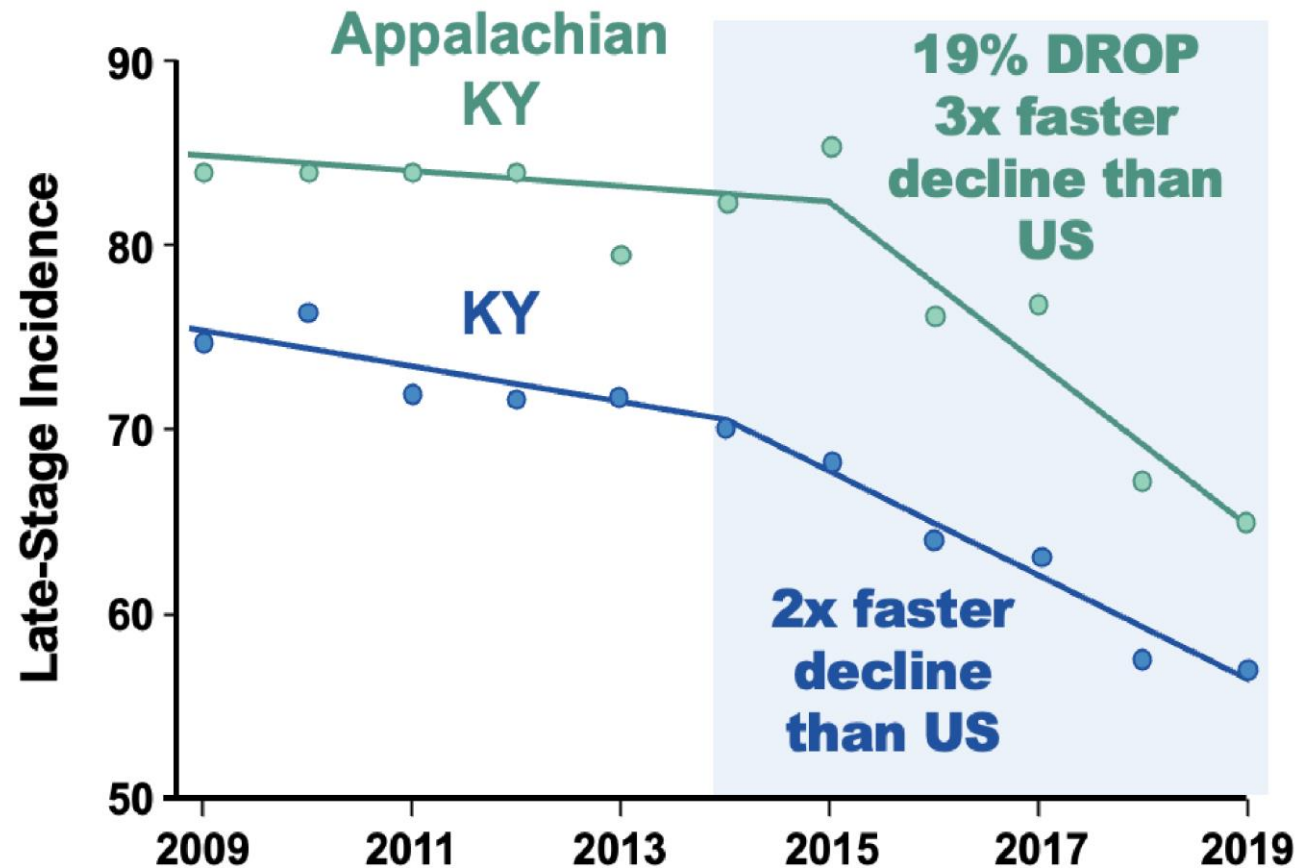
Lung Cancer Screening Rates by State (Fedewa, et al., 2021)



Kentucky — the only state with substantial lung cancer burden that is also leading statewide LCS implementation.



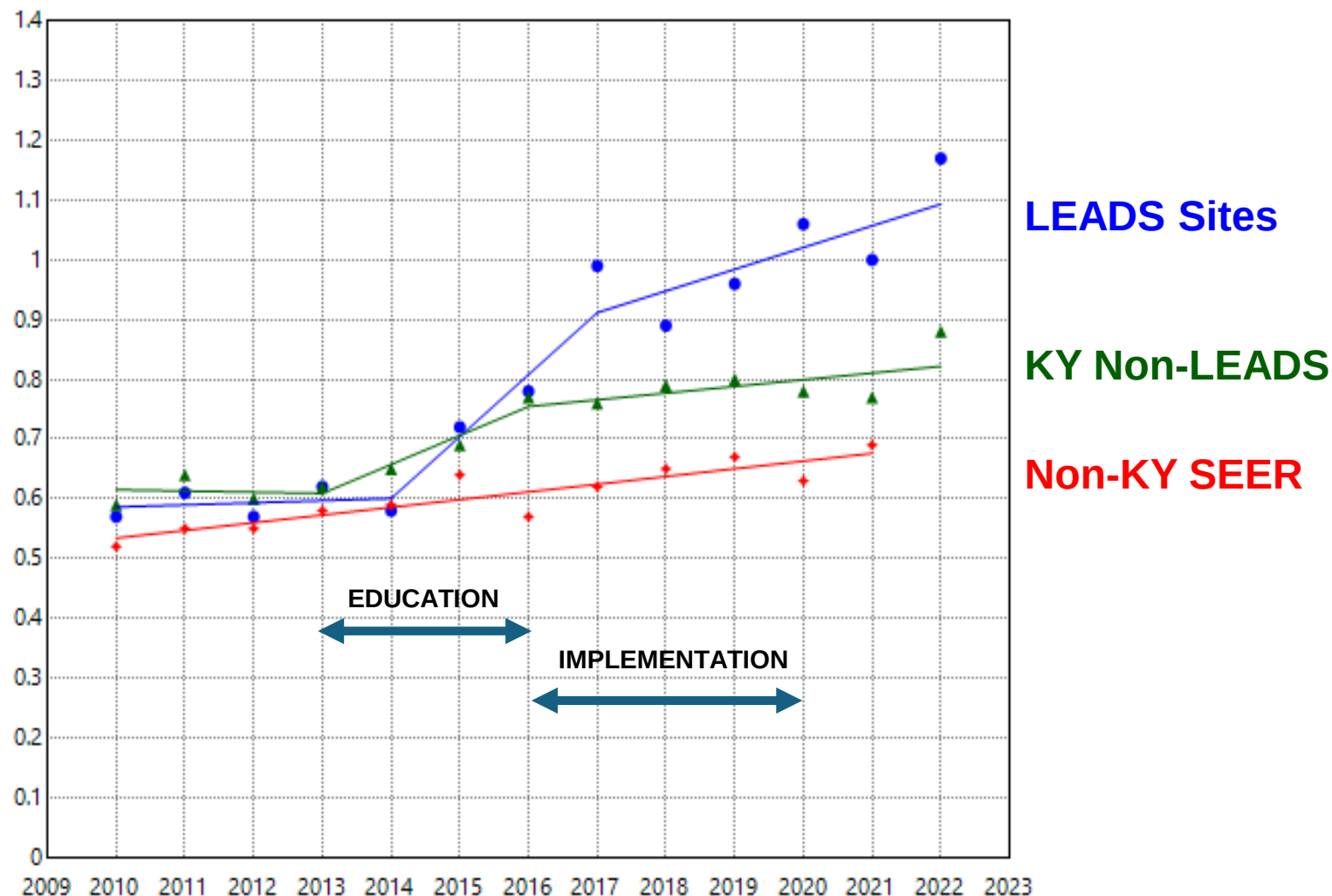
Late-Stage Lung Cancer Diagnosis in Kentucky (2009 - 2019)



Ratio of Stage I to Stage IV for NSCLC



- A new concept for evaluating lung cancer screening effectiveness
- QUILS™ System provides persistent impact



Preliminary Data pending publication

Kentucky State Lung Cancer News & Activity



- 2015 Engaging Policy Makers
- 2022 Legislative Session: HB 219
 - Sponsor drafted bill after LC Network discussions
 - Created Lung Cancer Screening Program and Advisory Committee
 - Provides oversight and funding
- COE advised on bill scope and language
- Unanimously passed State House and Senate
- Kentucky LEADS influenced focus on evidence-based quality metrics



Kentucky Governor Beshear signing HB 219 into law.

Building on KY LEADS Research Foundation



PLANNING GRANT

Bristol Myers Squibb Planning Grant to explore potential to expand LEADS experience to other states.

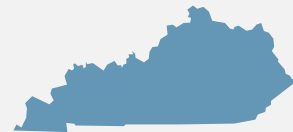


ASSESSMENTS

The QUILS™ leadership team assessed several states based on lung cancer burden, existing collaborations, current state of lung cancer screening and opportunities to address disparities.

SELECTION

Mississippi and Nevada were selected as leading candidates for expansion



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MAJOR GRANT SUBMITTED

We have submitted a 4-year, \$6.5 million proposal to enhance effectiveness and quality of lung cancer screening in these states.

This grant will focus on:

- Provider engagement
- Projected 12 sites for supported lung cancer screening programs
- Lung Cancer Screening Quality Implementation and Feedback
- Web-based training and statewide virtual learning collaboratives
- Enhanced advocacy for effective policy change



Incidence and Mortality

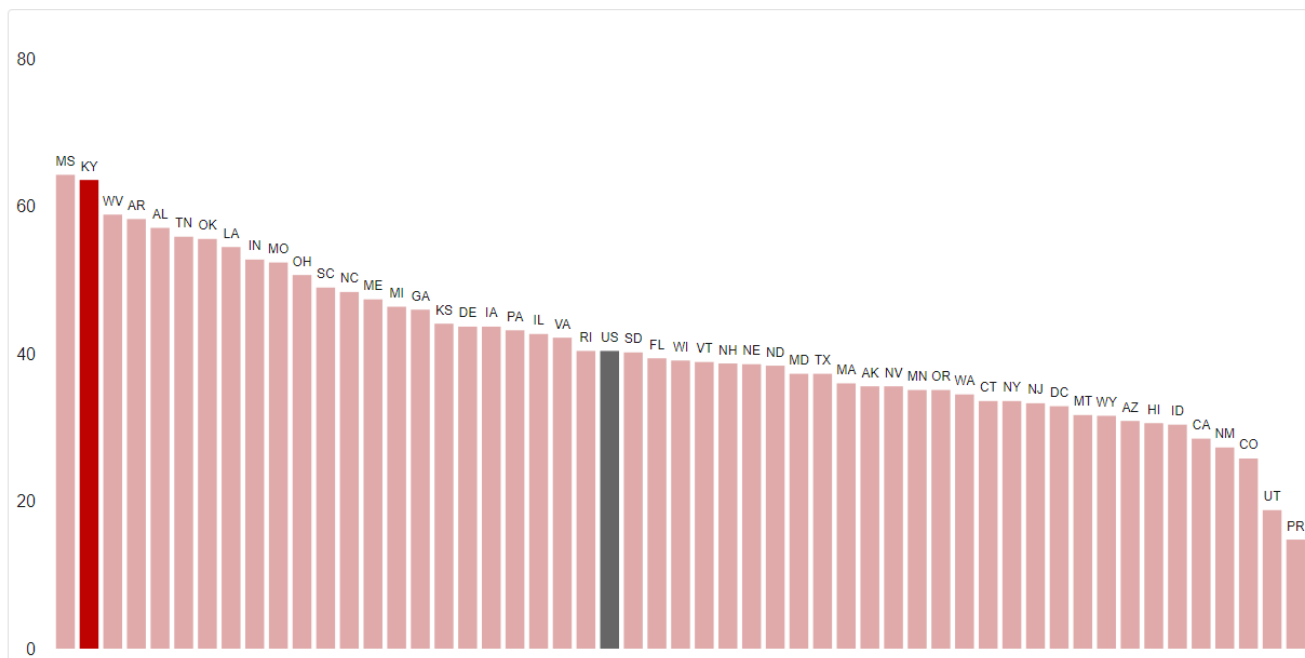


Incidence & Mortality Rates Among States

Kentucky Mortality Rates 2017-2021

Incidence Mortality

Sex: Male Type: Lung & bronchus



©American Cancer Society, 2024

Average annual rate per 100,000, age adjusted to the 2000 US standard population.

Data Sources: National Center for Health Statistics, Centers for Disease Control and Prevention, 2022

How does Kentucky compare?

63.6

Kentucky's mortality rate is higher than the national rate

40.4

National mortality rate

Mortality rates for 2017-2021