

Addressing the Impact of Tobacco and Alcohol Use on Cancer-Related Health Outcomes:

"A Cancer Center's Perspective"

B. Mark Evers, MD, FACS

National Cancer Policy Forum March 17, 2025



A Cancer Center Designated by the National Cancer Institute



Agenda

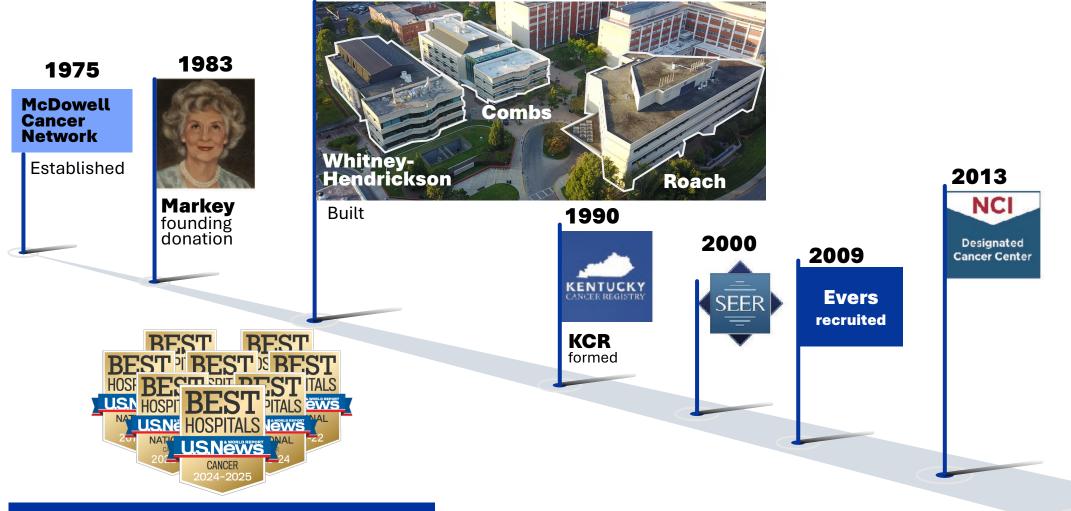
 Markey Cancer Center timeline, our catchment population and challenges

- Strategies to address our KY lung cancer problem
 - Smoking cessation/tobacco treatment programs
 - Lung cancer screening
 - Education
 - Survivorship
 - Public policy

Outcomes and changing a culture

Markey Cancer Center (MCC): Our 50 Year History

1986 to 1990



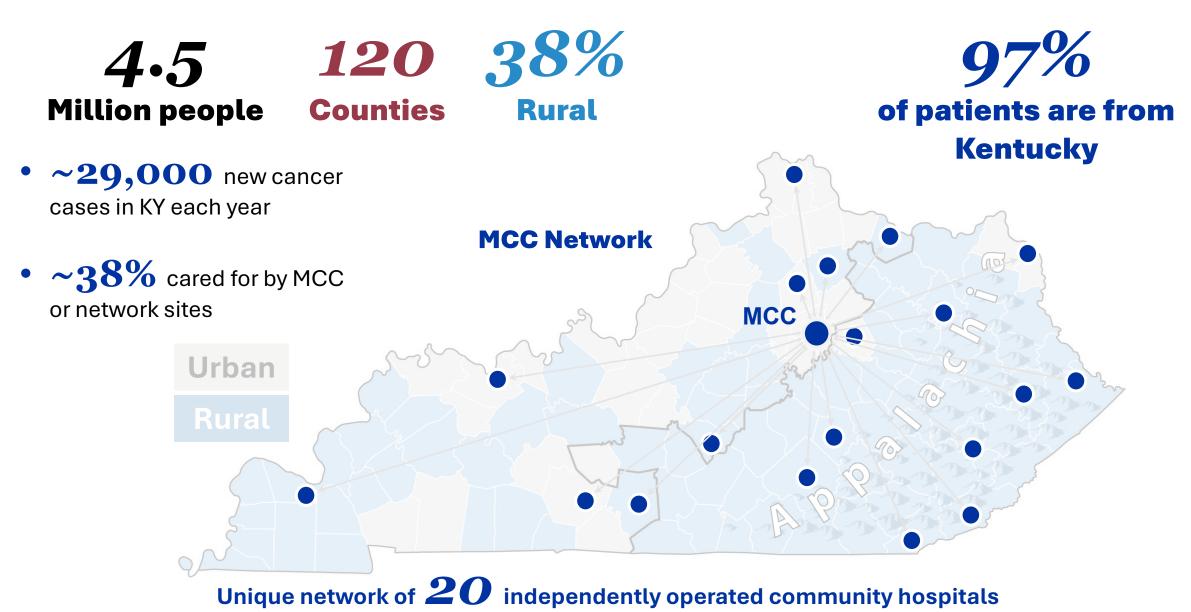
Designated
Comprehensive
Cancer Center

Comprehensive
designation

2023

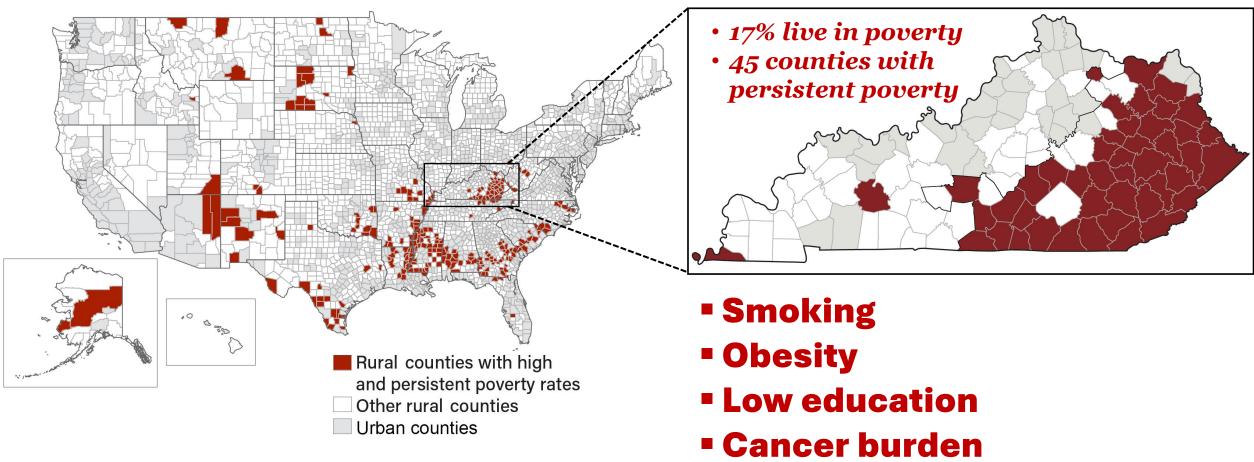
"Top 50" Cancer hospital 2017–2025

Kentucky: Our Catchment Population

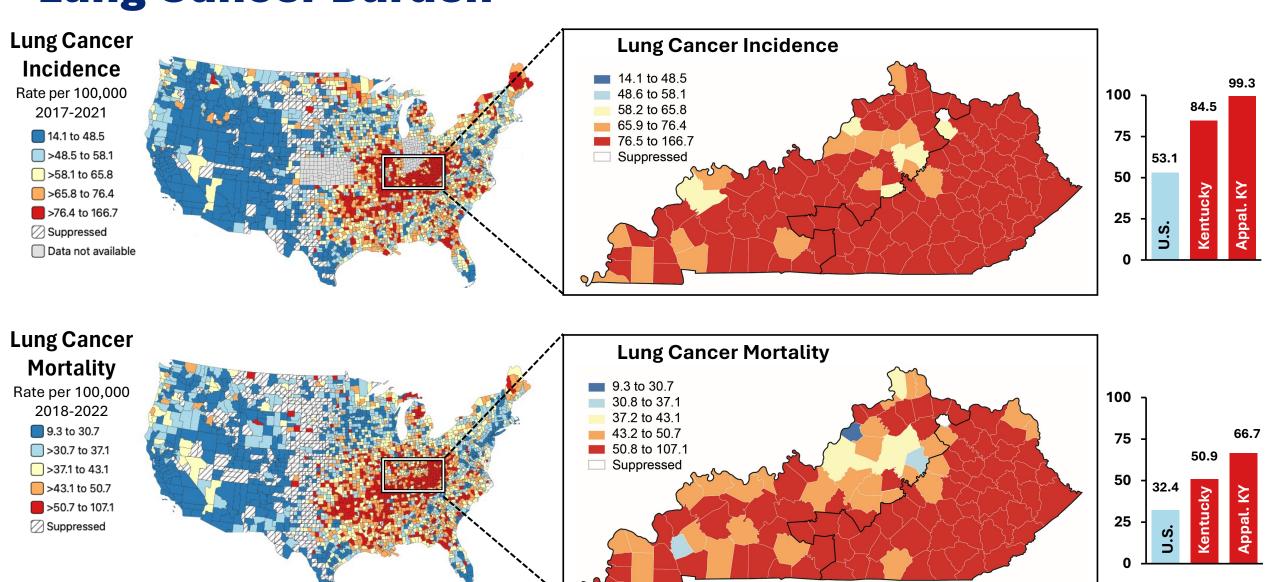


Kentucky Challenges





Lung Cancer Burden



Source: NIH NCI State Cancer Profiles, 2017/18-2021/22 data; KY Cancer Registry



"What are YOU doing about YOUR Kentucky lung cancer problem?"

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



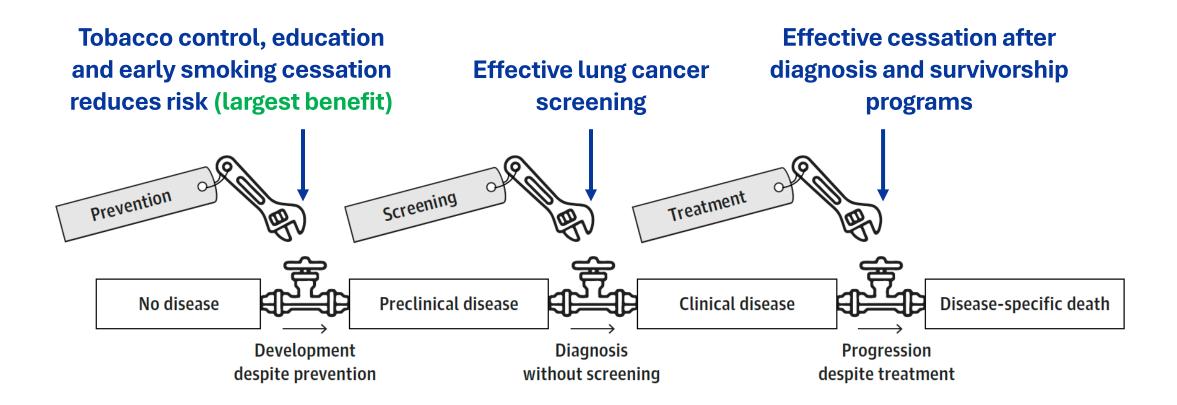
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Outcomes and changing a culture

Smoking Must be Addressed with All Steps of the Lung Cancer Continuum



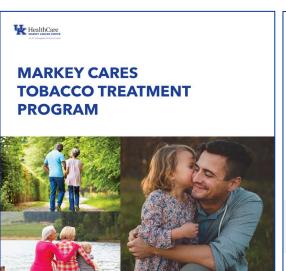
Smoking cessation may be the EASIEST, CHEAPEST, and LOWEST TOXICITY approach to significantly improve patient outcomes

Markey CARES Tobacco Treatment Program





VALENTINO







Cancer patients who report current tobacco use and accept an offer of cessation assistance





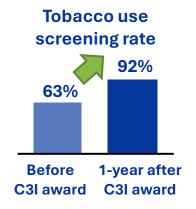
Free "in house" tobacco treatment from Psvch-Oncology

Outcomes:

20+

Oncology and supportive care providers trained as **Tobacco Treatment** Specialists (TTS)

Markey spearheaded the **UK HealthCare** system-wide adoption of an ereferral to the state auitline





Markey CARES screening program is now implemented at **Lexington Clinic**



Leading the Nation in Tobacco Treatment Delivery



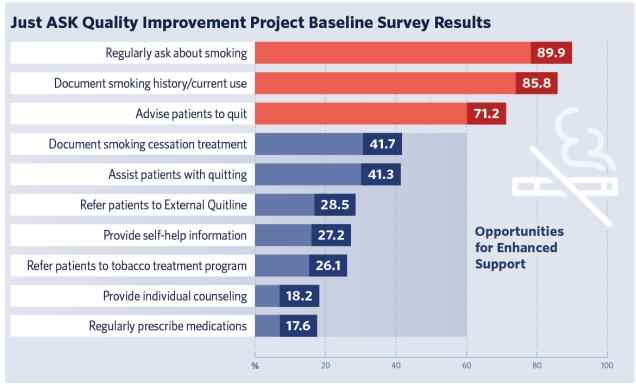
BURRIS



MULLETT



WARREN



American College of Surgeons

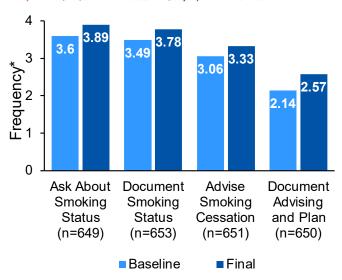
Original Reports | Health Services and Outcomes

Longitudinal Results From the Nationwide Just ASK Initiative to Promote Routine Smoking Assessment in American College of Surgeons-Accredited Cancer Programs

Jessica L. Burris, PhD¹ ; Jamie S. Ostroff, PhD² ; Eileen M. Reilly, MSWª ; Graham W. Warren, MD, PhD⁴; Rachel C. Shelton, ScD, MPH⁵; and Timothy W. Mullett, MD⁴; on behalf of the Just ASK Quality Improvement Task Force

Journal of Clinical

Oncology®



*Where 0=never or rarely and 4=almost always





AMERICAN COLLEGE OF SURGEONS

Impact

 This large quality improvement project demonstrates the feasibility of implementing smoking assessment as standard cancer care, doing so in a diverse sample of ≃750 accredited cancer programs nationwide (~650,000 cancer patients)

Kentucky LEADS Collaborative



MULLETT



LUNG CANCER

EDUCATION · AWARENESS DETECTION · SURVIVORSHIP

Bristol Myers Squibb™ Foundation

Provider Education





Survivorship Care





Precision **Lung Cancer** Survivorship

Prevention and Early Detection





Kentucky Health Collaborative

Kentucky Lung Cancer Screening Program

Building on KY LEADS Research Foundation



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.

PLANNING GRANT

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

Bristol Myers Squibb

SELECTION

Mississippi and Nevada were selected as leading candidates for expansion



LUNG CANCER EDUCATION · AWARENESS DETECTION · SURVIVORSHIP

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.

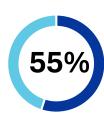
This grant will focus on:

- · 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

Bristol Myers Squibb Foundation

Survivorship for Patients with Advanced Stage Lung Cancer

Survival has improved; unmet care needs persist



Unmet supportive care needs related to psychological wellbeing, physical and daily living





"Hope"-based interventions as a promising approach to support mental health and quality of life during treatment HEALTH PSYCHOLOGY



MCLOUTH

"Pathways," A Hope-Based Intervention for **Patients with Advanced Stage Lung Cancer**



Theory-based psychological intervention embedded in cancer care, designed with patient and provider input



EDITORIAL

Hope-enhancement interventions: A third wave coalesces

Definitive Efficacy Trial:

- 1. Efficacy depression symptoms (primary), quality of life, positive affect
- 2. Mechanisms
- 3. Intervention completion and benefit (≥ 65 yrs vs. <65; rural vs. urban; male vs. female)

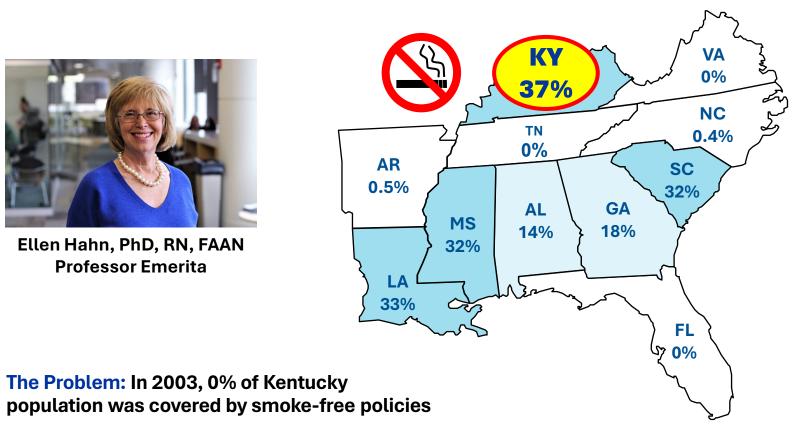


2025 Citation Award

Smoke-Free Policy Research: Kentucky 2025



Ellen Hahn, PhD, RN, FAAN **Professor Emerita**



- The Plan: Through support from Markey Cancer Center, a Robert Wood Johnson grant and NIH funding, Kentucky Center for Smoke-Free Policy was established at UK by Dr. Ellen Hahn
- The Result: 37% of the Kentucky population is currently covered by local non-hospitality workplace, restaurant, and bar smoke-free ordinances (highest of all southern states)





Culture change from "tobacco economy" to smoke-free policy

Kentucky State Lung Cancer Screening Initiative

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

Kentucky Needs HB 219

Lung Cancer is a substantial burden and threat to Kentuckians.

 Lung cancer is the most common cancer worldwide and kills more Kentuckians than breast, prostate and colon cancer combined.

Kentucky's National Rankings for Lung Health:

- o 50th in Overall Cancer Mortality
- o 50th in Lung Cancer Mortality
- o 49th in Adult Smoking/Tobacco Use
- 50th in Youth Tobacco Use
- Approximately 5% of eligible U.S. adults receive a Lung Cancer Screening (LCS) (less than 1 in 20), which is significantly less than other national cancer screening rates (76.4% for Breast Cancer Screening and 68.8% for Colorectal Screening).
- Early detection is key, early detection saves lives; more Kentuckians need to be screened for Lung Cancer.
- Lung Cancer advocacy deserves and needs equal state prioritization in Kentucky as compared to breast and colon cancers, respectively.



Kentucky 2022 Total New Cancer Cases 30,370 Lung Cancer Cases 4,990 - Lung Cancer Deaths 2,730

HB 219 Would:

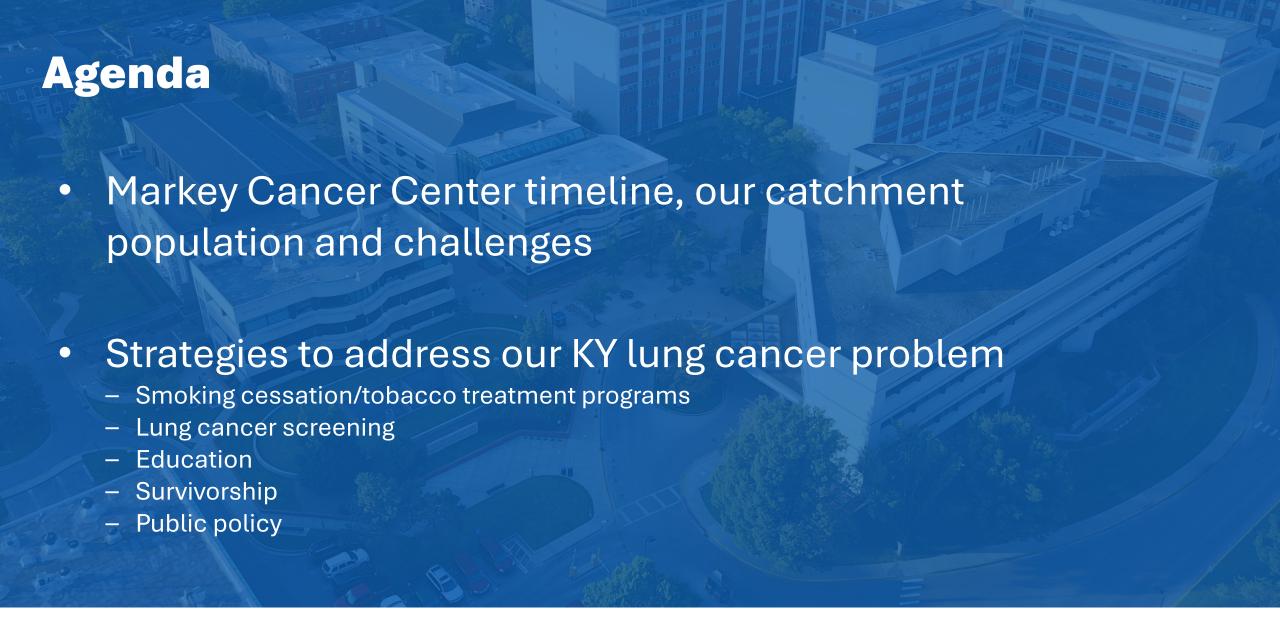
- Amplify existing lung cancer out would bolster the State's positio lives of Kentuckians who are or v
- <u>Create</u> a Lung Cancer Screening Lung Cancer Screening Adviso together to increase lung cancer s mortality from lung cancer.

Sources: (American Cancer Society, 2022, American Lung Association, 2021, Americas Health Rankings, 2021, KY, Notional Concer Institute, 2021)

Signing of House Bill 219

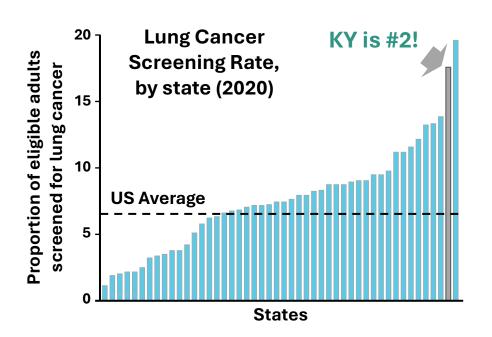


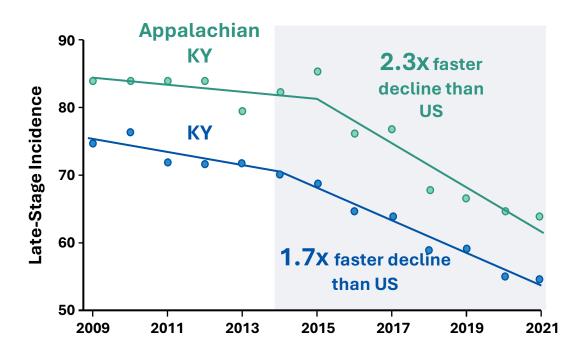
Dr. Pamela Hull Kentucky Governor Andy Beshear Dr. B. Mark Evers



Outcomes and changing a culture

Impacting Late-Stage Lung Cancer Diagnoses in Kentucky





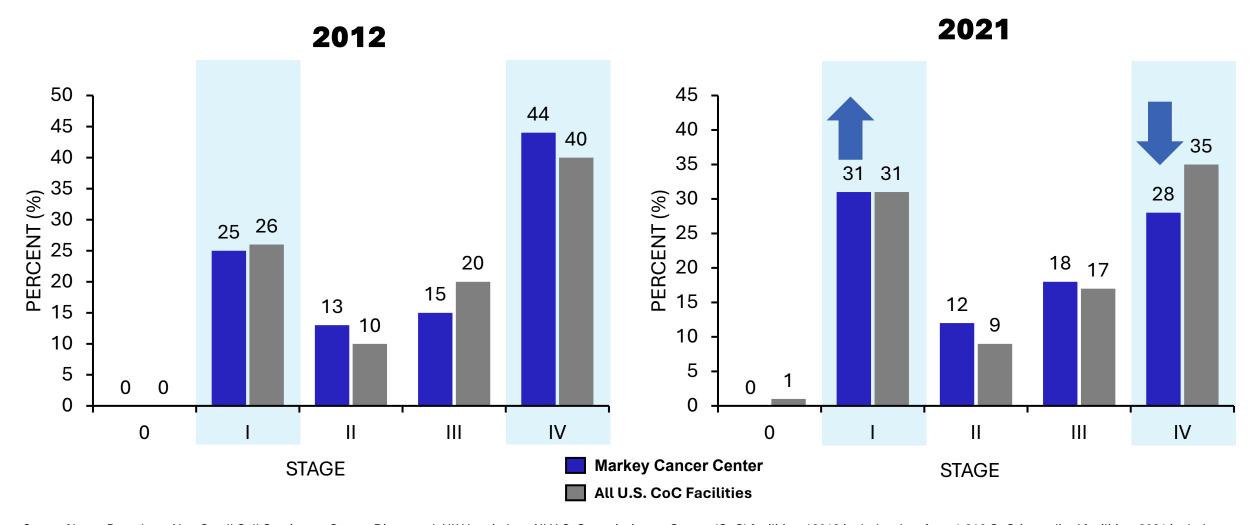
"Kentucky, which has supported screening implementation efforts, is unique as its screening rates are over twice the national average and four times that of other high lung cancer burden states, like West Virginia and Arkansas."

—ASCO post, 2021

Impact

 Lung cancers identified at earlier stages with notable progress in KY and Appalachian KY

Lung Cancer Stage Shift - Cases Diagnosed and Treated at Markey Cancer Center vs U.S., 2012 and 2021

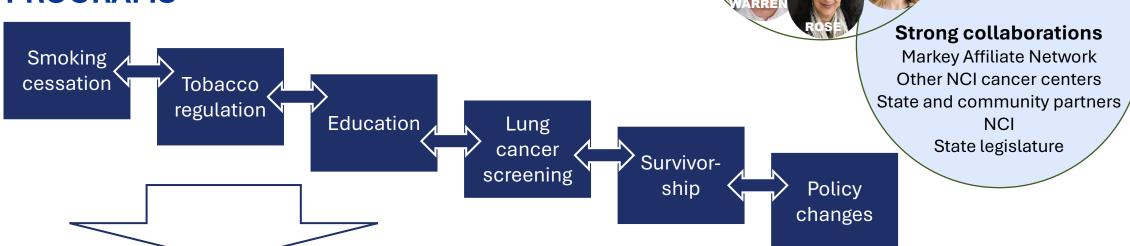


Stage of Lung, Bronchus - Non-Small Cell Carcinoma Cancer Diagnosed; UK Hospital vs. All U.S. Commission on Cancer (CoC) facilities; *2012 includes data from 1,216 CoC Accredited facilities; 2021 includes data from 1,287 CoC Accredited facilities

Summary

 Goal (2010): To reduce KY smoking rates and decrease lung cancer incidence and mortality

PROGRAMS



STRATEGIES

Outstanding investigators

Multi-source research funding NIH

State MCC

Foundations

ACS

- Shift in late- to early-stage lung cancer diagnoses
- Changing a culture in Kentucky

