



SESSION RECAP

Kentucky Lung Cancer Screening Learning Collaborative

WYNTK About Lung Cancer Screening Eligibility

February 26, 2026



Access the recording [here](#)

Access the slides [here](#)

Summary of the session

This educational session from the **Kentucky Lung Cancer Screening Learning Collaborative** provides a comprehensive overview of lung cancer screening guidelines, with a focus on **eligibility criteria, evidence-based decision-making, and practical implementation challenges**. The central theme is that **eligibility guidelines are not barriers, but protective frameworks** designed to maximize benefit and reduce harm in population health.

The session highlights that lung cancer screening (using low-dose CT) is **highly effective when targeted appropriately** but can cause significant harm when applied too broadly. Therefore, adherence to evidence-based eligibility criteria—primarily defined by **age and smoking history**—is essential for delivering safe, equitable, and impactful care.

Subject Matter Expert

- **Plenary Speaker:** Jamie Studts, PhD, University of Colorado School of Medicine and the University of Colorado Cancer Center

Presentation Highlights:

1. Core Eligibility Guidelines

- **USPSTF (2021):**
 - Age **50–80**
 - **≥ 20 pack-year** smoking history
 - Current smoker or quit within **15 years**
- **CMS (Medicare):** Similar but excludes older age range (generally up to 77).
- These guidelines **determine insurance coverage under the Affordable Care Act**, making them the most operationally important.
- Other organizations (ACS, NCCN) issue guidelines but **do not control coverage decisions**.

2. Variability Across Guidelines

- **American Cancer Society (2023)** and **NCCN** removed the **“15-year quit” rule**, broadening eligibility.
- NCCN also incorporates non-evidence-based risk factors (e.g., environmental exposures).
- These differences reflect **varying interpretations of evidence and tolerance for uncertainty** but also create confusion in practice.

3. Evidence Base for Screening

- Landmark trials (**NLST and NELSON**) show that screening reduces lung cancer mortality by **~20%**.
- However, **benefits are concentrated in the highest-risk individuals**, not evenly distributed across all eligible populations.

4. The Critical Benefit–Harm Balance

Screening decisions are based on **net benefit**, not just early detection.

- Screening must **help people live longer and better**, not just detect cancer earlier.

Key harms include:

- Physical: unnecessary procedures
- Psychological: anxiety
- Financial: patient/system costs
- Opportunity costs: time and resources

Example:

- In the NLST trial, **96% of suspicious findings were false positives**, leading to additional testing and procedures without benefit.

5. Why Eligibility Criteria Exist

- Benefits of screening increase with **higher risk levels**, while harms are more prominent in lower-risk individuals.
- Expanding eligibility to lower-risk populations:
 - **Dilutes benefit**
 - **Increases harm**
 - Misallocates limited resources

→ **Key message:** Eligibility criteria are “**participant protections,**” not restrictions.

6. Misconceptions and Complexity

- Screening is often oversimplified (“just do it”), but in reality, it involves:
 - Complex **risk stratification**
 - Interpretation of **biases** (lead-time, overdiagnosis, etc.)
 - Careful balancing of **population-level outcomes**

7. Implementation Challenges

- **Low uptake:** <10% of eligible individuals receive screening.
- **Care fragmentation and disciplinary differences:**
 - Oncologists see benefits
 - Primary care providers manage burden and harms
- Screening is a **process**, not a one-time test—requiring follow-up and adherence.

8. Social Determinants and Equity

- Eligible populations are more likely to:

- Have **lower income and education**
- Lack access to care
- Live in rural or underserved areas

→ Therefore, lung cancer screening requires **targeted outreach**, not broad population campaigns.

9. Targeted vs. Population Screening

- Lung cancer screening is a **targeted intervention** (based on risk), unlike colorectal or breast screening.
- Expanding to population-based models without evidence risks **harm and inefficiency**.

Session: Key Take-Aways

Strategic Takeaways

- **Adhere to USPSTF/CMS criteria**—they are evidence-based and tied to coverage
- Focus on **high-risk populations**, where benefit is greatest
- Use **shared decision-making** to communicate benefits, harms, and patient preferences
- Treat eligibility criteria as **safeguards**, not barriers

Operational Takeaways

- Screening should be implemented as a **longitudinal program**, not a one-time event
- Improve **uptake among currently eligible individuals** before expanding criteria
- Develop **targeted outreach strategies** for high-risk, underserved groups
- Strengthen **care coordination** between primary care and specialty services

Policy & Research Takeaways

- Expansion of eligibility must be **evidence-driven**, not opinion-based
- Research should address both **benefits AND harms** of screening in new populations
- Resource allocation should prioritize **proven, high-value interventions**

Clinical Mindset Shift

- Move from:
“Screen as many people as possible”
- To:
“Screen the right people in the right way to maximize benefit and minimize harm.”

Resources

- U.S. Preventive Services Task Force (USPSTF) Recommendation Statement for Lung Cancer Screening – click [here](#)
- Centers for Medicare & Medicaid Services Screening for Lung Cancer with Low Dose Computed Tomography: Decision Summary – click [here](#)

Subject matter expert contact information:

Jamie Studts, PhD	University of Colorado School of Medicine and the University of Colorado Cancer Center	jamie.studts@cuanschutz.edu
-------------------	--	-----------------------------