



**American College  
of Radiology™**



# Advancing Your Lung Cancer Screening Program with Lung-RADS® and the Lung Cancer Screening Registry

**How Does Your Lung Cancer Screening Program Measure Up?**

August 9, 2023

# Speakers and Panelists



## **Ella Kazerooni, MD, MS, FACR**

NRDR Steering Committee Chair, ACR  
Professor of Radiology and Internal Medicine, University of Michigan



## **Shawn Teague, MD, FACR**

LCSR Quality Improvement and Education Subcommittee Chair, ACR  
Associate Professor of Radiology, National Jewish Health/University of Colorado



## **Dhiraj Baruah, MD**

Professor of Radiology and Imaging Services, Director of Thoracic Imaging, Vice Chair of Quality and Safety, Medical University of South Carolina

# Speakers and Panelists



**Jonathan H. Chung, MD**

Professor of Radiology, Vice Chair of Quality and Section Chief of  
Cardiopulmonary Imaging, University of Chicago Medicine



**Jody R. Steinhardt, MPH, CHES**

Assistant Director of Lung Cancer Screening, NYC Health +  
Hospitals



**Charles S. White, MD**

LCSR Committee Chair, ACR  
Professor of Diagnostic Radiology and Nuclear Medicine, University  
of Maryland

# Speakers



## **Mike Simanowith**

Director of Registries, ACR

## **Tom Fruscello**

Quality Programs Consultant, ACR

## **Lisa Gunderman**

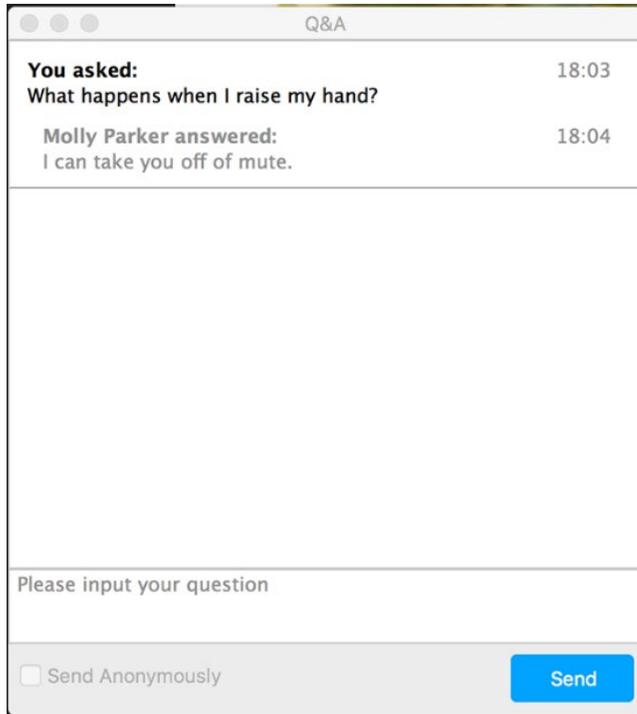
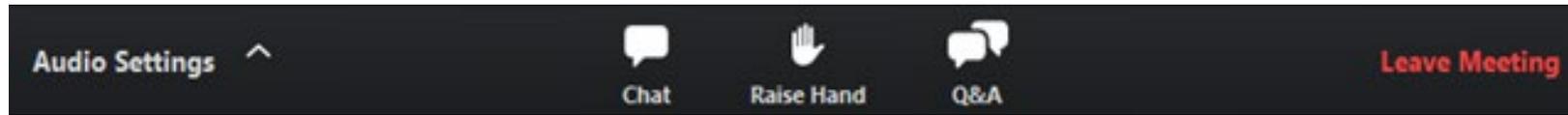
Education Specialist, ACR

# Disclosures



- None

# Attendee Zoom Interface



Type a comment/question in Q&A (only seen by organizers)

Type a comment in the chat (only seen by organizers)

Questions and comments can be entered in the Q&A field



# Advancing Your Lung Cancer Screening Program Webinar Series



This webinar is second in a series that will continue through August 2023:

- July 26 | ACR Lung-RADS® v2022: An Update on Lung Cancer Screening Reporting and Management
  - View the recording at <https://nrdrsupport.acr.org/support/solutions/articles/11000114747-advance-your-lung-cancer-screening-program-webinar-series>
- Aug. 9 | How Does Your Lung Cancer Screening Program Measure Up?
- Aug. 23, 12-1pm ET | An Approach to Structured Performance Improvement Using Your Lung Cancer Screening Registry Data
- This webinar will be recorded and distributed afterwards.



# Webinar Agenda

1. LCSR Overview
2. New LCSR Interface
3. Clinical Lead User Role
4. New and Existing LCSR Measures
  - a. Adherence to Screening
  - b. Appropriate Radiation Dose
  - c. Increasing Smoking Cessation
5. Updates to the Facility Comparisons Report dashboards
6. Facility Comparisons Report Training Videos
7. LCS Locator Tool
8. Opportunities for Engagement
9. Q&A
10. Wrap-up
  - a. CME credit claiming instructions

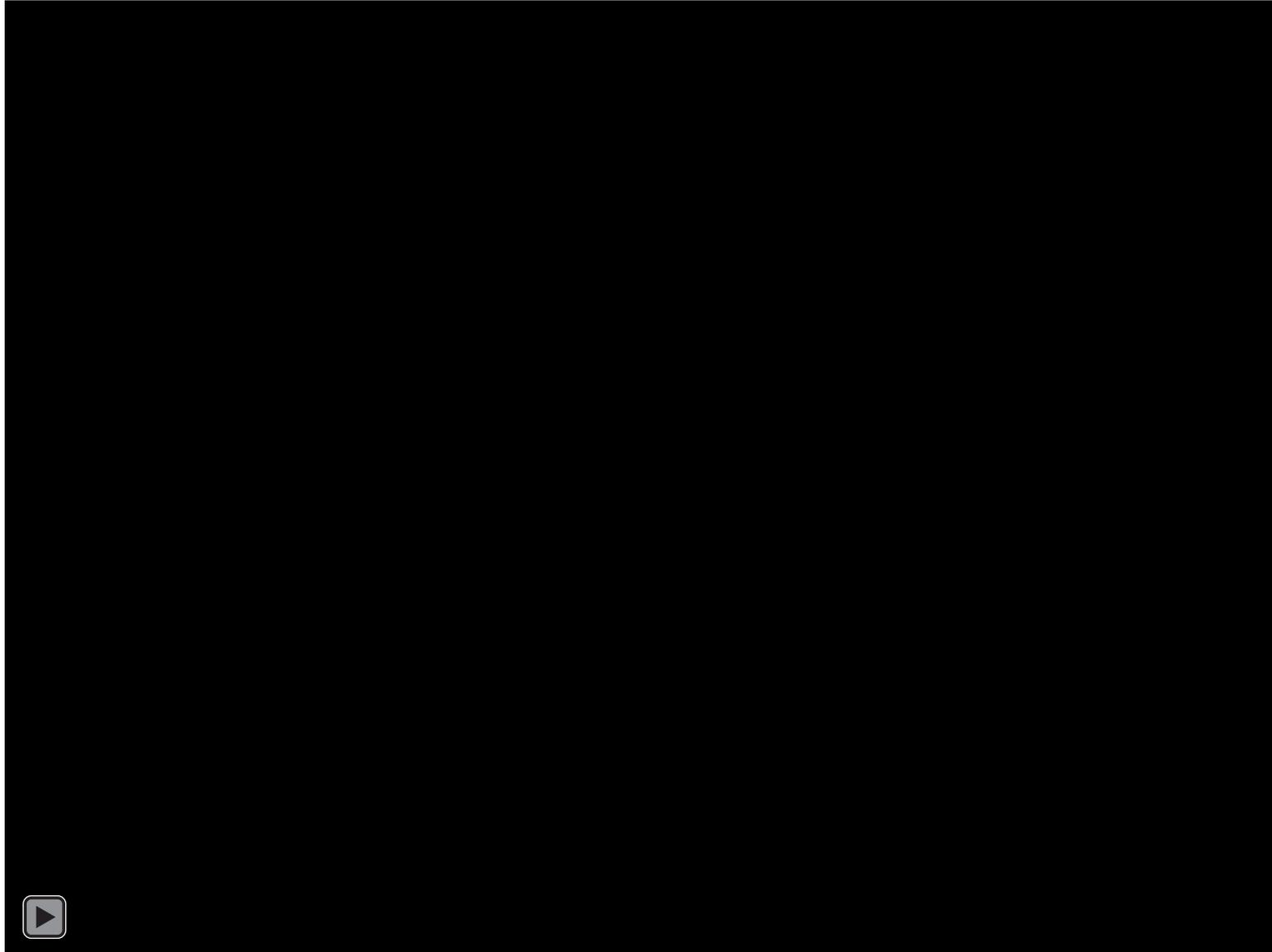
# Lung Cancer Screening Registry Overview



## Purpose

- Help clinicians monitor and demonstrate the quality of CT lung cancer screening in their practice through periodic reports which include peer and registry benchmarks
  - Advance lung cancer screening practice
  - Target specific areas for improvement
  - Implement performance improvement programs
  - Improve and refine lung cancer screening care nationally

# New LCSR Interface





# Clinical Lead User Role



- Clinical Lead profile may be assigned to NRDR users for one or more registries
- Designed to encourage engagement in the registry by radiologists and clinical leaders at the facility level
- Enables NRDR staff to keep key personnel up to date about changes of clinical relevance related to the registry
  - Registry-specific webinar announcements
  - Communications about new measures and reports
  - New materials supporting quality improvement
- Able to access aggregate reports but cannot view clinical exam-level data
  - LCSR Quarterly Aggregate Report
  - LCSR Facilities Comparison Report (excluding Adherence and PI Analysis tabs)

NRDR Accounts and Profiles: <https://nrdrsupport.acr.org/support/solutions/articles/11000029005-nrdr-accounts-and-profiles>

# Clinical Lead User Role



## 1. How to add a Clinical Lead User

ACR NRDR Homepage
New Corporate Account Registration
Corporate Account Management Financial
Corporate Account Management Operational
Facility Management
Documents
Facility Information
Manage Patients
Manage User Accounts
<b>Manage User Profiles</b>

## 2.

### Manage User Profiles

In order to change user account information such as first name, last name, email address or link user accounts, please use [Manage User Accounts](#) form.

Filter

Users found: 102

ACRID	User Name	Creation Date	First Name	Last Name	Super Corporate ID	Corporate ID	Facility ID	User Type	Registries	Email	Phone	Status	Activated	Action
	Tester@acr.org	03/17/2016	Tester	Tester				Facility Administrator		Tester@acr.org	7036483789	Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		08/18/2018						Registry Administrator	3D Printing, DIR, GRID, LCSR, MIPS, NMD			Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		09/05/2017						Registry Administrator	DIR			Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		11/15/2016						Registry Administrator	3D Printing, CTC, DIR, GRID, LCSR, MIPS, NMD			Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		09/08/2016						Registry Administrator	3D Printing, DIR			Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		02/23/2017						Registry Administrator	CTC, DIR, GRID, LCSR, MIPS, NMD			Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		02/22/2017						Registry Administrator	DIR			Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		08/01/2013						Registry Administrator	3D Printing, DIR, GRID, LCSR, MIPS, NMD			Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		01/24/2013						Registry Administrator				Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>
		06/25/2014						Registry Administrator	DIR, GRID, LCSR, MIPS			Active	Yes	<a href="#">Edit</a>   <a href="#">History</a>

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**Add New User** | View History

User Account	tfruscello10
Status	Active
User Type	Facility User
First Name	T
Last Name	Tester IV
Facility ID	114155 - Test Facility 1
E-mail	
Office phone	
Registries	<input checked="" type="checkbox"/> NRDR <input checked="" type="checkbox"/> CTC <input type="checkbox"/> IR <input type="checkbox"/> LCSR <input checked="" type="checkbox"/> MIPS <input type="checkbox"/> NMD

## 3.

Manage User Profiles:  
<https://nrdrsupport.acr.org/support/solutions/articles/11000032092>

# Adherence to Screening

## Goals

- Ensure eligible patients are screened for lung cancer and screening meets USPSTF 2021 recommendations
- Increase the number of patients who return for annual screening (11 to 15 months) when previous exam was Lung-RADS 1 or 2 and
- Increase the number of patients who return for recommended follow up for Lung-RADS 3 (4-8 months) and 4a (0-18 weeks)

## Rationale

- Improving adherence will identify lung cancer at an earlier stage and improve outcomes
  - Mortality benefit associated with LCS requires high adherence to follow-up
  - Nearly 60% of lung cancers in the NLST intervention group were detected after the 2nd and 3rd rounds of screening
  - Adherence rate is lower in clinical practice with a meta-analysis showing 55% adherence with rates varying between 12% and 91%



# Adherence to Screening LCSR Measures

## Existing

- Appropriateness of screening by USPSTF 2021 criteria

## New in 2022-2023

- Adherence to annual screening
- First-time screening
- Adherence to recommended follow up
  - Coming later in August 2023

## Reports

- Included in both the interactive LCSR Facility Comparisons Report and the Quarterly Aggregate Report.



# Adherence to Screening LCSR Measures

## Adherence to 6-month Interim Assessment

- Percentage of patients with a chest CT 4-8 months after a previous screening with Lung-RADS 3

## Adherence to 3-month Interim Assessment

- Percentage of patients with a chest CT 6-18 weeks OR a diagnostic PET/CT 0-18 weeks after a previous screening with Lung-RADS 4a

# Appropriate Radiation Dose

## Goals

- Promote the most appropriate radiation dose for lung cancer screening exams
- Encourage the As Low As Reasonably Achievable (ALARA) principle

## Rationale

- Patients may begin screening as young as age 50 and may continue to be screened through 80 years of age annually according to the latest USPSTF guidelines
- Additionally, patients may undergo additional CTs for screen-detected abnormalities between annual screens



# Appropriate Radiation Dose LCSR Measures

## Radiation exposure, Mean CTDIvol – overall (mGy)

- Underweight
- Healthy weight
- Overweight
- Obese

# Increasing Smoking Cessation

## Goal

- Increase the number of former smokers enrolled in an LCS program
- Ensure effective smoking cessation counseling is offered to current and recently former smokers

## Rationale

- Cigarette smoking is the number one risk factor for lung cancer. It causes about 90% of lung cancer cases. Smoking cessation is key to decreasing lung cancer risk
- The prevalence of smoking among individuals presenting for annual LCS is higher than among those in the community with 48–70% of those undergoing LCS actively smoking
- Cessation rates after LCS alone range from 16-42%; therefore, LCS is a prime opportunity for intervention and counseling amplifies the benefit of LCS
- Images of patient's smoking-related lung disease and radiology reports are potential tools to encourage patients to consider smoking cessation and present a unique opportunity for radiologists to facilitate patient-centered care

# Increasing Smoking Cessation LCSR Measures



## Measure

Smoking cessation offered

Smoking cessation offered among current smokers

Non-smoking rate

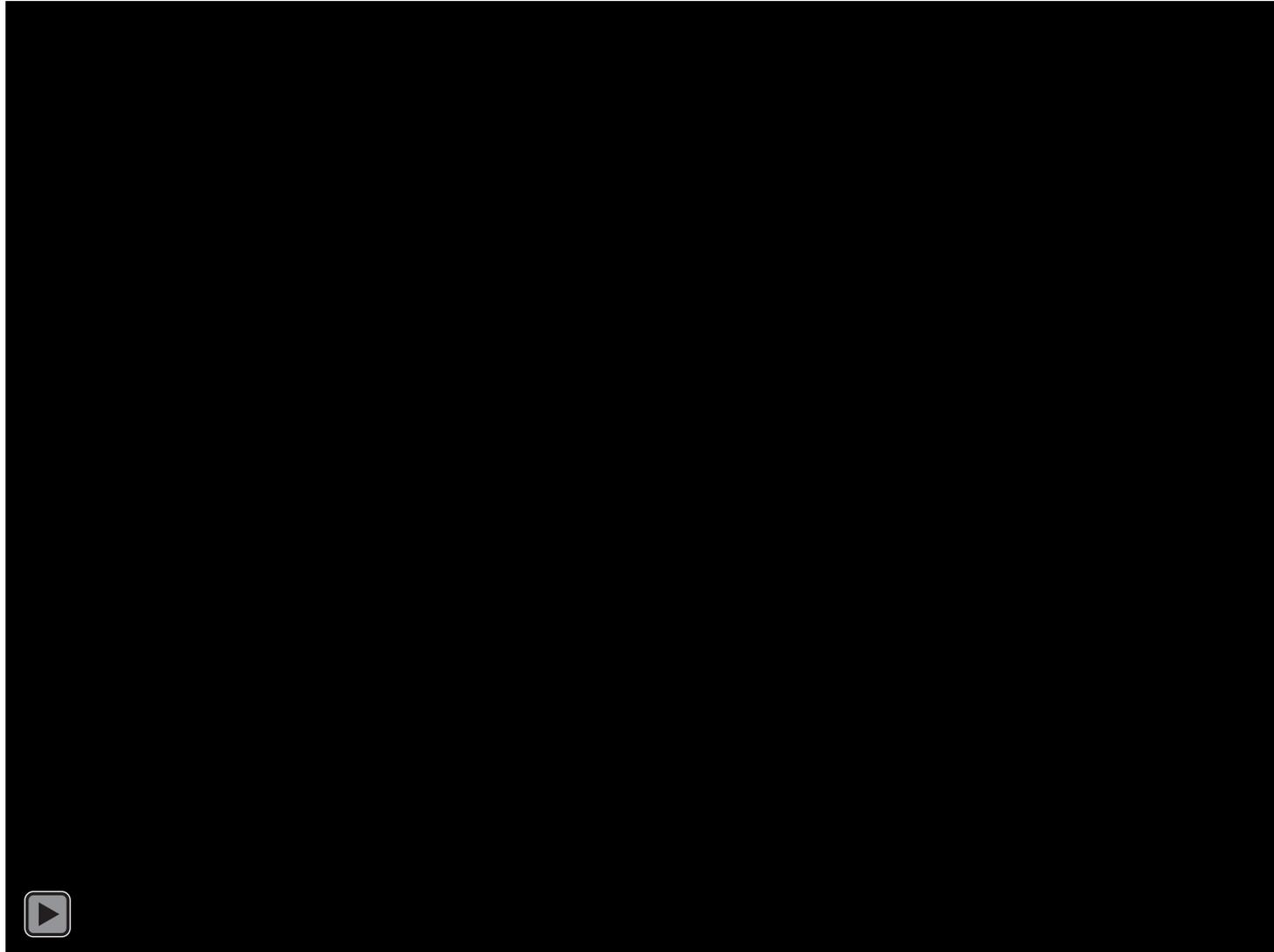
## Description

Percentage of screening exams where patients are offered smoking cessation guidance.

Percentage of screening exams done on **Current Smokers** where smoking cessation guidance was offered.

Percentage of patients reporting as **Former Smoker** out of all patients reporting as Current Smoker, Former Smoker, or Smoker, Current Status Unknown.

# Facility Comparisons Report Training Videos





# Lung Cancer Screening Locator Tool



ACR's [LCS Facility Locator Tool](#) helps people across the country find LCS centers in their area

- Please review your Facility Information form in the NRDR portal to confirm it is correct and complete
- You must check off the box in front of the instruction “Please include my facility in the list on the website of registered NRDR facilities” to provide permission for the ACR to include your facility in the Locator Tool

\* City: Reston

\* Country: United States of America

\* State or Province: Virginia

\* ZIP or Postal Code: 20191 ✔ Address Verified

\* Phone: 7036597191

Fax: 703-648-8888

Facility NPI: 00000000

NMD-Certified Vendor: Other

\* NMD-Certified Vendor Other: Test

Please include my facility in the list on the website of registered NRDR facilities



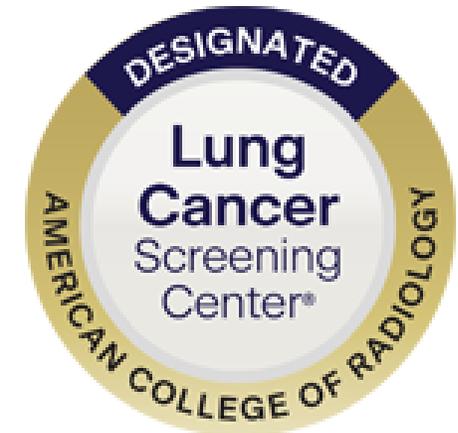
# ACR Designated Lung Cancer Screening Center

ACR Lung Cancer Screening Center designation is a valuable tool for maintaining excellence in everything from operations to patient care. ACR accreditation helps assure your patients that you provide the highest level of image quality and safety. Our process documents that your facility meets requirements for equipment, medical personnel and quality assurance.

Eligibility requirements:

- Achieve ACR CT accreditation in the chest module
- Confirm that your medical imaging staff has the appropriate experience and qualifications
- Confirm that your screening protocol meets minimum technical specifications
- Participate in the ACR Lung Cancer Screening Registry

Apply at: <https://www.acraccreditation.org/centers-of-excellence/lung-cancer-screening-center>



# National Lung Cancer Screening Day



Second annual National Lung Cancer Screening Day (“National LCS Day”) is on **Saturday, November 11, 2023**

What is National LCS Day?

- American Cancer Society National Lung Cancer Roundtable (NLCRT), ACR, Radiology Health Equity Coalition, and Veterans Administration partnership
- Asks facilities to open their doors the second Saturday in November to allow individuals to access LDCT lung screening without having to take a day off work, increasing the accessibility of screening overall.
- Serves to increase the profile of early detection of lung cancer to those in the community who might be unaware of the option
- Acts as a catalyst to make lung screening a year-round priority

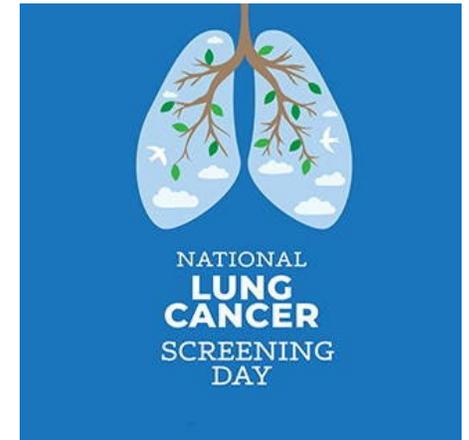


# National Lung Cancer Screening Day



Help us promote LCS Day:

- Sign up to participate (<https://bit.ly/3ozryBJ>)
  - Receive access to a repository of resources, including instructions for how to open on a Saturday, patient flyers, and Marketing and Communications Toolkit
- Use the official National LCS Day hashtag, #LCSDay2023, on social media
- Ask your network to share this opportunity as well



Lung cancer claims the lives of 127,000+ Americans every year. Only a small percentage of individuals get recommended screening tests. Spread the word about National Lung Cancer Screening Day on November 11! #LCSDay2023 #LCSM #LungCancer <https://bit.ly/3ozryBJ>

@NLCRTNews @ACR and @RadHealthEqty have partnered with the VA this Veteran's Day to promote National LCS Day 2023, a day for facilities to open their doors on Saturday for patients to be screened. Find more information and sign up today at <https://bit.ly/3ozryBJ> #LCSDay2023 #LCAM

This World Lung Cancer Day, join @NLCRTNews @ACR and @RadHealthEqty in signing up for National LCS Day 2023. The second Saturday in November, facilities will open for lung screening to increase health equity and screening access. Sign up at <https://bit.ly/3ozryB> #LCSDay2023



# LCSR Performance Improvement Project



Volunteer to be an early adopter and receive:

- Guidance to gain the most benefit from your reports
- Opportunity to provide direct user feedback
- Registry discount
- Performance Improvement CME
- Case study publication opportunities
- Q&S conference presentation opportunity



Complete the interest form to get started

# Q&A



## Next Webinar



Join the ACR and STR for the final part of this Advancing Your Lung Cancer Screening Program series:

**Aug. 23, 12-1pm ET | An Approach to Structured Performance Improvement Using Your Lung Cancer Screening Registry Data**

Share with your colleagues: <https://pages.acr.org/LCSR-Webinar-Series.html>



WHEN YOU GET TO THE  
END OF YOUR ROPE

- **Email:** [NRDRSupport@acr.org](mailto:NRDRSupport@acr.org)
- **Phone:** 1-800-227-5463 x3535
- **Web:** <https://nrdrsupport.acr.org>

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Those wanting to claim credit must submit a [request for CME form](#). Please do not submit more than once.

CME Credit claiming instructions will be sent to you via email from [alacount@acr.org](mailto:alacount@acr.org) within 5-7 business days of form submission. Please click on the link and follow the instructions in the email to claim your credit, complete the activity evaluation, and receive your certificate. All evaluations and credit claiming requests must be completed no later than **11:59 EDT, November 1, 2023**.

For questions regarding the credit claiming of this activity, please contact us at [nrdr@acr.org](mailto:nrd@acr.org).



**Focus. Forward. Together.™**