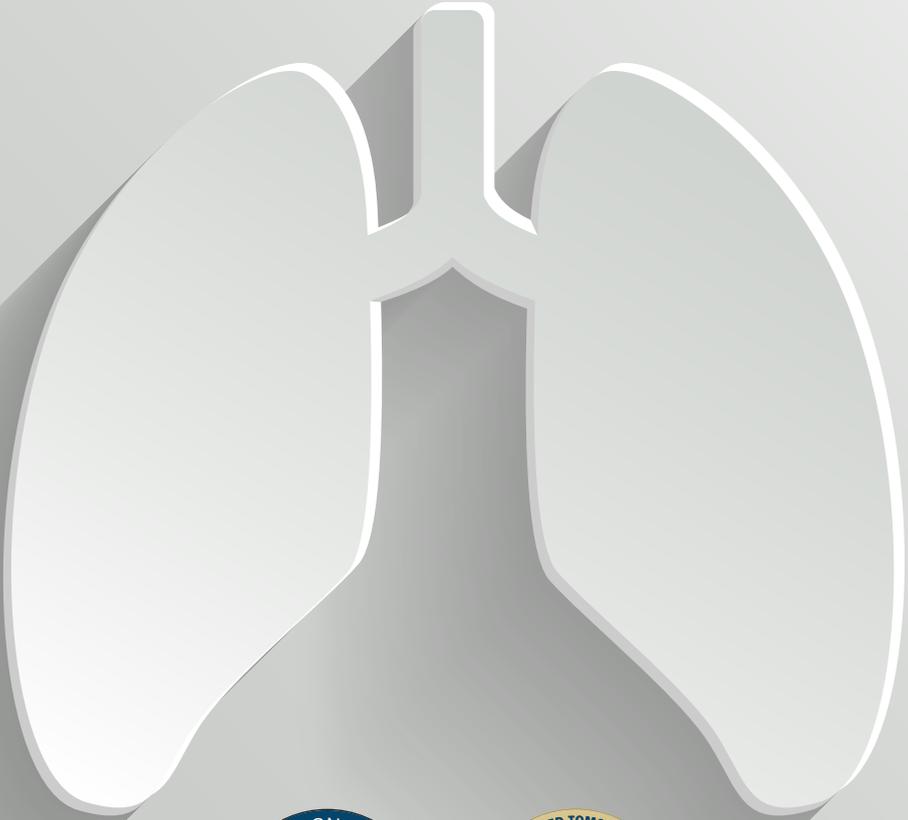


[acr.org/lungresources](http://acr.org/lungresources)

# ACR LUNG CANCER SCREENING RESOURCES



NRDR  
**LCSR**<sup>®</sup>  
LUNG CANCER SCREENING  
REGISTRY  
AMERICAN COLLEGE OF RADIOLOGY

Lung Cancer Screening  
*e*ducation  
From Science to Practice

NRDR  
**DIR**<sup>®</sup>  
DOSE INDEX  
REGISTRY  
AMERICAN COLLEGE OF RADIOLOGY

The US Preventative Services Task Force and the American College of Radiology® (ACR®) recommend that current and former heavy smokers, ages 55–80, get a yearly CT scan of the lungs. Private insurance covers these screening exams up to age 80 and Medicare covers up to age 77.

According to the American College of Radiology Imaging Network (ACRIN®) National Lung Screening Study, low-dose CT lung cancer screening in older current and former smokers can reduce lung cancer deaths by 20%.

To help our members build effective and sustainable lung cancer screening programs, the ACR offers a suite of lung cancer screening resources to facilitate the diagnosis of lung cancer and help ensure quality care.

Stay informed about ACR lung cancer screening initiatives at **[acr.org/lungresources](https://www.acr.org/lungresources)**.

NOW FREE  
TO ACCESS!

# Lung Cancer Screening Education

*From Science to Practice*

Co-sponsored by



## ACR Lung Cancer Screening Education

Learn to implement a comprehensive, multidisciplinary lung cancer screening program in your practice through this CME-certified, interactive, online activity.

Using state-of-the-art eLearning tools and technology, this engaging program teaches you shared decision making using a patient-centered approach, how to implement screening guidelines into clinical practice, and how to recognize characteristics of suspicious and/or benign nodules.

Learn to:

- Demonstrate understanding of acquisition parameters for low-dose chest CT screening.
- Identify features of a successful lung cancer screening program.
- Identify and accurately measure lung nodules.
- Recognize nodule characteristics suggestive of benignity or lung cancer.
- Understand indeterminate nodules and their management.
- Identify and report significant other findings.
- Develop structured reporting for lung cancer screening.

**Start today at [acr.org/lcseeducation](https://acr.org/lcseeducation)**

### Accreditation Statement

The American College of Radiology is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

### Credit Designation Statement

The American College of Radiology designates this enduring material activity for a maximum of 15 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Credits awarded for this enduring activity are designated "SA-CME" by the American Board of Radiology (ABR) and qualify toward fulfilling requirements for Maintenance of Certification (MOC) Part II: Lifelong Learning and Self-assessment.



## ACR Designated Lung Cancer Screening Center

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**Distinguish your medical imaging to providers, payers and patients**

Now is the time for your team to earn its place among ACR Designated Lung Cancer Screening Centers.

Apply with the ACR Quality and Safety team and, for a minimal cost and investment of time, you can earn this status — putting your lung cancer screening facility above the rest.

As an ACR Designated Lung Cancer Screening Center™, you will be notable as a provider of safe, effective diagnostic care for those considered at high risk for lung cancer (aged 55 to 77 with 30-pack years).

To be eligible, your facility must be ACR-Accredited for computed tomography in the chest module and participate in the ACR Lung Cancer Screening Registry.

### **Apply to enjoy these benefits:**

- Assessment of your lung cancer screening protocol and infrastructure.
- Comprehensive final report presenting evaluation results, areas for improvement and recommendations for action.
- Identification as a Designated Lung Cancer Screening Center on the national ACR Accredited Facility Search Database.
- Minimal time and expense investment for optimal recognition.
- Approval to use the ACR seal, demonstrating to payers, patients and administrators that your facility is an ACR Designated Lung Cancer Screening Center.
- Marketing toolkit to distinguish your medical imaging to providers, payers and patients.

**For additional benefits and requirements,  
[acr.org/lungcancerscreening](http://acr.org/lungcancerscreening) or call 1-800-770-0145**



## ACR Computed Tomography Accreditation

### The Gold Standard

When you display the ACR gold seal, your colleagues and patients will have complete confidence that your facility meets the highest quality and safety standards in medical imaging.

#### Why choose the ACR for CT accreditation?

- Total electronic application and image submission.
- Fast 30- to 60-day review cycle.
- Step-by-step guidance by expert staff technologists.
- Trusted process designed by and for medical imaging experts.
- It's the right thing to do for your patients.

For more information, visit [acr.org/ctaccred](http://acr.org/ctaccred)





## ACR Lung Cancer Screening Registry

Meet quality reporting requirements for Medicare CT lung cancer screening payment with the CMS-approved ACR Lung Cancer Screening Registry (LCSR).

LCSR collects data on patients, physicians and outcomes of screening, using a registry structure based on Lung-RADS<sup>®</sup>. Data elements and additional participation information are available online at [acr.org/lcsr](https://acr.org/lcsr).

### Benefits of LCSR:

- Monitor the quality of CT lung cancer screening in your practice through periodic feedback reports, including new online, interactive reports.
- Compile quality information to help improve and refine lung cancer screening care at the national level.
- Meet Medicare reporting requirements to receive Medicare CT lung cancer screening payment.

“ “ The ACR registry compiles quality information to help improve and refine lung cancer screening care at the national level. ” ”

– Debra S. Dyer, MD, FACR, Chair,  
ACR Lung Cancer Screening 2.0 Steering Committee

# ACR Lung CT Screening Reporting and Data System — Lung-RADS

The ACR Lung CT Screening Reporting and Data System (Lung-RADS®) is a quality assurance tool designed to standardize lung cancer screening CT reporting and management recommendations, reduce confusion in lung cancer screening CT interpretations, and facilitate outcome monitoring.

## Coming soon to Lung-RADS:

- Lexicon of lung cancer screening CT terms and reporting format.
- Atlas describing the medical audit and outcome monitoring process.

The consistent use of assessment categories through Lung-RADS will help clinicians understand the disposition of their patients and aid in auditing lung cancer screening CT practices and programs. Knowing how we perform helps to identify deficiencies, facilitate research and avoid adverse medicolegal consequences.

## For more information, visit [acr.org/lungrads](http://acr.org/lungrads)

**Lung-RADS® Version 1.1 Assessment Categories**

Category	Category Description	Lung-RADS Score	Management
Incomplete	–	0	Additional lung cancer screening CT images and/or comparison to prior chest CT examinations is needed
Negative	No nodules and definitely benign nodules	1	Continue annual screening with LDCT in 12 months
Benign Appearance or Behavior	Nodules with a very low likelihood of becoming a clinically active cancer due to size or lack of growth	2	
Probably Benign	Probably benign finding(s) — short-term follow-up suggested; includes nodules with a low likelihood of becoming a clinically active cancer	3	6-month LDCT
Suspicious	Findings for which additional diagnostic testing is recommended	4A	3-month LDCT; PET/CT may be used when there is a $\geq 8$ mm ( $\geq 268$ mm <sup>3</sup> ) solid component
Very Suspicious	Findings for which additional diagnostic testing and/or tissue sampling is recommended	4B	Chest CT with or without contrast, PET/CT and/or tissue sampling depending on the *probability of malignancy and comorbidities. PET/CT may be used when there is a $\geq 8$ mm ( $\geq 268$ mm <sup>3</sup> ) solid component. For new large nodules that develop on an annual repeat screening CT, a 1-month LDCT may be recommended to address potentially infectious or inflammatory conditions
		4X	
Other	Clinically Significant or Potentially Clinically Significant Findings (non-lung cancer)	5	Add to 0–4 category as appropriate to the specific finding



## ACR Dose Index Registry

The ACR Dose Index Registry (DIR) allows facilities to compare CT dose indices to regional and national values through periodic feedback reports that compare results by body part and exam type to aggregate results. This data is also used to establish national benchmarks for CT dose indices.

**DIR has more than 3,000 registered facilities and data on nearly 110 million exams.**

### Benefits of DIR:

- Size-specific dose index measures for fair and meaningful comparison.
- Quarterly DIR reports to support protocol review.
- Identification of protocols that may need analysis or modification.
- On-demand detailed, interactive facility reports to identify trends and outliers.
- Satisfies The Joint Commission requirements for radiation dose monitoring.
- Use for MIPS reporting requirements and ABR MOC Part IV Credit.

### DIR-certified software partners

An alternative to sending data directly from the scanner or PACS is to use a DIR-certified software partner.

For a current list of certified partners and to learn more about DIR, visit [acr.org/dir](https://www.acr.org/dir).

# ACR CT Quality Control Manual

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The ACR CT Quality Control Manual is a digital reference developed by the ACR Committee on CT Accreditation to help you establish and maintain a quality control program for CT. This manual is PDF-optimized for your mobile device.

Quality control is a team effort. In this manual, you'll learn how:

- To share the responsibility for quality control with radiologists, radiologic technologists and medical physicists to help ensure patient safety for CT.
- Routine quality control can safeguard equipment so it operates appropriately.
- Dose is optimized for the necessary image quality.

Each section incorporates best practices and includes step-by-step instructions for daily, weekly, monthly and yearly quality control tests. Based on test results, the manual provides suggestions for corrective action.

**To access the manual and download to your desktop or device, visit [acr.org/lungresources](http://acr.org/lungresources).**



# ACR Practice Parameters & Technical Standards and Appropriateness Criteria

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To help you provide safe and effective lung CT exams, the ACR offers ACR Appropriateness Criteria® on lung cancer screening and joins with the Society of Thoracic Radiology to provide CT lung cancer screening practice parameters.

**Visit [acr.org/lungresources](https://www.acr.org/lungresources) for links to the following:**

- ACR-STR Practice Parameter for the Performance and Reporting of Lung Cancer Screening Thoracic Computed Tomography (CT)\*.
- ACR Appropriateness Criteria — Lung Cancer Screening.

The **ACR Appropriateness Criteria — Lung Cancer Screening** document is an appropriate use criterion from the ACR, a CMS-qualified provider-led entity, and meets the PAMA requirement for consulting imaging prior to ordering advanced diagnostic imaging.

\* These practice parameters are based on analysis of current literature, expert opinion, open forum commentary, and formal consensus, and describe recommended conduct in specific areas of clinical practice. They are not intended to be legal standards of care or conduct and may be modified as determined by individual circumstances and available resources.



## Patient Information & Screening Research

ACR lung cancer screening resources offer information for patients from organizations such as the National Cancer Institute, American Cancer Society and the American Lung Association. Visit [acr.org/lungresources](https://www.acr.org/lungresources) to find these resources to share with patients:

### CT Lung Cancer Screening

- RadiologyInfo.org — Lung Cancer Screening.
- National Cancer Institute — SEER Stat Fact Sheet: Lung and Bronchus Cancer.
- National Comprehensive Cancer Network (NCCN) Guidelines for Patients.

### Smoking Cessation

- American Cancer Society — *Guide to Quitting Smoking*.
- American Lung Association — *How to Quit Smoking*.

### Lung Cancer Advocates

- GO<sub>2</sub> Foundation for Lung Cancer.
- National Lung Cancer Roundtable.
- American Lung Association.

### Screening Decision Aid (with risk calculator)

- Decision Aid Tool.

### Lung Cancer Screening Research

- Links to a variety of articles, studies, projects and programs on lung cancer screening research.



### Q&A Support

Do you have questions about lung cancer screening implementation? Our experts are ready to help. Scan this QR code to submit your questions easily with your smartphone or visit [acr.org/lungresources](https://www.acr.org/lungresources).



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[acr.org](https://www.acr.org)