

NEVADA LUNG CANCER SCREENING TOOLKIT



Nevada Lung Cancer Collaborative, November 2023

A MESSAGE FROM OUR CO-CHAIR

Are you ordering low-dose CT (LDCT) to screen your patients for lung cancer? I am writing to you because we are trying to save lives from lung cancer in Nevada and we need your help to do this!

Every year, lung cancer kills more people than breast cancer, prostate cancer, and colon cancer combined. Screening high-risk patients for lung cancer with annual LDCT can reduce lung cancer mortality by up to 20% by finding cancers at earlier stages when they are more likely to be cured.

Lung cancer is very deadly because it is often found too late: only 10% of patients have a 5year survival rate when diagnosed at a later stage. However, when diagnosed at an early stage, lung cancer is more responsive to treatments and patients have significantly improved prognoses with 5-year survival rates of up to 90%. Lung cancer screening improves survival through earlier detection.

LDCT has had such a significant impact in reducing lung cancer deaths that in March 2021 the USPSTF expanded its recommendations so that more high-risk patients were eligible for this important screening tool.

Now, people ages 50-80 with a 20 or more pack-year smoking history (who currently smoke or have quit smoking in the past 15 years) are eligible for LDCT to be covered by their insurance company without a co-pay.

According to the 2022 Behavioral Risk Factor Surveillance System, Nevada is among the states with the lowest lung cancer screening rates with only 7.4% of high-risk people getting lung cancer screening. This is significantly below the national median of 9.9%. We need your help to fix this!

To help save lives from lung cancer, we encourage you to implement an LDCT lung cancer screening policy for your patients. In this provider packet, we have included HCPCS and ICD-10 codes that work with insurance company billing to help avoid denials and ensure coverage for your patients. Also included is a one-page billing summary to help navigate the nuances of private, Medicare, and Medicaid billing options. We also provided information to include when making a referral for LDCT to ensure that the shared decision-making requirement is met.

We encourage you to reach out to your partners at the Nevada Cancer Coalition for help in creating or growing an LDCT program in your practice. Please contact us if you encounter any issues with your program; we are here to help. Email us at <u>info@nevadacancercoalition.org</u>.

Thank you for your time and consideration. With your help we will save lives from lung cancer in Nevada!

Sincerely, Chivonne Harrigal, M.D. Co-chair, Nevada Cancer Coalition Lung Cancer Collaborative

INTRODUCTION

This toolkit is designed to assist health systems in building, maintaining, and increasing patient uptake of a lung cancer screening program using low dose computed tomography (LDCT) as recommended by the United States Preventive Services Task Force (USPSTF).

The contents of the toolkit were developed and sourced by Nevada Cancer Coalition, Chivonne Harrigal, M.D., and Diane Klassen.

Special thanks to the members of the Nevada Cancer Coalition Lung Cancer Collaborative who contributed to this toolkit's development:

- Jamie Studts, Ph.D
- Kim Dupuis
- Vishisht Mehta, M.D.
- Vicki Thornhill
- Deborah Anderson
- Lisa Gardner
- Lynette Phillips, MPA
- Michelle Futrell, RN
- Kori Pitt, MPH

- Greg Hung M.D.
- Mike Wofford
- Amber Hise, RD
- Kim Parham
- Carol Fier
- Veena Nowakowski
- Shannon Proctor, MPA
- Debra Kawcak

Toolkit Development

Content contained in this toolkit is the culmination of published and publicly available information on lung cancer screening programs. Additionally, experiences from real-world lung cancer screening implementation experts and researchers have been incorporated where possible. Attachments include promotional brochures, clinic resources, billing resources, and sample follow-up letters.

Audience

A LDCT lung screening program is a comprehensive effort necessitating the collaboration of the full medical team. This toolkit was designed for a variety of health care professionals including, but not limited to:

- Practice planners and administrators in primary care and community health settings.
- Practice planners and administrators at radiology and imaging centers.
- Medical billing specialists.
- Physicians, non-physician providers, and auxiliary personnel.
- Lung cancer screening champions.

THE CASE FOR SCREENING

OBJECTIVE: Understand the need, evidence, requirements, processes, risks, benefits, cost, and outcomes of lung cancer screening to consider the need for a LDCT screening program in your healthcare system or clinic.

Lung Cancer Overview

Lung cancer is the leading cause of cancer death for all genders in the United States and in Nevada, killing more people than breast, colon, and prostate cancers combined. There are two main types of lung cancer, small cell (SCLC), and nonsmall cell (NSCLC).

The lifetime risk of developing lung cancer is approximately 6.2% among men and 5.8% among women, or 1 in 16 men and 1 in 17 women during their lifetime. However, these probabilities are based on lung cancer occurrence in the general population; the risk is substantially higher for those who have a history of smoking. The risk of lung cancer also increases with age, partly because the disease grows for many decades before symptoms develop. More than half (53%) of lung cancer cases are diagnosed in those age 70 or older, and 83% of cases are diagnosed in those ages 65 and older. Lung Cancer incidence among Black men peaks about five years earlier than among white men for both NSCLC and SCLC. The risk of lung cancer is also greater in persons who have lower socioeconomic status (SES).¹ These differences between sex, SES, and race may be tied to onset and severity of smoking behaviors within these communities.

Before guidelines were established for routine for lung cancer screening via LDCT, lung cancer was usually diagnosed at later stages. Five-year survival of advanced lung cancer is less than 10%, with five-year survival of early-stage lung cancer exceeding 55%. However, currently only 17% of patients are diagnosed with early-stage disease. Early detection via screening is critical to reducing lung cancer specific mortality and increasing the percentage of lung cancers diagnosed in early stages. Lung cancer screening with LDCT is the only recommended test that finds lung cancer at an early stage when curative treatment options exist.

¹ American Cancer Society, Cancer Facts and Figures 2023. Special Section: Lung Cancer. <u>Cancer</u> <u>Facts & Figures 2023</u>

Evidence for Lung Cancer Screening

Lung cancer specific mortality reduction: The Final Evidence Review published by the USPSTF reported more early stage lung cancers (stage I-II) were found across LDCT screening groups than in control groups. The full report concludes screening high-risk persons with LDCT can reduce lung cancer mortality and may reduce all-cause mortality.² High rates of stage I lung cancer have also been reported outside of clinical trial settings; community healthcare systems and clinics have also reported increased stage I diagnosis rates.

Initial low uptake of lung cancer screening: As a new cancer screening modality, initial uptake of lung cancer screening has been low.³ In Nevada, the rate of those eligible individuals who did have an LDCT chest scan in the last year increased in 2022 to 7.4%.⁴ While low uptake can be linked to barriers at the patient, provider, and system level, there is a general lack of awareness about lung cancer screening in the medical and lay communities.⁵ Continued education about screening is vital so that LDCT screening for lung cancer will become as commonly known as mammography and colonoscopy for breast and colon cancer screenings.

Lung cancer screening disparities: Individuals who smoke tobacco, and are also potentially eligible for lung cancer screening, are likely to already face health disparities. Higher tobacco use is recorded among racial and ethnic minorities, sexual and gender minorities, and individuals with low-socioeconomic status or who live in rural areas. Several factors connect commercial tobacco with higher levels of disease, disability, and death within these communities, including the tobacco industry's use of tailored marketing and advertising targeting these groups and barriers to health care and treatment for tobacco use and dependence. For some individuals, the pressures of discrimination, poverty, and other social conditions may lead to commercial tobacco use as a coping mechanism.⁶ Anyone working within an LDCT program can help reduce these disparities by thinking how best to reach these populations and educate them about screening without attaching the stigma of tobacco use.

² Screening for Lung Cancer with Low-Dose Computed Tomography: An Evidence Review of the U.S. Preventive Services Task Force. 2021 March. <u>Screening for Lung Cancer With Low-Dose Computed Tomography: An Evidence Review for the U.S. Preventive Services Task Force - NCBI Bookshelf (nih.gov)</u>

³ American Cancer Society, Cancer Facts and Figures 2023. Special Section: Lung Cancer. <u>Cancer</u> <u>Facts & Figures 2023</u>

⁴ Behavioral Risk Factor Surveillance System, Respondents aged 50-80 who are current and former smokers who have had a CAT/CT scan in the last year (2022)

⁵ Carter-Harris L, Gould MK. Multilevel Barriers to the Successful Implementation of Lung Cancer Screening: Why Does It Have to Be So Hard? Ann Am Thoracic Soc. 2017 Aug;14(8):1261-1265. doi: 10.1513/AnnalsATS.201703-204PS.

⁶ Centers for Disease Control and Prevention. Health Disparities Related to Commercial Tobacco and Advancing Health Equity. Available at: <u>Tobacco-Related Disparities | CDC</u>

OVERVIEW OF A LUNG CANCER SCREENING PROGRAM

The goal of lung cancer screening is to find and diagnose early-stage disease before signs and symptoms occur. However, because the eligibility for LDCT includes criteria based on a lifestyle choice, there are elements of lung cancer screening that are different than other cancer screenings. This results in a process that requires several steps not required for other cancer screenings.

Patient Eligibility and Referral

Determine Candidate Eligibility

The USPSTF recommends annual screening for lung cancer with low-dose computed tomography (LDCT) in adults aged 50 to 80 years who are asymptomatic, have a 20 pack-year smoking history, and who currently smoke or have quit within the past 15 years. Screening should be discontinued once a person has not smoked for 15 years or develops a health problem that substantially limits life expectancy or the ability or willingness to have curative lung surgery. Screen for lung cancer with LDCT <u>annually</u> as long as the individual remains eligible.

- RESOURCE CHECK: Need help calculating a pack-year?
 - Pack Year Calculator (omnicalculator.com)
 - Pack Years Calculator (mdcalc.com)
- MEDICARE PATIENTS: CMS limits eligibility for lung cancer screening to adults aged 50-77.
 - Medicare LDCT Coverage Guidelines

How can you identify patients who may be eligible? Smoking status and history are the initial indicator for patient eligibility. Smoking status and history may be noted in the individual electronic medical record, creating opportunity to run a report of potentially eligible patients. However, patients may not disclose smoking status or history for a variety of reasons. Consequently, smoking status and history should be assessed at every visit opportunity to identify patients who may be eligible for screening.

Conduct the Shared Decision-Making Visit (SDM)

This is a counseling visit between the individual identified as eligible for screening and a provider to determine screening eligibility and to discuss the risks and benefits of screening.

- Required by Medicare for reimbursement purposes.
- Must be completed before the LDCT procedure but can be conducted during an annual visit or even on the same day as the screening.⁷
- Can be completed by a physician, a non-provider physician, or auxiliary personnel "incident to" a physician's professional service. See Chapter 15 of the Medicare Benefit Policy manual section 60.1 "Incident To Physician's Professional Services."⁷
- Must use a decision aid to address risks and benefits.
- Completion of the SDM visit must be recorded in the medical record.
- When making a referral from primary care, it must be noted on the referral if the SDM has been conducted to prevent duplication of this effort (and therefore, coverage denial).
- The SDM visit may be conducted via telehealth.
- **RESOURCE CHECK:** SDM resources, such as a decision aid, are included in Attachment A: Clinic Resources.

Tobacco Cessation Services

Cessation services must be offered to all individuals who currently smoke cigarettes. Positive reinforcement of behavior for individuals who formerly smoke cigarettes should also be considered.

- Required by Medicare for reimbursement purposes.
- Must be completed prior to the LDCT procedure.
- **RESOURCE CHECK:** Refer your patients to the Nevada Tobacco Quitline using the online for fax referral form.
 - <u>Nevada Tobacco Quitline Referral</u>
 - Patients can also call the Quitline at 1-800-QUIT-NOW (1-800-784-8669) or visit <u>https://nevada.quitlogix.org/</u>.
- RESOURCE CHECK: Promote the <u>American Lung Association Freedom</u> <u>From Smoking Program</u>. The American Lung Association can offer free membership to the online support group for Nevada residents.

Referral for Screening

If an eligible patient is identified at a non-screening entity, such as a primary care setting, and is referred for screening, the following should be documented in the beneficiary's medical records:

- Determination of eligibility;
- Shared decision-making visit was conducted, including the use of one or more decision aids;

⁷ LDCT-FAQs.pdf (acr.org)

- Counseling provided on the importance of adherence to annual lung cancer LDCT screening, impact of comorbidities and ability or willingness to undergo diagnosis and treatment; and,
- Counseling on the importance of maintaining cigarette smoking abstinence if a former smoker; or the importance of smoking cessation if a current smoker and, if appropriate, furnishing of information about tobacco cessation interventions.

BILLING TIP: This shared decision-making visit is billed as G0296. A facility fee can also be billed: 304090.

After the shared decision-making visit is documented and coded, the initial LDCT is ordered. In making a referral for LDCT, it must be noted to the referring entity that the shared decision-making visit has been conducted, documented, and coded. Failure to note this has been conducted may result in claim denial on either or both claims.

Radiology Requirements

For purposes of Medicare coverage of lung cancer screening with LDCT, reading radiologists and the radiology imaging facilities must meet the following criteria:

- Reading Radiologist board certification or board eligibility with the American Board of Radiology or equivalent organization; and Radiology Imaging Facility
- Must use a standardized lung nodule identification, classification, and reporting system. CMS finalized the decision to remove the radiology imaging eligibility criteria including (radiation dose, makes available smoking cessation interventions, and CMS-approved registry data submission).

Lung Cancer Screening Registry

The ACR Lung Cancer Screening Registry (LCSR) helps clinicians monitor and demonstrate the quality of LDCT lung cancer screenings in their practice through periodic feedback reports that include peer and registry benchmarks. Because screening is performed on an asymptomatic population, there is an added responsibility for the medical community to ensure that risks and benefits are adequately measured and monitored. While reporting to the registry is not required, contributing data to the LCSR not only helps clinicians improve their own quality of care, but also helps improve and refine lung cancer screening care for everyone at the national level. For more information visit Lung Cancer Screening Registry | American College of Radiology | American College of Radiology (acr.org)

Billing

- G0296 Counseling visit to discuss need for lung cancer screening (LDCT) using low-dose CT scan (service is for eligibility determination and shared decision making), and, is listed as a permanent telehealth code. The code is payable in the facility and the non-facility setting.
- 71271— Computed tomography, thorax, low dose for lung cancer screening, without contrast material(s)

Medicare will deny G0296 and 71271 for claims that do not contain these ICD-10 diagnosis codes:

- Z87.891 for former smokers (personal history of nicotine dependence).
- F17.21 for current smokers (nicotine dependence). See <u>Medicare MLN</u> <u>Matters Article MM12124</u>.
 - F17.211 Nicotine dependence, cigarettes, in remission
 - F17.213 Nicotine dependence, cigarettes, with withdrawal
 - F17.218 Nicotine dependence, cigarettes, with other nicotine-induced disorders
 - F17.219 Nicotine dependence, cigarettes, with unspecified nicotineinduced disorders

Note: Medicare coinsurance and Part B deductible are waived for this preventive service.

o **RESOURCE CHECK:** See Attachment B Billing Resources.

Patient Follow-Up

It is not required to send a follow-up letter detailing screening results, but examples of patient follow-up letters are included in Attachment D.

Promoting Screening

The Community Preventive Services Task Force has yet to release recommendations for evidence-based interventions to increase lung cancer screening. However, there have been several successful campaigns that may be adapted to your practice to promote LDCT for lung cancer screening. In any campaign effort, it is important to avoid any stigma related to smoking behaviors in your promotion as this may discourage screening, either through the perception that screening is not allowed for people who are currently smoking, or by shaming people away from screening. It is best to avoid any imagery of smoking or smoking behaviors in promoting lung cancer screening.

• **RESOURCE CHECK:** Additional brochure examples are included in Attachment C.

Outreach Resources

Community Health Worker Interventions

With targeted training regarding lung cancer and LDCT, Community Health Worker interventions have been effective in increasing awareness of lung cancer screening, though evidence is limited as to if they increase actual screening uptake^{8,9}, though CHW interventions are recommended to increase other cancer screening uptake such as breast, colorectal, and cervical so it is promising lung screening would be increased as well. Training CHWs may be useful to increase promoting your program. The American Cancer Society produced a series of webinars on Lung Cancer Screening that may be of help in training CHWs and Clinic Staff. Webinars on Lung Cancer - ACS4CCC

Screen Your Lungs Campaign

Screen your Lungs is a national campaign developed and supported by several partners including the American Cancer Society, Lungevity, Go2ForLungCancer, and the Nevada Cancer Coalition Lung Cancer Collaborative. The campaign includes a screening quiz and multiple resources translated into several languages. <u>ScreenYourLungs.org | Lung Cancer Screening</u>

Pink and Pearl Campaign

The American College of Radiology developed the Pink & Pearl Campaign to leverage conversations about mammography to also discuss LDCT. This campaign is showing promise in increasing positive attitudes toward lung cancer screening. <u>Print</u> and <u>Web</u> versions are available.

White Ribbon Project

The white ribbon project promotes awareness about lung cancer by changing public perception of the disease. This inclusive campaign focuses on awareness, education, and storytelling for patients of every stage, caregivers, researchers, health care professionals—anyone involved in the lung cancer story. <u>The White</u> <u>Ribbon Project</u>

⁸ Williams, L. B. PhD, FNP-BC, FAANP; Looney, S. W. PhD; Joshua, T. MS; McCall, A. PhD, APRN, FNP-BC; Tingen, M. S. PhD, RN, FAAN. Promoting Community Awareness of Lung Cancer Screening Among Disparate Populations: Results of the cancer-Community Awareness Access Research and Education Project. Cancer Nursing 44(2):p 89-97, 3/4 2021. | DOI: 10.1097/NCC.0000000000000748
⁹ Williams LB, Shelton BJ, Gomez ML, Al-Mrayat YD, Studts JL. Using Implementation Science to Disseminate a Lung Cancer Screening Education Intervention Through Community Health Workers. J Community Health. 2021 Feb;46(1):165-173. doi: 10.1007/s10900-020-00864-2. PMID: 32594413; PMCID: PMC8183677.

ATTACHMENT A: CLINIC RESOURCES

Contents

- o Sample Templates
- CT Lung Cancer Screening sample EHR form
- Sample CT Lung Cancer Screening Worksheet
- o AMA's Teachable Moment: Competing Mortality in Cancer Screening
- LDCT Protocol
- Lung-RADS Assessment Categories
- ACR Lung Cancer Screening CT Incidental Findings Quick Reference Guide



CT Lung Screening Order Form

Patient Name: DOB:/Patient phone # :
Packs/day (20 cigarettes/pack): x Years smoked: = Pack years *: *Pack year calculator: http://smokingpackyears.com/
Currently smoking? Y N If not currently smoking, how many years since stopped?
CT LUNG SCREENING EXAM (Please select one) INITIAL LUNG SCREENING EXAM SUBSEQUENT EXAM AUTHORIZATION* #
*Please authorize for ONE of the following codes: G0297 CT LOW DOSE LUNG SCREENING OR 71250 CT THORAX WITHOUT CONTRAST
FAX completed order form to IMI: 208-947-3322
The patient must meet ALL of the it low group meets or eligibility into the T Lung S reening program.
The patient has participated in a shared decision making session during which potential risks and benefits of CT lung screening were discussed, was informed of the importance of adherence to annual screening, impact of comorbidities, and ability/willingness to undergo diagnosis and treatment should the patient is diagnosed with lung cancer, and was informed of the importance of smoking cessation and/or maintaining smoking abstinence, including the offer of Medicare-covered tobacco cessation counseling services, if applicable.
The patient is between the ages of 55-77 years
 Has at least a 30+ pack year smoking history
 THE PATIENT IS ASYMPTOMATIC OF LUNG CANCER. <u>I ATTEST THE PATIENT DOES NOT HAVE AND IS NOT BEING TREATED FOR ANY</u> OF THE FOLLOWING: Significant chest pain
Unintended weight loss
 Hemoptysis Active pneumonia
Ordering Provider Signature:/
By signing this order, YOU ARE ATTESTING THAT THE PATIENT MEETS ALL OF THE ABOVE REQUIRED ELEMENTS, A SHARED DECISION MAKING VISIT HAS OCCURRED, AND REQUIRED ELEMENTS ARE DOCUMENTED IN THE OFFICE NOTES
Ordering Provider (print name):Phone:
DRDERING PROVIDER NPI** # Fax:
**Provider NPI number required.

Sample LCSC Order Form

Referral Reason:	0		
Questions:	Prompt	Answer	
	1. Signs, Symptoms and/or Diagnosis: (e.g. cou	Nugh): Lung Cancer Screening	
	2. Clinical Question: (e.g. eval for pneumonia)	Lung Cancer Screening	
	 By selecting YES, I am certifying that: 1) The pa has participated in a shared decision making session during which potential risks and bene CT lung screening were discussed and this h been documented in the medical record. 	patient Yes No 9 efits of has	
	4. By selecting YES, I am certifying that 2) The provide the importance of smoking cessation and has been offered Medicare-cow tobacco cessation counseling services, if appl and this has been documented in the medical record.	patient Yes No overed pplicable, al	
	 By selecting YES, I am certifying that: 3) The pa has no symptoms suggestive of lung cancer a has been documented in the medical record. 	patient Yes No rand this G	
	6. Age?		
	Current Smoker? 4	Yes No	
	 If No, # Years since quitting: 🥹 		
	9. #Years Smoked Cigarettes: 🤑		
	10. # Packs per day, on average: 🥥		
	11. Responsible provider pager number. 🥥		
Process Inst:	The Lung Cancer Screening clinic can ma screening. If you prefer this option, p Please consider using www.shouldiscreen requirements.	manage shared decision making, smoking cessation and follow up of imaging results and abnormalities discovered dur please cancel this order and place AMBULATORY REFERRAL TO LUNG CANCER SCREENING [REF2216]. en.com (link below) to assist in your risk assessment, shared decision making, smoking cessation counseling and do	ing <u></u>
Defenses Lieles			<u>-</u>
Reference Links.	1. Should I Screen		
Sched Inst:	Click to add text		
instructions:	9		

Sample order LCS order form addressing CMS requirements and ACR registry data elements courtesy of Cherie Erkmen, MD, Eileen O'Malley, Leslie Boff, Frank Erdlen Temple University Health Systems)

CT Chest Low Dos	e/Lung Cancer Screening		Accept Cancel Remove								
Status:	Expires-4/30/2016, Routine, Anchiary Performed	L Access 4/20/2016									
Priority:	Routine Routine STAT	Approx. Expires: 430/2010									
Class:	Ancillary Per 🔎	Ancillary Per 🔎									
Process Inst.	Patients must meet ALL of the following eligibility criteria for lung cancer screening 1. Age between 55-77 years 2. Asymptomatic (not suspected of having symptoms of lung cancer,like hemoptysis) 3. Tobacco smoking history of at least 30 pack years (one pack year = smoking one pack per day for one year; 1 pack = 20 cigarettes) 4. Current smoker or one who has quit smoking within the last 15 years 5. No previous lung cancer ever, and no previous cancer of any type within the last 5 years. (people with non-melanomatous skin cancers are eligible)										
Questions:	Prompt	Answer	<u>Comments</u>								
	 Is the patient's age between 55-77 yrs of age ? 	Yes No									
	Is the patient asymptomatic? 	Yes No									
	3. Actual pack year smoking history: 🤑										
	4. Current smoker? 🙀 🥹	Yes No									
	 Does the patient have a history of lung cancer ever, or any cancer within the last 5 years? People with non-melanomatous skii cancers are eliqible. 	Yes No									
	 Is the pt willing and able to undergo lung cancer treatment if lung cancer were to be diagnosed? 	Yes No									
	 Upper respiratory or lung infection within the last 12 weeks? 	Yes No									
	 Is your patient aware that if insurance does not cover the cost of the screening exam, your patient may have an out-of-pocket expense? 	Yes No									
	9. Reason for exam:	Baseline screen Annual screen									

CT LUNG CANCER SCREENING SHARED DECISION MAKING VISIT REQUIREMENTS

<Facility> offers a CT Lung Cancer Screening program. Eligibility into the program requires each patient to meet criteria as per the Medicare National Coverage Determination (NCD) for CT Lung Cancer Screening regardless of insurance coverage type, or lack of insurance.

The Centers for Medicare and Medicaid Services (CMS) has determined that the evidence is sufficient to add a lung cancer screening counseling and shared decision making visit, and for appropriate beneficiaries, annual screening for lung cancer with low dose computed tomography (LDCT), as an additional preventative service benefit under the Medicare program. To begin this process, a determination of eligibility must be demonstrated. **This requires an initial face to face visit between the prospective CT Lung Screening patient and the primary care provider where specific information is acquired relating to the current and past cigarette use, the benefits and harms of CT Lung Screening, and counseling of tobacco cessation. This is termed a shared decision making visit.** *Information gathered and documented in the office visit notes (medical record) will determine patient eligibility into the CT Lung screening program***.**

There is good news! The provider may bill for this CT Lung Cancer Screening shared decision making visit given a new screening code, G0296, *defined as a Counseling visit to discuss need for lung cancer screening (LDCT) using low dose CT scanning (the service is for eligibility determination and shared decision making).*

REQUIRED ELEMENTS OF THE SHARED DECISION MAKING VISIT THAT MUST BE DOCUMENTED:

- ✓ Patient must be between the age of 55-77
- ✓ Asymptomatic; No signs or symptoms of lung cancer
- ✓ Tobacco smoking status*; current smoker or former smoker.
 - If current smoker, patient must have tobacco smoking history of at least 30-pack years.
 - Patient specific smoking pack-years must be documented in the medical record.
 (One pack year=smoking one pack per day for one year. 1 pack=20 cigarettes)
 - If former smoker, number of years since quit smoking
 - CT Lung screening is only applicable to patients who smoke cigarettes.
- ✓ Use of one or more decision aids, to include benefits and harms of screening, follow up diagnostic testing, over diagnosis, false positive rate, and total radiation exposure.
- ✓ Counseling on the importance of adherence to annual lung cancer LDCT screening, impact of comorbidities and ability or willingness to undergo diagnosis and treatment.
- Counseling on the importance of maintaining cigarette smoking abstinence if former smoker; or the importance of smoking cessation if current smoker and, if appropriate, furnishing of information about tobacco cessation interventions, and,
- ✓ If appropriate, the furnishing of a written order for lung cancer screening with LDCT. *The written order is required to contain specific criteria.*

For more information please use the following links:

https://www.cms.gov/medicare-coverage-database/details/nca-decision-memo.aspx?NCAId=274

http://www.acr.org/~/media/ACR/Documents/PDF/QualitySafety/Resources/Lung%20Imaging%20Resources/Example%20of%2 Oshared%20decision%20making.pdf

http://www.shouldiscreen.com/

http://www.radiologyinfo.org/en/info.cfm?pg=screening-lung

http://www.cancer.gov/types/lung/research/NLSTstudyGuidePatientsPhysicians.pdf

Sample shared decision making note addressing CMS requirements and ACR registry data elements courtesy of (Cherie Erkmen, MD, Eileen O'Malley, Leslie Boff, Frank Erdlen from Temple University Health Systems)

🔎 N	ote Editor	
☆	Arial 💽 12 🔽 B / U A 🗸 125% 🔽 🗮 🛱 🎲 🌐 🖍 Insert SmartText 🛱 🛃 🐼 📌 🖏 🌄	
Lu	ng Cancer Screening Counseling Note	
1	Patient's date of hirth 1952 63 v o	
2	Valents date of binding and book of lung cancer	
3.	Patient has smoked *** (actual number) pack years	
4.	Patient {is/is not:19887} a current smoker.	
5.	(If applicable) This patient quit smoking *** years ago	
6.	Patient has no history of lung cancer and no treatment for cancer within the last 5 years. History of non-melanoma skin cance	r
ex	cluded.	
1.	Batient has he no respiratory or lung infection requiring antibiotics within the last 12 weeks?	
9	have verified the above eliability criteria for lung cancer screening *** (provider NPI)	
-		
Du	ring this visit, I counseled the patient on lung cancer screening and used the lung cancer screening Option Grid to guide our	
pe	rsonalized, shared decision making process.	
Т	e natient was counseled on the notential harms and henefits of lung cancer screening including the false positive rate (about 25% f	or
on	e screening round), radiation exposure (1.5 mSv per scan), over-diagnosis rate (about 10%)	
Th	e patient knows about the possible results of a screening CT scan for lung cancer:	
B	sitive findings. The nationt knows that the low does CT for lung cancer screeping, alone, cannot completely diagnoss lung cancer	٨
sc	and that identifies a nodule, a finding uspicious for lung cancer or other incidental finding may require additional diagnostic tests or	~
pro	ncedures.	
Ne	gative findings: A single negative scan means that the high risk of having lung cancer at the time is low, but not zero. To reduce the	e risk
OT	lung cancer death, in the future, high risk individuals should receive annual scans until the age of 77, the CMS standard is now 77 y	ears
CI	, or a non-near problem supersedes long cancer screening. We emphasized the importance of adherence to an annual low of scan for lung cancer screening. We discussed that even lung cancer screening, with annual low dose CT scan can miss some lung	150
ca	scan for hing carteering. We discussed that even hing carteer screening, with annual low dose of scan cart miss some range	9
W	e discussed that the patient should receive lung cancer screening only if she	lant
fro	s physically able to undergo lung cancer treatment, like surgery. In other words, if the patient has comorbidities that prevent the pati m undergoing lung cancer treatment, she should not undergo lung cancer screening.	ient
	mandergoing lang cancer accanent, and anotid not andergo lang cancer acceening.	

Sample screenshots of data entry system courtesy of Cherie Erkmen, MD and David Fleece, MD Temple University Health Systems

Imaging data

🔗 Lung CA Screening - Lung	Cancer	Screen Imaging and Dx						↑ ↓
								Show: All Choices
🗢 Imaging								
Was LDCT performed?	D	es No						
Facility	C	TUH Episc FCCC	Jeanes NEH					
CT Manufacturer	D							
CT Model	C							
CTDIvol (mGy)	C			DLP (mGy	*cm)	D		
Tube current-time (mAs)	0			Tube volta	ge (kV)	D		
Scanning time (s)		iii		Scanning (cm)	volume	<u>۵</u>		
Pitch	6			Reconstru width (z-a)	cted image cis, mm)	ß		
CT exam result by	C	0=recalls (inco			1=normal: contin	ue annual screening		
Lung-RADS category		2=benign appearance or behav	al screening		3=6 month CT recommended			
		4A=3 month CT recommen	PET/CT 4B=addition		nal diagnostics and	/or tissue sampling rec	commended	
		4X=additional diagnostics and/or	tissue sampling re	commended.				
Lung Nodule?	C V	es No						
Number	1							
Location		RUL RML RLL LUL	LLL					
Size	3							
Appearance		solid part solid non-solid	d calcified	other				
Characteristics	ß							
Other clinically or potentially significant abnormalities - CT exam result modifier S	D Y	'es No						
Prior Hx lung cancer - CT modifier C	۵	Yes No Unknown	٦					

© 2015 Epic Systems Corporation. Used with permission

Workup and diagnosis

uo none:															
🗢 Workup															
Diagnostic f/u study date			13	1											
Diagnostic f/u study type	D	low dos	e chest	СТ	routin	e chest	СТ	PE	T/CT		other				
Description	B														
Follow-up Consult date			1												
Consult Specialty	B	Pulmo	nology		Thoracic	Surgery	/	Other							
Follow-up Procedure date	D		1												
Follow-up Procedure	Ľ	bronc	hoscopy		navigat	ional bio	p	EB	US	CT guide	ed biopsy	US guide	d biopsy	s	urgery
Procedure location	C	L hilum	Ling	ula	LLL	L	UL	R hilum	RLL	RML	RML/R	RUL/R	RUL	othe	r
🗢 Diagnosis															
Tissue Dx date	3														
Tissue Dx method	D	1=perci	Itaneous		2=bronch	ioscopio	:	3=surgio	al						
Tissue source	D	RUL		RML		RLL	LU	L/ling	LLL	R lung) L lui	ng lym	iph n	effusion	unknown
Tissue Diagnosis	ß			1	=Benign				2	-Malignant - I	invasive lung	cancer			
	1	3=Malignant - NON-lung cancer			er		4=Mai	gnant - minim	ally invasive	lung cancer	3				
		5=Malionant - adenocarcinoma in situ				n situ	u 6=Premalignancy - atypical adenomatous hype								
	i			7=No	n-diagno	stic									
Histology				1	=Non-sm	all cell lu	ino can	cer			2=Small cell	lung cancer	(high an	ade neuroen	docrine tumor)
	200		3=C	arcinoi	d (low g	ade neu	roendo	crine tumo	r)		4=Atypical ca	rcinoid (inter	mediate	grade neuroe	endocrine tumor)
Histology (NSCLC)	C	1	=Invasiv	aden	ocarcino	ma		2=S	uamous c	I carcinoma		3-A denosquamous cell carcinoma			
	200		4=Large	cello	arcinoma			5=Undiffe	rentiated/p	orly differen	ntia	8=Other specify			
	D	we	I differei	ntiated		moder	ately di	ifferentiate	d	poorly differe	entiated	und	lifferentia	ited	
Cell differentiation															
Cell differentiation Clinical Stage	ß	IA IB	IA	IIB	IIA	IIB	NN	43							
Cell differentiation Clinical Stage Pathologic Stage	C	IA IB	AI NA	IIB IIB	IIA IIA	IIB IIB		13							

Sample data entry screenshots of data entry system courtesy of Cherie Erkmen, MD and David Fleece, MD Temple University Health Systems

Demographics and eligibility

Lung CA Prescreening a	nd Eligibi	llity - Prescreening a	nd Eligibility							
										Show
Demographics and C	Clinical	Hx								
Education Level	D	1=8th grade or less	2=9th-11th grade	3=High s	school grad leve	4=Pos	st high school traini	ng 5=,	Assoc degree/se	ome colleg
		6=Bachelor's degree	7=Graduate or P	Prof School	8=Other	99=Unknow	n/decline to answe	r		
Environmental Exposures	D	none rador	n asbestos	silica	cadmium	arsenic	beryllium	chromium	diesel fu	nickel
Secondhand smoke exposure	D	Yes No								
Lung cancer in 1st deg relative:	0	Yes								
Figure Previous evaluation for lung nodule?	<u>[</u>]	Yes No								
Comorbidities	D	COPD	Emphyse	ema	Pulmonary	fibrosis	CAD		CHF	
		PVD	Cancer other	than lu	Other (add o	omment)				
Smoking Status	D	1=current smol	ker	2=former sr	moker	3=r	never smoker	4=s	moker, current s	tatus u
		9=unknown if ever	smoked		0.44(1)))))					
Pack-Years	D	34			Year Qu	iit	D		111	
# years since quit	D				10					
Previous lung cancer screening	D	Yes No	Unknown							
Previous Chest CT (any reason)	D	Yes No	Unknown							
Where	D	NY								
When		2005								
Previous scan available?	C	Images + Result (Epic) Images (CD/	DVD)	Images (hard	copies)	Result (scanned	d) R	Result (paper cop	y)
Respiratory infection in the past 12 weeks?	D	Yes No	Unknown							

© 2015 Epic Systems Corporation. Used with permission

Shared decision making

Shared Decision Maki	ng		
Did PCP/referring provider perform SDM?	Yes No Unknown		
Pretest CollaboRATE 3 score		SDM visit date	
SDM visit location	PCP encounter	Specialty encounter Screening Program encounter	Other
SDM Note Completed?	Yes No Unknown		
SDM Note available?	Ves No		
SDM Tool used	OptionGrid Other		
All SDM criteria met?	Yes No Unknown		
Aware of potential cost of CT?	Yes No Unknown		
Aware of potential cost of other interventions?	Yes No Unknown		
Does PCP have Epic access?	Yes No		
Does ordering provider have Epic access?	Ves No		
Grdered in Epic?	No No		
Consent on file?	Ves No		
Willing to be contacted regarding future research?	Yes		
🕅 Restore 🛛 🖉 Clos	e F9 🗙 Cancel		🛉 Previous F7 🦆 Next F8



March 14, 2016

Patient ID: Date of LDCT:

Dear :

We wish to inform you that the results of your recent Low Dose Lung Screening CT show a probably benign finding with a low likelihood of becoming a clinically active cancer. It is recommended that you undergo a follow-up Low Dose CT in 6 months to assure that the finding is stable.

A report of your results was sent to your health care provider.

Your images will become part of your medical record at my facility. They will be on file for your ongoing care. If, in the future, you change health care providers or go to a different location for a Low Dose Lung Screening CT, you should tell them where and when this CT was done.

Thank you for allowing us to help meet your health care needs.

Sincerely,

April Smith, MD Interpreting Radiologist

CT Lung Cancer Screening Eligibility

All answers must be Yes for patient to qualify for CT Lung Cancer Screening

If the patient does NOT meet criteria to qualify for the screening and the order is submitted anyway, then the patient may be responsible for the entire cost of the screening.

U.S. Preventative Services Task Force (USPSTF) recommends annual screening for lung cancer with LDCT in adults aged 50 to 80 years who have a 20 pack-year smoking history and currently smoke or have quit smoking within the past 15 years.

Packs/Day (20 Cigarettes/Pack)	Years Smoked	Pack Years
*Patient Has At Least 20 Pack	*Patient Is A Current Smoker Or Quit Smoking	*Patient Is Between The
Years Smoking History	Within Past 15 Years	Ages Of 50-80 Years
O Yes	O Yes	O Yes
O No	O No	O No
*Patient Has NO Signs/Symptoms Of Lung Cancer	*Patient has participated in a clear discussion and explanation of the high risk factors associated with smoking tobacco. Time was included for answering questions to the satisfaction of the patient.	*Patient Is Able To Tolerate Treatment
O Yes	O Yes	O Yes
O No	O No	O No

If the patient does not qualify or declines, please finish signing the form and remove the order.

*Does Patient Qualify For Lung Cancer Screening?	 Does qualify for lung cancer screening using low-dose chest CT Does not qualify for lung cancer screening using low-dose chest CT
*Lung Cancer Screening Proceed Or Decline	 At this time, the patient would like to proceed with lung cancer screening using low-dose chest CT At this time, the patient would like to decline lung cancer screening using low-dose chest CT
Counseling Visit - G0296	O Charge for counseling visit to discuss need for lung cancer screening using low-dose chest CT scan
Discussed Risk Of Smoking With Patient	
O Discussed smoking risk with patient	

- -Tobacco smoke is harmful to smokers and nonsmokers (contains harmful chemicals); it can cause chronic lung disease such as emphysema, bronchitis, and asthma
- -Cigarette smoking causes many types of cancer (lung, throat, mouth, nasal cavity, esophagus,
- stomach, pancreas, kidney, bladder, cervix, and acute myeloid leukemia)
- -Quitting smoking reduces health risks caused by exposure to tobacco smoke
- -Health problems caused by smoking are heart disease, stroke, aneurysm, chronic obstructive pulmonary disease, hip fractures, and cataracts
- -Strong commitment is needed to gain benefits from lung cancer screening (adherence to program) -Values placed on benefits, harms, and scientific uncertainties

HGH Radiology CT Lung Cancer Screening Worksheet

1.	Name	Date
2.	Race (Circle)	
	White American Indian Black	Native Hawaiian or Pacific Other
	Hispanic or Latino	
3.	COVID diagnosis Yes No	Approximate Date if yes
4.	Smoking Status (Circle)	
	Current Smoker Former Smoker	When did you quit?
	Years SmokedPacks per Da	ау
5.	HeightWeight	
6.	Have you ever had any of the following h	ealth problems (circle all that apply):
	COPD	Congestive heart failure
	Emphysema	Peripheral Vascular Disease
	Pulmonary fibrosis	Lung Cancer
	Coronary Artery Disease	Cancer other than lung cancer

7. Have you ever had a CT Lung Cancer Screening in the past? Yes No

LESS IS MORE

TEACHABLE MOMENT

Competing Mortality in Cancer Screening

Daniel Schneider, MD, PhD

Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine University of Michigan Medical School, Ann Arbor.

Douglas Arenberg, MD

Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine University of Michigan Medical School, Ann Arbor.

 \leftarrow Editorial

Corresponding

Author: Douglas Arenberg, MD, Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, University of Michigan Medical School, 1150 W Medical Center Dr, 6301 MSRB III SPC 5642. Ann Arbor MI 48109 (darenber@umich.edu). A Teachable Moment

Story From the Front Lines

A 70-year-old man saw his primary care clinician and expressed concern about his lung cancer risk after learning a friend had recently died of it. The patient had had an 80-pack-year history, and had guit 7 years previously. His physician ordered a screening chest computed tomographic (CT) scan, which demonstrated a spiculated 12-mm lung nodule that was new when compared with scans done previously for other reasons. This prompted a positron emission tomographic scan, which showed metabolic activity, raising the suspicion for lung cancer. He was referred to a pulmonary-nodule clinic.

The man presented to the pulmonary clinic in a wheel chair while receiving continuous oxygen. His medical history revealed severe diastolic heart failure; chronic obstructive pulmonary disease; obesity (his body mass index, calculated as weight in kilograms divided by height in meters squared, was 54); diabetes mellitus with microvascular complications, including stage III chronic kidney disease; and peripheral neuropathy. Additional medical history included several recent falls attributed to progressive neuropathy and deconditioning. These considerations were discussed with the patient and ultimately, invasive diagnostic testing was discouraged. A conservative plan that included a repeated CT scan in 4 months was mutually agreed on. Two months after this visit, the patient was admitted and treated for pneumonia. While recovering in the hospital, his primary team noted that this nodule had not undergone workup and he had another CT scan, which demonstrated interval growth. He was scheduled for an outpatient CT-guided biopsy.

Prior to the biopsy, the patient was rehospitalized for pneumonia, this time requiring intensive care unit admission. His medical history was addressed at a multidisciplinary thoracic tumor conference. He was not a surgical candidate, and attempts to biopsy the nodule were also considered to be high risk. Therefore, he was referred to radiation oncology to discuss the risks and benefits of empirical radiation therapy without a tissue diagnosis. Prior to meeting with radiation oncology, in follow-up at an outpatient clinic 2 weeks after discharge, he had increasing dyspnea, was delirious, and was thought to yet again have pneumonia. He was ultimately referred to palliative care for consideration of hospice.

Teachable Moment

Common cautions in the context of screening for lung cancer include high false-positive rates, complications of invasive procedures, radiation exposure, and psychological stress. Other considerations, which this pa-

tient's case illustrates, are the importance of considering competing mortality when assessing the potential benefits of screening and overdiagnosis. The US Preventive Services Task Force clearly emphasizes this in their recently released guideline statement: "Screening may not be appropriate for patients with ... comorbid conditions, particularly those who are in the upper end of the screening age range."^{1.2} In other words, screening should be restricted to those whose health permits them to benefit from and tolerate the additional testing and treatment required.

This is also reflected in the "shared decision making" requirement of the Centers for Medicare and Medicaid Services decision³ to cover lung cancer screening for high-risk Medicare beneficiaries. This emphasizes the idea of targeting screening based on patient comorbidities and individualized preferences. Physicians should resist the temptation and not feel obliged to offer screening to patients only because they meet age and smoking requirements. Rather, as this case illustrates, physicians will be doing a disservice to patients and the health care system if they offer screening to patients that will not benefit.

As screening for lung cancer is implemented in a wider population, we can expect screening subjects who are sicker than the National Lung Cancer Screening Trial participants and arguably sicker than the populations offered other cancer screening interventions owing to targeting patients with considerable smoking history. We can also expect a reduction in overall benefit as follow-up compliance inevitably regresses away from the 95% adherence attained in a clinical trial. This stresses the importance of careful selection of patients who are likely to benefit from intervention.

Overdiagnosis is related to competing mortality, in that it represents the detection of clinically insignificant cancers. This determination varies from patient to patient because those with lower life expectancy have a greater chance of experiencing "overdiagnosis" during cancer screening. Both retrospective studies^{4,5} of actual practice patterns and survey data confirm that screening for cancer is offered to patients with limited life expectancy and therefore limited potential to benefit from screening. Recognizing the impact of comorbid illness on the effectiveness of cancer screening is arguably more important in the patient population eligible for lung cancer screening owing to a high prevalence of smoking-related comorbidities.

As lung cancer screening is more widely adopted, considerations of comorbid disease must be incorporated into shared decision-making, and decision aids that

iamainternalmedicine.com

facilitate this might prove very useful. In our patient, it was hard to predict his accelerated decline but comparatively very easy to pre-

dict that, if a screen-detected cancer was present, he would die with it, not as a result of it.

Published Online: April 6, 2015. doi:10.1001/jamainternmed.2015.1232. Conflict of Interest Disclosures: None reported.

1. Moyer VA. Screening for Lung Cancer: US Preventive Services Task Force Recommendation Statement. *Ann Intern Med*. 2014;160(5):330-338. doi:10.7326/M13-2771.

2. de Koning HJ, Meza R, Plevritis SK, et al. Benefits and harms of computed tomography lung cancer

screening strategies: a comparative modeling study for the U.S. Preventive Services Task Force. *Ann Intern Med.* 2014;160(5):311-320.

3. Centers for Medicare and Medicaid Services. Decision memo for screening for lung cancer with low dose computed tomography (LDCT) (CAG-00439N). http://www.cms.gov/medicare -coverage-database/details/nca-decision-memo .aspx?NCAId=274. Accessed March 10, 2015. 4. Royce TJ, Hendrix LH, Stokes WA, Allen IM, Chen RC. Cancer screening rates in individuals with different life expectancies. *JAMA Intern Med*. 2014; 174(10):1558-1565.

5. Leach CR, Klabunde CN, Alfano CM, Smith JL, Rowland JH. Physician over-recommendation of mammography for terminally ill women. *Cancer*. 2012;118(1):27-37.

LDCT Protocol

- 1. Lung apices to costophrenic sulci
- 2. FOV not to extend more than 1cm beyond rib cage, do not include the soft tissues of the chest wall.
- 3. Patient centered to the Gantry
- 4. Supine, arms above head
- 5. Inspiration
- 6. Slice thickness of <2.5mm, preferred is less than or equal to 1.0mm
- 7. interval <2.5mm
- 8. Max tube rotation is less than or equal to 0.5 seconds
- 9. Pitch between 0.7 and 1.5
- 10. Maximum dose index volume of 3 mGy (resulting in effective dose below 1 mSv).
- 11. kVp/mAs based on patient size
- 12.
- 13. Multiplanar reconstruction(MPR) both Coronal and Sagittal

ADULT LUNG CANCER SCREENING TECHNICAL SPECIFICATIONS

	Adult Chest for Lung Cancer Screening								
Technique Parameters (Items in bold are designation requirements. Failure to meet these requirements will result in deferral of Designation)									
Scan Parameter	Scan Parameter Parameter Specification Comments								
Scanner type	multidetector helical (spiral) detector rows ≥ 4	non helical and single detector scanners are not appropriate for lung cancer screening CT							
Required Series		No IV or oral contrast should be used							
kV	100 to 140 acceptable for standard sized patient	Should be set in combination with mAs to meet CTDIvol specifications							
mAs	Should be set in combination with kVp to meet CTDIvol specifications.	The mAs selected should result in diagnostic-quality images of the lungs Should take into account the patient's body habitus and age, slice width, kVp, and unique attributes of the scanner and acquisition mode							
Max.Tube Rotation Time	≤ 0.5 seconds	0.75 second is acceptable if a single breath hold ≤15 seconds can be achieved for scanners that cannot perform 0.5 second rotation time							
Pitch (IEC Definition)	Between 0.7 and 1.5	Should be set with other technical parameters to achieve single breath hold scan and CTDIvol specifications							
Respiration	single breath hold full inspiration								
Scan duration/ Acquisition time	≤ 15 seconds	Time to acquire the scan though entire lungs within a single breath							
Reconstructed image width (nominal width of reconstructed image along z- axis)	≤ 2.5 mm	≤ 1 mm preferred							
Reconstructed image spacing (Distance between two reconstructed images)	≤ slice width	Overlapping reconstructions are not necessary but are acceptable							



Patient with mediastinal mass. The initial CT scan of the chest (A) was obtained by using standard technique. The kVp was set at 120, which resulted in a CTDI vol of 11.6.

On follow-up CT scan of the chest (B), the kVp was reduced to 100. This resulted in a 37% decrease in the dose of radiation (CTDIvol of 5.84).

There is slightly increased image noise on the follow-up CT scan of the chest, but the image quality is diagnostic and comparable to that of the initial scan.

LUNG CANCER SCREENING CT (Selected GE scanners) with AEC (smartmA) on (Back to INDEX)

SCOUT: AP S60-I400; from top of shoulder through mid-liver, if automatic exposure control is used. PA scout if manual mA is used.

1.0

....

	Lightopeeu te	Brightopeed to	Lightopeed VC1	opunia 660
Scan Type	Helical	Helical	Helical	Helical
Rotation Time (s)	0.5	0.5	0.5	0.5
Beam Collimation (mm)	43758	20	40	40
Detector Configuration	16x0.625 / 16x1.25	16x1.25	64x0.625	64x0.625
Pitch	1.375	1.375	0.984	0.984
Speed (mm/rot)	13.75 / 27.50	27.5	39.36	39.36
kV	120	120	120	120
min mA	40	40	30	30
max mA	130	130	110	110
Noise Index (smart mA) ¹	32	32	32	32
SFOV	Large Body	Large Body	Large Body	Large Body
CTDIvol	2.6 / 2.4 mGy	2.4 mGy	2.2 mGy	2.2 mGy

RECONT				
Plane	Axial	Axial	Axial	Axial
Algorithm	Lung or Bone	Lung or Bone	Lung or Bone	Lung or Bone
Recon Mode	Full or Plus	Full or Plus	Full or Plus	Full or Plus
Thickness (mm)	2.5	2.5	2.5	2.5
Interval (mm)	1.25	1.25	1.25	1.25
ASiR/ASIR-V (if used)			70	70

RECON 2				
Plane	Axial	Axial	Axial	Axial
Algorithm	Lung or Bone	Lung or Bone	Lung or Bone	Lung or Bone
Thickness (mm)	0.625 / 1.25	1.25	0.625	0.625
Interval (mm)	0.4 / 0.625	0.625	0.4	0.4
ASiR/ASIR-V (if used)			70	70
Recon Option				

	-	~	0		-
ĸ	E	-	U	PN.	- 4

DECON 4

Algorithm	MIP	MIP	MIP	MIP
Thickness (mm)	6	6	6	6
Interval (mm)	3	3	3	3
ASiR/ASIR-V (if used)				
Recon Option				

¹ Noise Index value of 32 ONLY applies if the 2.5 mm reconstructed image thickness is selected as the first reconstruction; if other slice thicknesses (e.g. 0.625mm or 1.25 mm) are selected for the first reconstruction, then a different Noise Index value must be chosen in order to achieve the CTDIvol values described here; This is because the Noise Index value is related to the image thickness of the first reconstruction.

	Approx. Weight (kg)	Approx. Weight (lbs)	mA	Approx. CTDIvol (mGy)
Small Patient	50-70	110-155	25-50	0.9-2.3
Avg. Patient	70-90	155-200	50-75	1.8-3.6
Large Patient	90-120	200-265	75-100	2.7-4.6



Lung-RADS[®] Version 1.1

Assessment Categories Release date: 2019

Category Descriptor	Lung- RADS Score	Findings	Management	Risk of Malignancy	Est. Population Prevalence
Incomplete	0	Prior chest CT examination(s) being located for comparison Part or all of lungs cannot be evaluated	Additional lung cancer screening CT images and/or comparison to prior chest CT examinations is needed	n/a	1%
Negative No nodules and definitely benign nodules	1	No lung nodules Nodule(s) with specific calcifications: complete, central, popcorn, concentric rings and fat containing nodules			
Benign Appearance or Behavior Nodules with a very low likelihood of becoming a clinically active cancer due to size or lack of growth	2	Perifissural nodule(s) (See Footnote 11) < 10 mm (524 mm ³) Solid nodule(s): < 6 mm (< 113 mm ³) new < 4 mm (< 34 mm ³) Part solid nodule(s): < 6 mm total diameter (< 113 mm ³) on baseline screening Non solid nodule(s) (GGN): <30 mm (<14137 mm ³) OR ≥ 30 mm (≥ 14137 mm ³) and unchanged or slowly growing Category 3 or 4 nodules unchanged for ≥ 3 months	Continue annual screening with LDCT in 12 months	< 1%	90%
Probably Benign Probably benign finding(s) - short term follow up suggested; includes nodules with a low likelihood of becoming a clinically active cancer	3	Solid nodule(s): ≥ 6 to < 8 mm (≥ 113 to < 268 mm ³) at baseline OR new 4 mm to < 6 mm (34 to < 113 mm ³) Part solid nodule(s) ≥ 6 mm total diameter (≥ 113 mm ³) with solid component < 6 mm (< 113 mm ³) OR new < 6 mm total diameter (< 113 mm ³) Non solid nodule(s) (GGN) ≥ 30 mm (≥ 14137 mm ³) on baseline CT or new	6 month LDCT	1-2%	5%
Suspicious Findings for which additional diagnostic testing is recommended	4A	Solid nodule(s): ≥ 8 to < 15 mm (≥ 268 to < 1767 mm³) at baseline OR growing < 8 mm (< 268 mm³) OR new 6 to < 8 mm (113 to < 268 mm³) Part solid nodule(s): ≥ 6 mm (≥ 113 mm³) with solid component ≥ 6 mm to < 8 mm (≥ 113 to < 268 mm³) with a new or growing < 4 mm (< 34 mm³) solid component Endobronchial nodule	3 month LDCT; PET/CT may be used when there is a ≥ 8 mm (≥ 268 mm³) solid component	5-15%	2%
Very Suspicious Findings for which additional diagnostic testing and/or tissue sampling is recommended	4B 4X	 Solid nodule(s) ≥ 15 mm (≥ 1767 mm³) OR new or growing, and ≥ 8 mm (≥ 268 mm³) Part solid nodule(s) with: a solid component ≥ 8 mm (≥ 268 mm³) OR a new or growing ≥ 4 mm (≥ 34 mm³) solid component Category 3 or 4 nodules with additional features or imaging findings that 	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 ≥ 8 mm (≥ 268 mm ³) solid component. For new large nodules that develop on an annual repeat screening CT, a 1 month LDCT may be recommended to	> 15%	2%
Other Clinically Significant or Potentially Clinically Significant Findings (non lung cancer)	S	increases the suspicion of malignancy Modifier - may add on to category 0-4 coding	address potentially infectious or inflammatory conditions As appropriate to the specific finding	n/a	10%

IMPORTANT NOTES FOR USE:

- 1) Negative screen: does not mean that an individual does not have lung cancer
- Size: To calculate nodule mean diameter, measure both the long and short axis to one decimal point, and report mean nodule diameter to one decimal point
 Size Thresholds: apply to nodules at first detection, and that grow and reach a higher size category
- 4) Growth: an increase in size of > 1.5 mm (> 2 mm³)
- 5) Exam Category: each exam should be coded 0-4 based on the nodule(s) with the highest degree of suspicion
- 6) Exam Modifiers: S modifier may be added to the 0-4 category
 7) Lung Cancer Diagnosis: Once a patient is diagnosed with lung cancer, further management (including additional imaging such as PET/CT) may be performed for purposes of lung cancer staging; this is no longer screening
 8) Practice audit definitions: a negative screen is defined as categories 1 and 2; a positive screen is defined as categories 3 and 4
- Category 4B Management: this is predicated on the probability of malignancy based on patient evaluation, patient preference and risk of malignancy; radiologists are encouraged to use the McWilliams et al assessment tool when making recommendations 9)

12) Category 3 and 4A nodules that are unchanged on interval CT should be coded as category 2, and individuals returned to screening in 12 months 13) LDCT: low dose chest CT

*Additional resources available at - https://www.acr.org/Clinical-Resources/Reporting-and-Data-Systems/Lung-Rads

*Link to Lung-RADS calculator - https://brocku.ca/lung-cancer-screening-and-risk-prediction/risk-calculators/



¹⁰ Category 4X: nodules with additional imaging findings that increase the suspicion of lung cancer, such as spiculation, GGN that doubles in size in 1 year, enlarged lymph nodes etc 11) Solid nodules with smooth margins, an oval, lentiform or triangular shape, and maximum diameter less than 10 mm or 524 mm³ (perifissural nodules) should be classified as category 2

ACR[®] Lung Cancer Screening CT Incidental Findings **Quick Reference Guide**



This Quick Guide is intended for use by Lung Cancer Screening (LCS) program coordinators and nurse navigators as they assist in the care coordination of LCS patients in collaboration with the referring providers.

- The Quick Guide lists common incidental findings on LCS CT and the typical management and/or appropriate follow–up recommendations.
- Comparison to prior exams is important to assess for stability or change.
- The guidance provided is intended to serve as a simple reference tool and does not replace the more comprehensive White Paper, ACR Appropriateness Criteria[®] and reference documents listed on the third page.
- The interpreting radiologist should include significant incidental findings that need attention, with recommended follow-up, in the "Impression" section of the report.
- Questions about the findings in a radiology report are best answered by the radiologist who interpreted the exam.

Legend/Abbreviations:

ASCVD = atherosclerotic cardiovascular disease CAC = coronary artery calcification CE = contrast enhanced

- CT = computed tomography
- \rightarrow = action recommended, text in **Bold** type

MR = magnetic resonance imaging OK = typically, but not always, insignificant or benign US = ultrasound w/u: = work up with follow-up imaging PCP = primary care provider

Anatomic Region	Findings/Recommendations
Abdominal	
Adrenal ¹	 Adrenal calcification – OK. Nodule < 10 HU (fat density), likely adenoma – OK. Soft tissue density nodule < 1 cm – OK. Adrenal nodule stable ≥ 1 year – OK. Any other nodule or mass → w/u: CE Adrenal CT or MRI.
Kidney ²	 Non-obstructing renal calculi – OK. Simple or hyperdense/hemorrhagic cyst ("Bosniak 1 or 2") < 4 cm – OK. → Soft tissue density (or mixed density) renal mass → w/u: CT or MRI of the Kidneys without and with IV contrast.
Liver ³	 Simple cyst – OK. Nodule < 1 cm – OK, likely benign. → Soft tissue nodule/mass ≥ 1cm → w/u: CE Abdomen CT or MRI. → Fatty liver/hepatic steatosis or cirrhosis → PCP evaluation.
Pancreas ⁴	 Coarse calcifications – OK. → Cyst/mass → w/u: CE Abdomen CT or MRI.
Musculoskeletal	
Bone Density ^{13,14,15}	 > 130 HU at L1 – OK. → 100 – 130 HU at L1 (Osteopenia) → consider PCP evaluation. → < 100 HU at L1 (Osteoporosis) → PCP evaluation and consider DEXA.
Other	Degenerative disc disease – OK.

Cardiovascular	
Aorta ⁶	 "Ectasia of the thoracic aorta" – OK. Mural calcification – OK. Ascending Aorta < 42mm – OK. → Ascending Aorta ≥ 42 mm → PCP surveillance or cardiology consult for aneurysm surveillance.
Cardiac/pericardium	 Trace/small pericardial effusion – OK. → Moderate or large pericardial effusion → discuss with PCP. → Other Abnormalities (such as moderate or greater aortic valve calcification) → PCP evaluation.
Coronary arteries ^{7,8}	 Coronary artery calcifications (CAC) typically reported as none, mild, moderate, or severe. → CAC present → PCP evaluation for ASCVD risk assessment.
Main PA measurement 9,10	 < 31 mm – OK. → 31 mm → PCP evaluation, consider Cardiology or Pulmonary consult.
Breast	
	Coarse calcifications – OK.
	 Cyst with no associated solid component – OK.
	→ Any other nodule/mass or asymmetric density → w/u: diagnostic mammogram +/- US.
Esophagus	
	→ Large hiatal hernia or dilated esophagus → PCP evaluation. → Focal wall thickening or mass → PCP evaluation, consider GI consult.
Lung/Pleura	
Lung ¹¹	 Atelectasis – mild/subsegmental – OK.
	 Emphysema/bronchial wall thickening (Expected findings) – consider PCP evaluation; may benefit from Pulmonary consult.
	\rightarrow Fibrotic interstitial lung disease (ILD) \rightarrow recommend pulmonary consultation.
	→ Bronchiectasis/ground glass opacity/cystic lung disease/diffuse nodular disease → PCP evaluation, consider pulmonary consultation.
Pleura	→ New disease – effusion, thickening, mass → PCP evaluation, consider pulmonary consultation.
Mediastinum	
Lymph nodes (Short axis	• < 15 mm – OK.
measurement) ¹²	→ ≥ 15 mm & no explainable cause → PCP evaluation; consider pulmonary consultation. Consider follow-up CE Chest CT in 3–6 months.
Other ¹²	• Cyst – OK.
	\rightarrow Mass (soft tissue or mixed density) \rightarrow CE Chest MRI or CT.
Thyroid ¹⁶	
Features	 Large and heterogeneous, likely goiter – probably OK; consider thyroid function testing. Nodule < 15 mm – OK. → Nodule ≥ 15 mm or with suspicious features → w/u: thyroid US and clinical evaluation.

References:

1) Mayo-Smith WW, Song JH, Boland GL, et al. Management of Incidental Adrenal Masses: ACR Incidental Findings Committee. J Am Coll Radiol. 2017 Aug;14(8):1038–1044. 2) Herts BR, Silverman SG, Hindman NM, et al. Management of the Incidental Renal Mass on CT: ACR Incidental Findings Committee. J Am Coll Radiol. 2018 Feb;15(2):264–273.

3) Gore RM, Pickhardt PJ, Mortele KJ, et al. Management of Incidental Liver Lesions on CT: ACR Incidental Findings Committee. J Am Coll Radiol. 2017 Nov;14(11):1429–1437.

4) Megibow AJ, Baker ME, Morgan DE, et al. Management of Incidental Pancreatic Cysts: ACR Incidental Findings Committee. *J Am Coll Radiol.* 2017 Jul;14(7):911–923. 5) Heller MT, Harisinghani M, Neitlich JD, Yeghiayan P, Berland LL. Managing Incidental Findings on Abdominal and Pelvic CT and MRI, Part 3: White Paper of the ACR Incidental

Findings Committee II on Splenic and Nodal Findings. J Am Coll Radiol. 2013 Nov;10(11):833-839.

6) McComb BL, Munden RF, Duan F, Jain AA, Tuite C, Chiles C. Normative reference values of thoracic aortic diameter in American College of Radiology Imaging Network (ACRIN 6654) arm of National Lung Screening Trial. *Clin Imaging*. 2016;40(5):936–943.

7) Hecht HS, Cronin P, Blaha MJ, et al. 2016 SCCT/STR Guidelines for Coronary Artery Calcium Scoring Of Noncontrast Noncardiac Chest CT Scans: A Report Of The Society Of Cardiovascular Computed Tomography And Society Of Thoracic Radiology. J Cardiovasc Comput Tomogr. 2017:11(1):74–84.

8) Arnett DK, Blumenthal RS, Albert MA, et al. 2019 ACC/AHA Guideline on the Primary Prevention of Cardiovascular Disease: A Report of the American College of Cardiology/ American Heart Association Task Force on Clinical Practice Guidelines. *Circulation* 2019 Sep;140(11):e596–e646.

9) Truong QA, Bhatia HS, Szymonifka J, et al. A four-tier classification system of pulmonary artery metrics on computed tomography for the diagnosis and prognosis of pulmonary hypertension. J Cardiovasc Comput Tomogr. 2018;12(1):60–66.

10) Truong QA, Massaro JM, Rogers IS, et al. Reference values for normal pulmonary artery dimensions by noncontrast cardiac computed tomography: the Framingham Heart Study. *Circ Cardiovasc Imaging*. 2012 Jan;5(1):147–154.

11) Munden RF, Black WC, Hartman TE, et al. Managing Incidental Findings on Thoracic CT: Lung Findings. A White Paper of the ACR Incidental Findings Committee. J Am Coll Radiol. 2021 Jul; S1546-1440(21)00376–8.

12) Munden RF, Carter BW, Chiles C, et al. Managing Incidental Findings on Thoracic CT: Mediastinal and Cardiovascular Findings. A White Paper of the ACR Incidental Findings Committee. J Am Coll Radiol. 2018 Aug; 15(8):1087–1096.

13) Lee SJ, Pickhardt PJ. Opportunistic Screening for Osteoporosis Using Body CT Scans Obtained for Other Indications: the UW Experience. Clinic Rev Bone Miner Metab. 2017; 15(3):128–137.

14) Buckens CF, van der Graaf Y, Verkooijen HM, et al. Osteoporosis Markers on Low-Dose Lung Cancer Screening Chest Computed Tomography Scans Predict All-Cause Mortality. *Eur Radiol.* 2015 Jan; 25(1):132–139.

15) Boutin RD, Lenchik L. Value-Added Opportunistic CT: Insights into Osteoporosis and Sarcopenia. AJR. 2020;215:582–594.

16) Hoang JK, Langer JE, Middleton WD, et al. Managing Incidental Thyroid Nodules Detected on Imaging: White Paper of The ACR Incidental Thyroid Findings Committee. J Am Coll Radiol. 2015 Feb;12(2):143–150.

acr.org/lungresources | 1-800-227-5463 | 💟 😭 🛅 🛅

ATTACHMENT B: BILLING RESOURCES

Contents

o ACR Lung Cancer Screening Economics & Billing Quick Reference Guide





This guide is intended to answer commonly asked questions about lung cancer screening logistics, program requirements, economics and billing issues.

Definitions	
Chest CT	Generic term encompassing low-dose and non-low-dose CT, with or without IV contrast.
LDCT	Chest CT using low-dose technique — an imaging technique used to evaluate the chest primarily for lung nodule detection, follow-up and lung disease. The LDCT (low-dose chest CT) technique is required for lung cancer screening.
Interval CT	Short interval chest CT or CTA performed "off-cycle" between annual screening exams for diagnostic purposes. In most cases, performed with LDCT technique.
Surveillance CT	Diagnostic chest CT performed for surveillance in patients with known lung cancer, generally evaluating for recurrent cancer.
Program specifics	
Site accreditation requirements	For CT: CT accreditation is required for non–hospital-based outpatient facilities that bill for CT under part B of the Medicare physician fee schedule.
	For ACR [®] Lung Cancer Screening Center Designation: Facility must have ACR CT Accreditation and participate in the ACR Lung Cancer Screening (LCS) Registry.
	For ACR LCS Registry participation: ACR CT Accreditation is not required.
Ordering provider	An order for LCS LDCT must be provided by a licensed independent practitioner. Order may be electronic or paper-based.
Shared decision making	Face-to-face discussion by a licensed independent practitioner (physician, NP and PA) (required by Medicare for first-time screen only) or auxillary personel incident to physician's professional services. This discussion can be performed and reimbursed multiple times per year. This can be performed via telehealth.
	Can be performed as part of the Evaluation and Management (E&M) visit and billed with a 25 modifier. Optional but reimbursable (by Medicare) for subsequent annual LCS CT.
Smoking cessation intervention	Smoking cessation interventions and services must be offered to current smokers. If smoking cessation counseling is provided, it must be documented separately. Smoking cessation counseling can be reported in addition to an E&M visit, performed on the same day by the same licensed independent provider, by appending 25 modifier to the appropriate level of E&M service. This can be performed via telehealth.
Lung-RADS [®]	Used for interpreting low-dose LCS CT exams and interval follow-up CTs for screen- detected abnormalities that may be lung cancer.
	If an interval CT is performed for another reason, Lung-RADS use is recommended when possible for the lung nodule-specific findings.
	Use is required for participation in the ACR Lung Cancer Screening Registry [™] .
ACR Lung Cancer Screening Registry	Submission of data to the registry is optional but participation is encouraged to support quality improvement in LCS. The ACR submits a subset of data to CMS.

LCS coverage and eligibilit	y criteria
Medicare	LCS is covered as a preventive service in patients ages 50–77 years; \geq 20 pack-year smoking history; current smokers or quit within last 15 years; no signs or symptoms of lung cancer.
Medicaid	Varies, state-dependent. In Medicaid Expansion states, the United States Preventive Services Task Force (USPSTF) criteria apply. In other states, typically Medicare-like criteria apply. Verify specifics for your state.
Commercial	The USPSTF has recommended that LCS CT be covered as a preventive service for patients who meet the following eligibility criteria — ages $50-80$; ≥ 20 pack-year smoking history; patient who currently smokes or quit within last 15 years; no signs or symptoms of lung cancer (criteria were updated in March 2021).
Self-pay	Permitted for patients who do not meet standard criteria but fulfill National Comprehensive Cancer Network group 2 or other high-risk criteria.
	Coded as LCS LDCT (71271); submission to the ACR LCS Registry is required.
IDTF setting	LCS LDCT is covered in an Independent Diagnostic Testing Facility (IDTF) setting for patients with commercial insurance, Medicare, Medicaid or on a self pay basis.
Billing	
Pre-authorization requirement	Typically required for Medicare Advantage and commercial insurance.
	Not required for traditional Medicare.
	May be required for Medicaid (varies by state).
Shared decision-making visit	Code: G0296; no co-pay (ICD 10 code — recommend Z87.891 or F17.210).
LCS LDCT billing code	Code: 71271; no co-pay (ICD-10 code — recommend Z87.891 or F17.210).
Tobacco cessation counseling	3–10 minutes: CPT Code 99406 (ICD 10 code — recommend F17.210). Over 10 minutes: CPT Code 99407 (ICD 10 code — recommend F17.210).
Interval CT (diagnostic CT)	Diagnostic CT Code: 71250; co-pay typically required. Diagnostic CTA Code: 71275; co-pay typically required.
Follow up	
Lung-RADS 3	6-month follow-up CT; if unchanged or smaller > LCS LDCT 1 year after the follow-up CT.
Lung-RADS 4A	3-month follow-up CT; if unchanged or smaller \longrightarrow 6-month follow-up LDCT; Then, if unchanged or smaller \longrightarrow LCS LDCT 1 year after last follow-up CT.
Lung cancer diagnosis confirmed	Discharge from LCS; patient may return to screening after appropriate post-treatment surveillance.

Commonly Used Acronyms:

- ACR: American College of Radiology
- CMS: Centers for Medicare & Medicaid Services
- E&M: Evaluation and management
- IDTF: Independent Diagnostic Testing Facility
- LCS: Lung cancer screening
- LDCT: Low-dose chest CT
- NCCN: National Comprehensive Cancer Network (NCCN group 2 criteria = ages \geq 50, at least 20 pack-year and another risk factor)
- NLCRT: National Lung Cancer Roundtable

acr.org/lungresources | 1.800.227.5463 | 🗹 😭 🛅 🛅

ATTACHMENT C: BROCHURES

Contents

- Nevada Cancer Coalition Lung Screening Brochure, English and Spanish
- Eon Health Lung Screening Infographic
- Eon Health Lung Screening Booklet



What causes lung cancer?

Most lung cancers are caused by smoking tobacco, but exposure to these may also put you at risk:

- Other people's tobacco smoke, called secondhand smoke.
- Radon, an odorless, colorless gas that occurs naturally in the environment. You can test your home for radon with a kit from the Nevada Radon Education Program.
- Asbestos, which may be found in older homes.
- Diesel exhaust, such as from large trucks.
- E Chemical exposure.

Ready to quit smoking?

Quitting smoking is hard, but there's help available. The Nevada Tobacco Quitline has counselors ready to help at any time of day or night, and quit medication may be available.

Get help online or by phone:

Call 1-800-QUIT-NOW or visit https://nevada.quitlogix.org/ to get started.

You may also talk to your doctor about prescription medication or other tools to help you quit tobacco for good and improve your health.



Quitting is hard. Lung screening is easy.

If you smoke, or have quit smoking, you may be eligible for lung cancer screening. When found early, lung cancer is easier to treat and cure - thanks to recent treatment advances.

Let's find out if you qualify for lung screening.

Age 50-80 AND:

- A current smoker or quit in the last 15 years.
- Smoke or smoked what equals 20 "pack years."
- Do not have any signs or symptoms of lung cancer.

What's a pack year?

There are about 20 cigarettes in a normal pack. If you smoked a pack a day for 20 years, you have smoked 20 pack years. Visit ShouldIScreen.com for a pack year calculator.

of packs you smoked a day



of years you smoked

ff of pack years

What to Know About Lung Cancer Screening

During the screening you'll lie flat on an exam table with your arms over your head. The table will move through a tubelike low-dose computed tomography (LDCT) scanner to the starting position. Then, you will hold your breath for 5-10 seconds and the table will move through the machine again for the actual scan.

The scan will create an image of your lungs that doctors can use to look for signs of cancer, such as growths or lumps. The whole process takes about 30 minutes.

Take control and leave the "scanxiety" behind. Lung screening is about your health.



How to Get Screened

Talk to your doctor about your smoking history and ask for a referral for lung screening. Your doctor and insurance provider can help you find the nearest screening location and schedule an appointment. Medicare, VA and most commercial insurance providers cover lung screening. If you need help paying for screening, contact a ThriveNV navigator at ThriveNV.org.



cáncer de pulmón?

tabaco, pero la exposición a estos también puede ponerlo en riesgo: pulmón son causados por fumar La mayoría de los cánceres de

- personas, llamado humo de El humo de tabaco de otras segunda mano.
- un kit del Programa de Educación el medio ambiente. Puede probar Radón, un gas inodoro e incoloro que se produce naturalmente en su casa para detectar radón con sobre el Radón de Nevada ×
- encontrar en casas antiguas. X Asbestos, que se puede
- Escape de Diesel, como el de camiones grandes ×
- 🗷 Exposición a químicas.

por teléfono:

https://nevada.quitlogix.org/ Llame al 1-800-QUIT-NOW oara comenzar. o visite

También puede hablar con su médico sobre medicamentos recetados u otros recursos para ayudarlo a dejar el tabaco para siempre y mejorar su salud.



Dejar de fumar es difícil. <u>El examen de pulmón</u>

puede ser elegible para la detección Si usted fuma o ha dejado de fumar,

de tratar y curar, gracias a los recientes avances en cáncer de pulmón es más fácil <u>el tratamiento.</u> Cuando se detecta temprano, el

Averigüemos si califica para la detección del cáncer de pulmón.

La Edad 50-80 Y: Un fumador actual o dejado de fumar en los últimos 15 años.

- E Fumar o fumar lo que equivale a 20 "paquetes de años".
- No tienen ningún signo o síntoma de cáncer de pulmón.

¿Qué es un paquete por año?

Hay alrededor de 20 cigarrillos en un paquete normal. Si fumó un paquete al día durante 20 años, ha fumado 20 paquetes.

de paquetes que fumó al día

Visite ShouldIScreen.com para obtener una calculadora de paquete anual.

de paquetes

<u>de años</u>

扰 de años que fumó

Lo que debe saber sobre la detección del cáncer de pulmón

Durante la evaluación, usted se acostará en una mesa de examen con los brazos sobre la cabeza. La mesa se moverá a través de un escáner de tomografía computarizada de baja dosis (LDCT) en forma de tubo hasta la posición inicial. Luego, contendrá la respiración durante 5-10 segundos y la mesa se moverá a través de la máquina nuevamente para el escaneo real.

La exploración creará una imagen de sus pulmones que los médicos pueden usar para buscar signos de cáncer, como crecimientos o bultos. Todo el proceso dura unos 30 minutos.

ver con su salud. Toma el control y deja atrás La prueba de detección pulmonar tiene que la "ansiedad de escanear".

Cómo hacerse la prueba de detección

Hable con su médico a cerca de su historial de tabaquismo y solicite una derivación para un examen de pulmón. Su médico y proveedor de seguros pueden ayudarlo a encontrar el lugar de detección más cercano y programar una cita. Medicare, VA y la mayoría de los proveedores de seguros comerciales cubren los exámenes pulmonares. Si necesita ayuda para pagar la detección, comuníquese con un navegador de ThriveNV en ThriveNV.org

Lung Cancer Screening

Learn more about the importance of screening, who's at risk of developing lung cancer, and the benefits of early detection.

> Lung cancer is the second most common cancer in both men and women in the United States. **Each year, more people die of lung cancer** than of colorectal, breast, and prostate cancers combined.

> > 7%

BRFAST

22.4%

https://seer.cancer.gov/statfacts/

Providers Are Missing An Opportunity

8.8%

COLORECTAL



8 million Americans are currently at risk for lung cancer in the United States



Screening with annual LDCT can prevent **one death for every 250** at-risk adults who are screened.

5.5%

PROSTATI

https://www.lung.org/lung-health-diseases/lung-disease-lookup/lung-cancer/resource-library/lung-cancer-fact-sheet https://www.cancer.gov/types/lung/patient/lung-screening-pdg

Lung Cancer Screening



The Shared Decision Making Visit

To determine a patient's eligibility for lung cancer screening, a shared decision making visit is required to discuss current and past cigarette use, the benefits and risks of LDCT, and counseling of tobacco cessation. The provider can bill for this CT Lung Cancer Screening shared decision making visit using **screening code G0296.**

Insurance Coverage

Lung cancer screening with LDCT is covered by Medicare for patients 50–77 and by most commercial insurances plans for patients 50–80 at risk for lung cancer.

Early Detection Saves Lives

As providers, patients trust you to determine what's best for their health and well-being. Improving efforts to screen eligible patients gives you the best chance to provide the life-saving early detection that can find cancer and catch it before it spreads. The bottom line:



Perform annual LDCT screenings



Is Lung Cancer Screening Right For You?

Here's what you should know about this life-saving screening.

1 in 5 of all cancer deaths are lung cancer related. **1 in 16** Americans in their lifetime will be diagnosed with lung cancer.

> Learn More About Lung Cancer Screening



What is lung cancer screening?

Much like a mammogram or a colonoscopy, lung cancer screening is a regular preventive health check. If screening detects lung cancer at an early stage when it is small and before it has spread, it is more likely to be treated successfully, significantly increasing the patient 5-year survival rate.

A low-dose CT (LDCT) scan is the only screening method recommended for at-risk patients. The LDCT machine takes a 3D picture of your lungs and shows more detail than a standard chest X-ray. LDCT scan uses 75% less radiation than a regular CT scan and does not require any needles.



Screening with annual LDCT can prevent one death for every 250 at-risk adults who are screened.

Who should be screened for lung cancer?

LDCT screening is only recommended for individuals who are at-risk for lung cancer. You're considered at-risk and eligible for screening if you:

- Are 50 to 77 years old*
- Are currently smoking or have quit within the last 15 years
- Have a smoking history of ≥20 pack-years**

PACK average # of years yEARS packs per day X # of years smoked

If you meet the eligibility criteria, you should have a conversation with your doctor or healthcare provider about lung cancer screening.

Common risk factors for lung cancer include:

- Smoking
- Exposure to secondhand smoke
- Exposure to radon gas
- Exposure to asbestos, arsenic, and other carcinogens
- Having a personal or family history of lung cancer

If you have any of these risk factors, have a conversation with your doctor or healthcare provider about your concerns for lung cancer.

*Lung cancer screening with LDCT is covered by Medicare for patients 50–77 and by most commercial insurance plans for patients 50–80 at high risk for lung cancer.

**Number of cigarette packs smoked per day multiplied by the number of years a person has smoked.

Common misconceptions about lung cancer screening:

MYTH: The scans used in lung cancer screening expose you to dangerous radiation FACT: LDCT scans for lung cancer screening have about 75% less radiation than conventional CT

scans. A regular CT scan is associated with a very small risk of developing cancer—about 0.05%, or about 1 in 2,000.

MYTH: Lung cancer screening is time consuming FACT: The actual screening process takes around 15 minutes, and the results are usually available within 24 hours. Screening may require two appointments: the first appointment is a shared decision making visit to ensure you are eligible and to answer your questions, and the second appointment is for the screening itself. However, some locations only require one visit.

MYTH: If I quit smoking, I am no longer at risk and don't need to be screened

FACT: Current recommendations suggest lung cancer screening for not only current smokers, but also for former smokers who have quit less than 15 years ago.

MYTH: Lung cancer screening has a high rate of false positives, which can lead to unnecessary procedures FACT: All cancer screenings carry a risk of false positives, but having a false positive doesn't mean you'll necessarily need to have other, more invasive procedures.



If you have additional questions about lung cancer screening, be sure to talk to your provider.

MYTH: Lung cancer screening is still considered experimental and is not the standard of care FACT: Screening experts agree that LDCT is beneficial for the at-risk population of current and former smokers. Screening is recommended for these patients and is covered by Medicare, Medicaid, and most insurance companies.

What happens before, during, and after a lung cancer screening?

BEFORE YOUR SCREENING

You will meet with your provider to discuss the benefits and risks of screening. If you decide on screening, your provider will order the screening and refer you to a location that offers LDCT. Your provider's office may make an appointment for you, or you may need to contact the screening location to set up your appointment.

DURING YOUR SCREENING

2 You lie on your back on a table while pictures are taken of your lungs. You shouldn't need to change your clothes as long as they don't contain metal, and there are no medicines or needles required for the procedure.

AFTER YOUR SCREENING

³ A specialist will read your scan and someone from the screening location or your healthcare team will call you to discuss the result. If you have a negative result, you will continue with yearly screening. If you have a positive result, you may need additional scans or tests. Your healthcare provider will talk to you about the findings and what needs to happen next.

LDCT is quick, painless, and can save your life.



What should I ask my healthcare provider about lung cancer screening?

Here are a few questions you can ask your provider when you discuss yearly lung cancer screening:

- Is lung cancer screening recommended for me?
- · How do I know if my insurance covers LDCT screening?
- What are the benefits and risks of LDCT screening?
- How will I get the results of my LDCT scan?
- What tools are available to help me quit smoking?

ATTACHMENT D: SAMPLE RESULT LETTERS

Contents

- Result Letter Significant Finding
- o Result Letter General
- Result Letter Suspicious Finding
- Result Letter Suspicious/Very Suspicious Finding
- Result Letter Probable/Nodule Finding
- Result Letter Benign Nodules Finding
- Result Letter No Evidence of Cancer

RESULT LETTER (SIGNIFICANT FINDING)

Dear , RE: Your screening low-dose chest CT done on: Interpreted by: Report electronically available to:

Date:

We are writing to inform you that your recent lung screening CT shows nodules requiring follow-up at this time. However, there is an "incidental or additional" finding, which may require further evaluation. This does not necessarily mean there is a serious problem, but it should not be ignored. Your ordering provider will receive a copy of this CT report and you are encouraged to follow up with your practitioner.

It is recommended that you continue annual lung cancer screening every 12 months as long as you meet the criteria. Your next follow-up will be due on or after

Once we receive an order from your provider, you will be contacted by one of our lung screening staff members to schedule this exam.

Here are some other important points you should know:

- Your full low-dose chest CT report, including any minor observations, has been sent to your healthcare provider. Your exam report and images will be kept on file at part of your permanent record and are available for your continuing care.
- Although low-dose chest CT is very effective at finding lung cancer early, it cannot find all lung cancers. If you develop any new symptoms such as shortness of breath, chest pain, or coughing up blood, please call your doctor.
- Please keep in mind that good health involves quitting smoking. For help in quitting, please contact our health coaches at or call to register for smoking cessation classes.
- Screening does not obligate you to return to but we are happy to provide the service to you.

If you have any questions about this letter, please contact your healthcare provider. You may also contact the at between and , Monday through Friday.

Sincerely,

RESULT LETTER

Dear , RE: Your screening low-dose chest CT done on: Interpreted by: Report electronically available to:

Date:

We are writing to let you know that your recent lung screening CT shows nodules requiring follow-up at this time. It is recommended that you continue annual screening every 12 months as long as you meet the criteria. Your next follow will be due on or after .

Once we receive an order from your provider, you will be contacted by one of our lung screening staff members to schedule this exam.

Here are some other important points you should know:

- Your full low-dose chest CT report, including any minor observations, has been sent to your healthcare provider. Your exam report and images will be kept on file at as part of your permanent record and are available for your continuing care.
- Although low-dose chest CT is very effective at finding lung cancer early, it cannot find all lung cancers. If you develop any new symptoms such as shortness of breath, chest pain, or coughing up blood, please call your doctor.
- Please keep in mind that good health involves quitting smoking. For help in quitting, please contact our health coaches at or call to register for smoking cessation classes.

If you have any questions about this letter, please contact your healthcare provider. You may also contact the at between and , Monday through Friday.

Sincerely,



Name:	
Address:	
City:	
State:	Zip:

Dear:

A report of your results with the above recommendation(s) has been sent to your ordering health care provider. Please contact them as soon as possible to discuss these results and help facilitate next steps in your medical care.

Here are some other important points you should know.

- 1. Your full low-dose chest CT report, including any minor observations, has been sent to your ordering healthcare provider. Your exam report and images will be kept on file at Humboldt General Hospital as part of your permanent record and are available for your continuing care.
- 2. Although low-dose chest CT is very effective at finding lung cancer early, it cannot find all lung cancers. If you develop any new symptoms such as shortness of breath, chest pain, or coughing up blood, please call your doctor.
- 3. Please keep in mind that good health involves quitting smoking. For help quitting, please contact the Nevada Tobacco Quitline at 1-800-QUIT-NOW
- 4. Screening does not obligate you to return to Humboldt General Hospital, but we are happy to provide the service to you.

Sincerely,

Diagnostic Imaging Department



Name:	
Address:	
City:	
State:	Zip:

Dear:

A report of your results with the above recommendation(s) has been sent to your ordering health care provider. Please contact them as soon as possible to discuss these results and help facilitate next steps in your medical care.

Here are some other important points you should know.

- 1. Your full low-dose chest CT report, including any minor observations, has been sent to your ordering healthcare provider. Your exam report and images will be kept on file at Humboldt General Hospital as part of your permanent record and are available for your continuing care.
- 2. Although low-dose chest CT is very effective at finding lung cancer early, it cannot find all lung cancers. If you develop any new symptoms such as shortness of breath, chest pain, or coughing up blood, please call your doctor.
- 3. Please keep in mind that good health involves quitting smoking. For help quitting, please contact the Nevada Tobacco Quitline at 1-800-QUIT-NOW
- 4. Screening does not obligate you to return to Humboldt General Hospital, but we are happy to provide the service to you.

Sincerely,

Diagnostic Imaging Department



Name:	
Address:	
City:	
State:	Zip:

(FOLLOW-UP)

Dear: _____

We are writing to you about your recent lung screening performed on ______revealed a probable benign finding(s) or nodule(s) with a low likelihood of becoming clinically active cancer. It is recommended that you return for a follow-up LDCT in 6 months. Your next low dose CT will be due on or after ______.

A report of your results with the above recommendations has been sent to your ordering health care provider so they may help facilitate this important follow-up exam.

If you so choose to utilize our facility for your follow-up care, once we receive an order from your provider, you will be contacted by one of our scheduling staff to schedule.

Here are some other important points you should know.

- 1. Your full low-dose chest CT report, including any minor observations, has been sent to your ordering healthcare provider. Your exam report and images will be kept on file at Humboldt General Hospital as part of your permanent record and are available for your continuing care.
- 2. Although low-dose chest CT is very effective at finding lung cancer early, it cannot find all lung cancers. If you develop any new symptoms such as shortness of breath, chest pain, or coughing up blood, please call your doctor.
- 3. Please keep in mind that good health involves quitting smoking. For help quitting, please contact the Nevada Tobacco Quitline at 1-800-QUIT-NOW

Sincerely,

Diagnostic Imaging Department



Name:		
Address:		
City:		
State:	Zip:	

Dear: _____

We are writing to you about your recent lung screening CT performed on _______ showed nodule(s) that are benign (non-cancerous) in appearance or behavior. While this finding on your exam is not suspicious for cancer it should not be ignored and should be discussed further with your ordering provider for the next steps.

It is recommended that you return for an annual low dose CT in 12 months. Your ordering healthcare provider can help facilitate this important yearly screening exam. Your next low dose CT is recommended on or after ______.

Once we receive an order from your provider, you will be contacted by one of our scheduling staff to schedule.

Here are some other important points you should know.

- 1. Your full low-dose chest CT report, including any minor observations, has been sent to your ordering healthcare provider. Your exam report and images will be kept on file at Humboldt General Hospital as part of your permanent record and are available for your continuing care.
- 2. Although low-dose chest CT is very effective at finding lung cancer early, it cannot find all lung cancers. If you develop any new symptoms such as shortness of breath, chest pain, or coughing up blood, please call your doctor.
- 3. Please keep in mind that good health involves quitting smoking. For help quitting, please contact the Nevada Tobacco Quitline at 1-800-QUIT-NOW
- 4. Screening does not obligate you to return to Humboldt General Hospital, but we are happy to provide the service to you.

Sincerely,

Diagnostic Imaging Department



Name:	
Address:	
City:	
State:	Zip:

Dear: _____

We are writing to you about your recent lung screening performed on _______ shows no evidence of cancer. It is recommended that you continue annual screening every 12 months as long as you meet the criteria. Your next screening CT will be due on or after ______.

Once we receive an order from your provider, you will be contacted by one of our scheduling staff to schedule.

Here are some other important points you should know.

- Your full low-dose chest CT report, including any minor observations, has been sent to your ordering healthcare provider. Your exam report and images will be kept on file at Humboldt General Hospital as part of your permanent record and are available for your continuing care.
- 2. Although low-dose chest CT is very effective at finding lung cancer early, it cannot find all lung cancers. If you develop any new symptoms such as shortness of breath, chest pain, or coughing up blood, please call your doctor.
- 3. Please keep in mind that good health involves quitting smoking. For help quitting, please contact the Nevada Tobacco Quitline at 1-800-QUIT-NOW

Sincerely,

Diagnostic Imaging Department