Lung Health and Low Dose CT for Early Detection

Dr. Matthew Winkleman, MD

SIH Medical Group – Primary Care Group Harrisburg

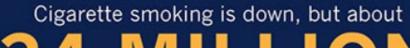
November 2, 2021



Objectives:

- Discuss tobacco use, lung cancer screening, the burden of tobacco use and lung cancer in Southern Illinois.
- Encourage family practice providers to screen for lung cancer and encourage tobacco cessation and patients to speak with their providers regarding screening eligibility.
- Provide information on shared decision-making requirements for referring patients for low-dose CT Lung Cancer Screening.
- Provide an overview of the USPSTF Lung Cancer Screening Recommendations.
- Share information and resources from the I-STEP Trial.

Cigarette Smoking Among Adults in the US



34 MILLION

American adults still smoke

Cigarette smoking remains high among certain groups





















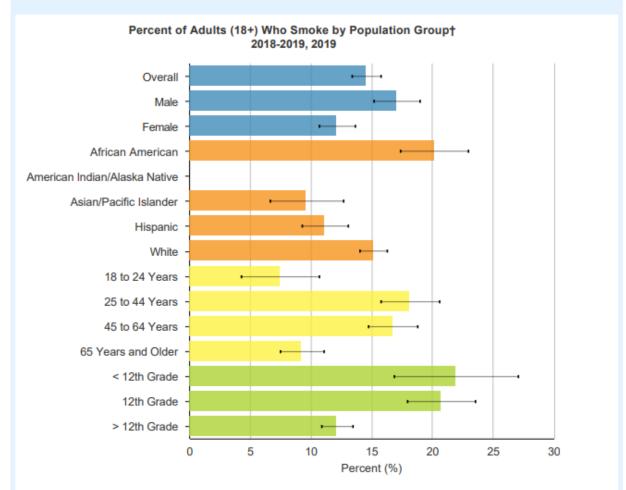
Illinois Adult Tobacco use







Tobacco Use - Cigarette (Adult)

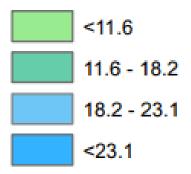


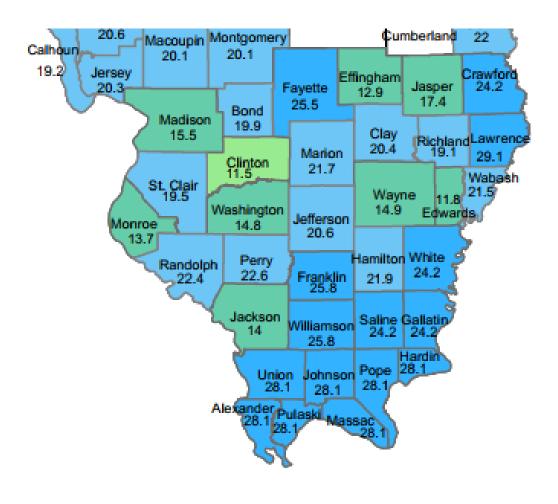
† Estimates for education are based on adults aged 20 years and older. Estimates for racial/ethnic groups are based on combined data for two years.

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Prevalence of Adults Who Smoke by County, Illinois 2015-2018

Percent of Adult Smokers





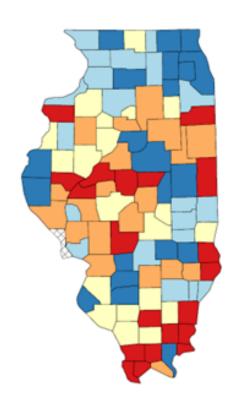
Developed 01/28/2019

Lung Cancer: National Data

- The most important risk factor for lung cancer is smoking.^{2,3} Smoking is estimated to account for about 90% of all lung cancer cases,² with a relative risk of lung cancer approximately 20-fold higher in smokers than in nonsmokers.³ Increasing age is also a risk factor for lung cancer. The median age of diagnosis of lung cancer is 70 years.^{4,5}
- Lung cancer has a generally poor prognosis, with an overall 5-year survival rate of 20.5%. However, early-stage lung cancer has a better prognosis and is more amenable to treatment.

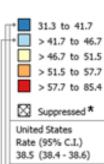
Lung Cancer: Local Data

Death Rates for Illinois by County Lung & Bronchus, 2014 - 2018 All Races (includes Hispanic), Both Sexes, All Ages



Age-Adjusted
Annual Death Rate
(Deaths per 100,000)

Quantile Interval



Illinois Rate (95% C.I.) 41.1 (40.7 - 41.6)

Healthy People 2020 Goal C-2 45.5

Notes

State Cancer Registries may provide more current or more local data.

Data presented on the State Cancer Profiles Web Site may differ from statistics reported by the State Cancer Registries (for more information).

Source: Death data provided by the National Vital Statistics System public use data file. Death rates calculated by the National Cancer Institute using SEER*Stat. Death rates (deaths per 100,000 population per year) are age-adjusted to the 2000 US standard population (19 age groups: <1, 1-4, 5-9, ..., 80-84, 85+). The Healthy People 2020 goals are based on rates adjusted using different methods but the differences should be minimal. Population counts for denominators are based on the Census 1969-2017 US Population Data File as modified by NCI.

Data have been suppressed to ensure confidentiality and stability of rate estimates. Data is currently being suppressed if there are fewer than 16 counts for the time period. Healthy People 2020 Goal C-2: Reduce the lung cancer death rate to 45.5.

Healthy People 2020 Objectives provided by the Centers for Disease Control and Prevention .

Data for the United States does not include data from Puerto Rico

Age-Adjusted Annual Death Rate due to Cancer of the Lung and Bronchus, 2014-2018

Comparison: U.S. Counties (Healthy People 2030 Goal 25.1)

<u>Location</u>	<u>Status</u>	deaths/100,000
US	falling	38.5
Illinois	falling	41.1
Franklin	stable	65.4
Gallatin	stable	76.6
Hardin	stable	82.0
Jackson	stable	47.8
Johnson	stable	58.6
Perry	falling	48.2
Pope	**	40.7
Saline	falling	60.6
Union	stable	59.8
White	stable	69.2
Williamson	stable	49.7

Red indicates counties are doing worse than Illinois

Importance of Smoking Cessation

- Quitting is the single best thing a patient/client can do for their health.
- Quitting lowers the risk of lung cancer and many other cancers and diseases, too.
- And the benefits grow over time.



cancer.org | 1.800.227.2345

Health Benefits of Quitting Smoking Over Time

It's never too late to quit using tobacco. The sooner you quit, the more you can reduce your chances of getting cancer and other diseases.

Within minutes of smoking your last cigarette, your body begins to recover:

20 minutes after quitting



Your heart rate and blood pressure drop.

A few days after quitting



The carbon monoxide level in your blood drops to normal.

2 weeks to 3 months after quitting



Your circulation improves and your lung function increases.

1 to 12 months after Coughing and shortness of breath decrease. Tiny hair-like structures (called *cilia*) that move mucus out of the lungs start

Smoking Cessation: How You Can Assist Your Patients/Clients

- Motivational Interviewing
 - Ask, Advise, Assess, Assist and Arrange

Evidence-Based Medication

Evidence-Based Medications



Two Most Effective Medications

- Combination Nicotine Replacement therapy: Nicotine patch + lozenge or gum
- 2. Varenicline

Nicotine replacement

>10 Cigarettes per day start with 21mg q24h <10 Cigarettes per day start with 14 mg q24h apply patch to clean skin, change patch every 24 hours

Gum/Lozenge dose:

Smoking within 30 min of waking, use 4 mg q1-2h Smoking after 30 min of waking, use 2mg q1-2h Encourage 6-8/day, safe up to 20/day

Gum use method: "Chew and park" method (see diagram)

Lozenge dissolving method:

Place lozenge in your mouth, occasionally moving from side-to-side. Allow lozenge to slowly dissolve, do not chew or swallow the lozenge. Do not use more than 1 lozenge at a time.

Contraindication: Allergy

Precautions: Pregnancy, Recent serious cardiovascular event (e.g.

"Chew and Park Method"

Each piece of Nicotine gum should be chewed slowly and Intermittently for about 30 minutes















Varenicline

Starter pack (1 week up titration, then 1mg bid) for the 1st month Continuation pack (1mg bid) after the 1st month

Contraindication: Allergy

Precautions: Pregnancy, Black box warning lifted (No increase in serious psychiatric or cardiovascular events)

Bupropion SR (Wellbutrin SR)

Titration 150mg SR qd day 1-3 then 150mg SR bid

Contraindication: Allergy, seizure, anorexia, MAO-Inhibitor

Precautions: Pregnancy, Black box warning lifted (No increase in suicidal thinking when used in smoking cessation)

Check drug-drug interactions in Epic prior to submitting order.

V2.9/23/2021. Information adapted from materials from the NCCN quidelines, Southern Illinois Health, and SmokeFree.gov

Smoking Cessation: How You Can Assist Your Patients/Clients

- Referring to Resources
 - Illinois Tobacco Quitline (1-866-QUIT-YES)
 - Text "SIH" to 47848
 - Apps Quit Guide and Quit Smoking
 - Virtual or in Person classes –
 SIH offers "Courage to Quit"



CALL 1-800-QUIT-YES (1-866-784-8937)

Free Patches
(Eligible participants)
Free access to trained coaches

DOWNLOAD APPS smokefree.gov/apps

"Message and data rates may apply"
Get 24/7 support, free games
and challenges





DOWNLOAD FREE from Apple App store or Google Play

TEXT "SIH" to 47848

"Message and data rates may apply"
Get 24/7 Support
Text Crave, Mood, or Slip
for free advice

VIRTUAL CLASSES



3-6 Sessions with SIH leaders
Register by calling
618-457-5200, extension 67848
https://www.hsidn.org/couragetoguit

ASK YOUR HEALTHCARE PROVIDER ABOUT HOW TO QUIT OR CUT BACK ON SMOKING

Virtual Classes

Free

Three sessions

Educational materials mailed to participant's home

Open to anyone

Promote Illinois Tobacco Quitline to patients



Where:

Virtual Classes, offered online.

Who Can Attend:

For Southern Illinois Residents Only

Cost: Free

Respiratory Health Association Certified Leaders:

Angie Bailey Fanta Saidou Sandra Schwartz

Quitting smoking can:

- » Save money
- » Make breathing easier
- » Make a positive impact on others







It takes courage to quit

Register Now by Calling 618.457.5200 ext.67837

2021 Class Schedule

All classes on Monday 5:00p.m.-6:30p.m. First Session 5:00 - 6:00 Second and Third Session 3 Sessions total

> April 12,19,26 July 12,19,26 October 11, 18, 25

Please plan on attending all three consecutive sessions in one month.

> For more information visit: www.hsidn.org/couragetoquit

-

Annual Lung Cancer Screenings with Low-Dose CT:

For eligible smokers and former smokers, annual lung cancer screening with Low-dose CT (LDCT) can lower lung cancer mortality by up to 20 percent and total mortality by 7 percent.

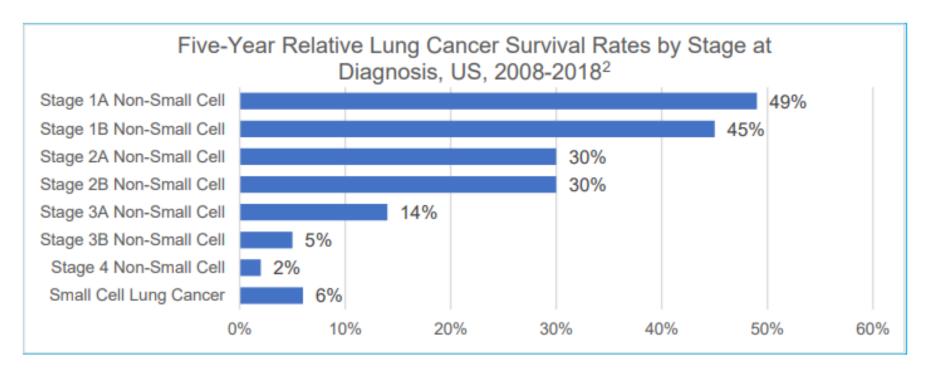
Screening is recommended only for adults who have no symptoms but are at high risk.

- If a patient meet eligibility criteria for screening, yearly low-dose CT tests are covered by Medicare and most private insurance
- Patients should speak with their healthcare provider to verify coverage.



Five-Year Survival Rates by Stage at Diagnosis

As illustrated in the table below, five-year survival rates of patients diagnosed with Stage 1 non-small cell lung cancer are near 50 percent. In contrast, patients with Stage 4 non-small cell lung cancer on average have a five-year survival rate of just 2 percent.





SIH Version 2 | 2.9.21



LUNG CANCER SCREENING

IF YOU ARE 55 TO 77 YEARS OLD AND SMOKE OR USED TO SMOKE:

TALK WITH A HEALTH CARE PROVIDER

YEARLY LUNG CANCER SCREENING

Screening with low-dose CT can cut the risk of dying of lung cancer by finding cancer when it is more treatable.

WHO IS ELIGIBLE FOR SCREENING WITH LOW-DOSE CT?

- 55 to 77 years old
- Current cigarette smoker or quit in last
 15 years
- Heavy smoker at least 1 pack/day for 30 years, or 2 packs/day for 15 years

Lung cancer screening has both risks and benefits. Talk with a health care provider to see if it is right for you.

SCREENING IS AVAILABLE AT MULTIPLE SIH LOCATIONS.

For more information, contact: Kari Winters, LPN, Lung Patient Navigator, kari.winters@sih.net, 618-529-0520 ext 66748



I-STEP is a joint research endeavor between Washington University School of Medicine and BJC Collaborative SIH Version 1 | 9.5.19

Dr. Matthew Winkleman Southern Illinois Medical Services

QUITTING STILL COUNTS

Getting smoke-free – and staying smoke-free – is one of the best things you can do for your health, even if you get screened.

For help quitting, talk with your provider and: Visit SmokeFree.gov Call the Illinois Quitline, 1-866-QUIT-YES

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Impact of Low-Dose CT (LDCT) Screening on Improving Survival Rates

In heavy smokers and ex-smokers, LDCT has been shown to lower the risk of lung cancer mortality by up to 20 percent compared to chest x-ray.^{3,4}

One of the few studies on the long-term impact of LDCT yielded promising data. This well-regarded study, which included 31,567 asymptomatic patients at risk for lung cancer screened with LDCT from 1993-2005, focused on the survival of patients with Stage 1 lung cancer specifically.⁵

- The screenings resulted in a lung cancer diagnosis of 484 participants (1.5 percent of all patients screened), of which 412 (85 percent) had Stage 1 lung cancer. The estimated 10-year survival rate of these participants with Stage 1 lung cancer detected by LDCT was 88 percent.
- Among the 302 participants with Stage 1 cancer who underwent surgical resection within 1 month of diagnosis, the 10-year survival rate was 92 percent.



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REVISED USPSTF RECOMMENDATION FOR LUNG CANCER SCREENING GUIDELINES: WHAT IS CHANGING AND WHAT IT MEANS FOR PROVIDERS TODAY

- On March 23, 2021, the U.S. Preventive Services Task Force (USPSTF) issued a revised recommendation for annual screening for lung cancer with low-dose computed tomography (LDCT). Until the Centers for Medicare & Medicaid Services (CMS) adopts the revised guidelines, providers may encounter challenges obtaining insurance coverage for patients who are a part of the newly eligible population.
- It is anticipated that CMS will adopt the USPSTF's recommendation, and coverage for lung screening with LDCT according to the new guidelines will begin in January 2022. Once CMS adopts the new guidelines, private insurers will follow. For now, it is advised that providers continue to follow the old lung cancer screening guidelines.

What is changing?

The revised recommendation from USPSTF expands the age range of eligible patients to 50 to 80 years (previously 55 to 80 years, though CMS only reimburses up to age 77) and reduces the pack-year history to 20 pack-years of smoking (previously 30 pack-years). USPSTF advises that 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.

Old USPSTF Lung Cancer Screening Guidelines ²		Newly Recommended USPSTF Lung Cancer Screening Guidelines ¹	
4	55 to 80 years old (though CMS only reimburses up to age 77)3	✓	50 to 80 years old
V	Currently smoke cigarettes – or quit in last 15 years	✓	Currently smoke cigarettes – or quit in last 15 years
√	30-pack years or more history (see the Pack-Years/Eligibility Calculator worksheet in the I-STEP Toolkit or visit www.smokingpackyears.com)	✓	20-pack years or more history (see the Pack-Years/Eligibility Calculator worksheet in the I-STEP Toolkit or visit www.smokingpackyears.com)
1	Asymptomatic (No signs or symptoms of lung cancer, e.g., cough, chest pain, hoarseness, hemoptysis, or dyspnea)	✓	Asymptomatic (No signs or symptoms of lung cancer, e.g., cough, chest pain, hoarseness, hemoptysis, or dyspnea)
✓	Have not had a screening or diagnostic CT in the last 12 months	✓	Have not had a screening or diagnostic CT in the last 12 months



How will the number of eligible patients under the new guidelines be impacted?

- The new guidelines will **nearly double the eligible population** for lung cancer screening with LDCT, including **more African-Americans and women**. Although African-Americans and women tend to smoke less heavily than white males, they also develop lung cancer earlier and from less tobacco exposure than do white men.
- Screening rates under the old guidelines are very low in spite of demonstrated survival benefits. Nationally, it is estimated that only 4% to 12.5% of eligible patients are currently getting screened.^{5,6} It is imperative that primary care providers discuss lung cancer screening with eligible patients, especially in anticipation of CMS' adoption of the expanded screening guidelines.

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What if a patient falls outside of the old screening guidelines but you think they may benefit from lung screening?

• If you have a patient who you think would benefit from lung screening but falls outside of the old guidelines, you are encouraged to **contact your local lung screening navigator** as they may be able to assist with obtaining prior authorization. Some insurers have approved of lung screenings for patients that fall outside of the guidelines.

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Master Version 1 | 3.23.21

Lung Cancer Screening: Asymptomatic

No signs or symptoms of lung cancer

No cough

No chest pain

No hoarseness

No hemoptysis (coughing up blood)

No dyspnea (difficult or labored breathing)

LUNG CANCER SCREENING

Calculating "Pack Years"

- A "pack year" is calculated as the number of packs per days multiplied by years.
- For example, someone who smoked a half pack a day for 10 years, then increased to a pack a day for 10 years, and then reduced to a half pack a day for an additional 10 years would have a cumulative 20 pack years ((½ ppd x 10 years) + (1 ppd x 10 years) + (½ ppd x 10 years))=(5 pack years + 10 pack years + 5 pack years).
- Visit <u>www.smokingpackyears.com</u> to estimate pack years.



SMOKING PACK-YEARS CALCULATOR

Use this tool to estimate pack-years smoking history, which is an eligibility requirement for annual lung cancer screening with low-dose CT (LDCT)

Pack-Years

Number of pack-years smoked. Falling in orange

is an indication of eligibility

for LDCT screening (≥30

pack years)

25 20

Years

Number of years smoked

50

40

30

25

20

15

12

10

9 8

6

5

4

3

2

INSTRUCTIONS

Connect a straight line from the "Cigarettes" column to the "Years" column. The point where the line crosses the "Pack-Years" column is an estimate of pack-years history.

If number of cigarettes smoked per day has varied significantly over time, estimate pack-years for each period and add together for total pack-years.

Pack-years ≥ 30 is an indication for screening referral, if other eligibility criteria are met.

Eligibility criteria for LDCT

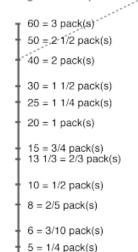
- 55 to 77 years old
- · Currently smokes cigarettes or quit in last 15 years
- · 30-pack years or more history (Tool: smokingpackyears.com)
- Asymptomatic (No signs or symptoms of lung cancer, e.g., cough, chest pain, hoarseness, coughing up blood, or shortness of breath)
- · Have not had a screening or diagnostic CT scan in the last 12 months

SIH LUNG SCREENING AND

System Director of Community Health, angie.bailey@sih.net, 618-457-5200 ext 67834

Cigarettes

Number of cigarettes smoked per day on average. 20 cigarettes = 1 pack



4 = 1/5 pack(s)

To calculate pack-years online: Smokingpackyears.com

For help quitting: Call 1-866-QUIT-YES or visit SmokeFree.gov

Notes:

Pack-years =

SMOKING CESSATION CONTACTS

Kari Winters, LPN, kari.winters@sih.net, 618-529-0520 ext 66748

Angie Bailey, MPH, M.S.Ed, CHES,

SIH Draft 1 | 8.27.19



LUNG CANCER SCREENING: BENEFITS AND RISKS

Benefits of LDCT Scan

- In the National Lung Screening Trial performed by the National Institutes of Health, the results indicated a 20% reduction in lung cancer mortality and a 6.9% decrease in all-cause deaths when using a low-dose CT scan for screening compared to chest x-rays.
- Screening prior to the presentation of symptoms can help find cancer at an earlier stage, thereby increasing the amount of treatment options available (including non-surgical options) as well as improving the efficacy of treatments provided. Five-year survival rates are near 50% for non-small cell lung cancer and 30% for Stage 2 non-small cell lung cancer per the American Cancer Society and SEER Cancer Statistics Review.
- Low-dose CT scans are fast, painless and noninvasive.

Risks of LDCT Scan

- False positive when a test appears to be abnormal but no lung cancer is found. In the National Lung Screening Trial performed by the National Institutes of Health, 24.2% had positive findings; 96.4% of those were false positives. A false positive test result is usually followed by more tests, which also include risks and may cause anxiety for the patient.
- False negative when a test appears to be normal even when lung cancer is present.
- Over-diagnosis sometimes screening can identify slowgrowing cancers that would not lead to illness or death.
- Exposure to radiation LDCT uses about 25% of the amount of radiation in a regular CT scan.

LUNG CANCER SCREENING: SHARED DECISION-MAKING CONVERSATION

- Must be held between Medical Provider and patient.
- Must include the following 4 items in the discussion:
 - 1 Determination of beneficiary eligibility including:
 - age,
 - presence of signs or symptoms of lung cancer,
 - a specific calculation of cigarette smoking pack-years;
 - and, if former smoker, the number of years since quitting.
 - 2 Shared decision-making with at least one decision aid;
 - discuss the benefits and harms of screening, follow-up diagnostic testing, over-diagnosis, false positive rate and total radiation exposure.

LUNG CANCER SCREENING: SHARED DECISION-MAKING CONVERSATION, Continued

- 3 Counsel on the importance of adherence to annual lung cancer low-dose CT screening, impact of comorbidities and ability or willingness to undergo diagnosis and treatment.
- 4 a If a <u>former</u> smoker, counsel on the importance of cigarette smoking abstinence;
- 4 b If a <u>current</u> smoker, counsel on the importance of smoking cessation coupled with the appropriate smoking cessation information.

Shared Decision-Making Resources:

AHRQ - https://bit.ly/2yEWCSK

SIH's I-STEP Toolkit - https://www.livebinders.com/b/2662745 Access code is 2020.



SIH Version 2 | 2.9.21

A joint research endeavor between Washington University School of Medicine and BJC Collaborative

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BILLING CODES for Shared Decision-Making Appointments and LDCT Screenings*

- *Note These CPT codes do <u>NOT</u> apply to physicians at rural health clinics. Rather, these services are included within E&M codes.
- **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)
- **G0297:** Low-dose CT scan (LDCT) for lung cancer screening. In additional to the HCPCS code, these services must be billed with ICD-10 diagnosis code Z87.891 (personal history of nicotine dependence, former smoker) or **F17.210** (current smoker, nicotine dependence). Note: Tobacco use is insufficient to recommend LDCT screening. Heavy smoking and nicotine dependence are required to meet medical necessity.



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I-STEP Trial: Increasing Screening Through Engaging Primary Care Providers

- The I-STEP Trial is the first joint research endeavor within BJC Collaborative (BJCC).
- It is a Non-Therapeutic Implementation Study designed by Washington University School of Medicine to:
 - Study important factors which help advance the understanding of cancer and its impact.
 - Examine how we can take guidelines (lung cancer screening) and move them into practice to most effectively reach the patients at-risk and improve population health.



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I-STEP Trial: Background

- Participating BJCC Member Health Systems
- Six of the eight health systems affiliated with BJCC are participating in I-STEP.
- The participating systems include:
 - BJC HealthCare's Barnes-Jewish St. Peters Hospital (St. Peters, MO)
 - Cox Health (Springfield, MO)
 - Decatur Memorial Hospital (Decatur, IL)
 - Memorial Health System (Springfield, IL)
 - Southern Illinois Healthcare (Carbondale, IL)
 - Sarah Bush Lincoln Health System (Mattoon, IL)



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I-STEP Trial: Goal

Through the development and dissemination of a PCP toolkit, I-STEP aims to assist primary care providers in setting up simple, low-cost office-based systems to help improve performance in the five key steps in implementing referrals for low-dose CT (LDCT) lung cancer screening:

- 1. Educate patients about lung cancer screening
- 2. Identify patients who are eligible for screening
- 3. Enable and monitor patient assessment, cessation referral, referral for LDCT screening and completion of lung screening, and adherence to smoking cessation/pharmaceutical therapies
- 4. Notify patients of test results
- 5. Document patient test results and any follow-up as needed

I-STEP Trial: The Intervention



Preparation Phase:

- Develop Toolkit
- Identify practices to engage
- Train staff

Intervention Phase:

- Visit practices assess current state, share Toolkit
- Reinforcement visits and outreach to sustain referrals

HOW WE APPEALED TO OUR PROVIDERS

• SIH reached out to the practice managers at the facilities to set up a "lunch and learn" with the providers and staff who would be rooming patients

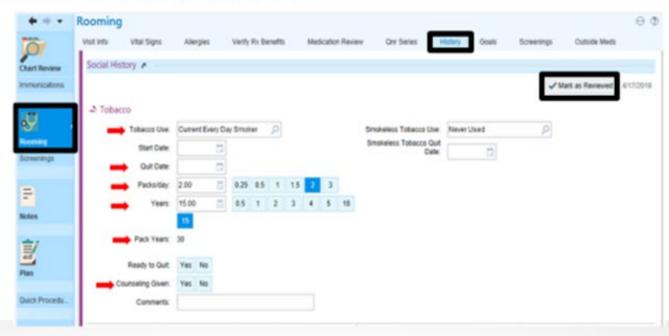
- At least two binders for the nursing staff (depending on size of practice) given for reference.
 COVID-19 Statistics | IDPH (illinois.gov)
- SIH provided the pamphlets, brochures, pocket cards, and posters to the practices.

SIH included a laminated copy of the informational sheet for each patient room



HOW WE APPEALED TO OUR PROVIDERS – THE EPIC TOOLKIT

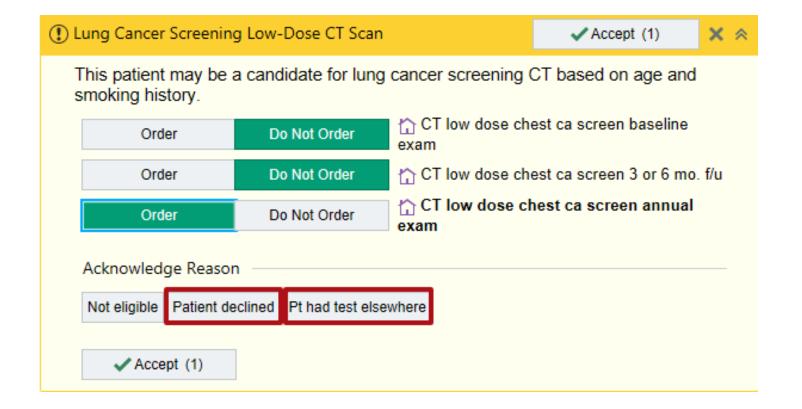
- Our greatest success The EPIC Toolkit
- Dana West worked with our IT/EPIC Analyst to trigger a BPA (Best Practice Advisory) in EPIC if a
 patient meets the criteria to have a LDCT





HOW WE APPEALED TO OUR PROVIDERS - THE EPIC TOOLKIT (CONTINUED)

If a patient qualifies for a LDCT based on the information pulled from their FPIC chart and the information entered by the staff rooming the patient, the LDCT can be ordered from the BPA





35

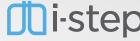
HOW WE APPEALED TO OUR PROVIDERS – THE EPIC TOOLKIT (CONTINUED)

• The EPIC Toolkit allows providers to stay within their window for appointment time

The toolkit allows for shared decision making to be documented while ordering the LDCT

Once ordered the LDCT will be reflected in the Health Maintenance Tab

The frequency of the LDCT can me modified by the PCP, if recommended by the LungRads category



HOW WE APPEALED TO OUR PROVIDERS – OVERVIEW



Received support from Senior Administration



Provided a "lunch and learn" for providers



Trained rooming staff



Provided binders and tools for providers and staff



Provided follow up and contact information for research staff administering i-step



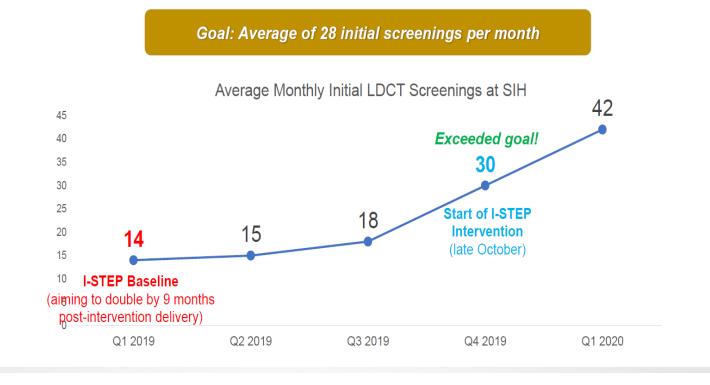
Provided practice managers with monthly reports on practice ordering volumes



LESSONS LEARNED

- Find ways to keep providers engaged
 - If providers find the LDCT screening valuable to their patients and practice, you will succeed
- Provide constant support and resources for providers
 - (e.g. scheduling)
- At times, the primary care providers will move at a faster pace than the other departments
 - (e.g. interventional radiology and pulmonology)

GOAL AND PERFORMANCE TO-DATE – AVERAGE MONTHLY INITIAL SCREENINGS: SOUTHERN ILLINOIS HEALTHCARE





References:

- I-STEP Toolkit: SIH
- Non-Small Cell Lung Cancer Treatment (PDQ®)—Health Professional Version. National Cancer Institute. Updated November 18, 2020. Accessed January 15, 2021. https://www.cancer.gov/types/lung/hp/non-small-cell-lung-treatment-pdq
- Cancer Stat Facts: lung and bronchus cancer. National Cancer Institute. Accessed January 15, 2021. https://seer.cancer.gov/statfacts/html/lungb.html
- Alberg AJ, Brock MV, Ford JG, et al. Epidemiology of lung cancer: diagnosis and management of lung cancer, 3rd ed: American College of Chest Physicians evidence-based clinical practice guidelines. *Chest.* 2013;143(5 suppl):e1S-e29S.
- Samet JM. Health benefits of smoking cessation. Clin Chest Med. 1991;12(4):669-679. Medline:1747986
- Key statistics for lung cancer. American Cancer Society. Accessed January 15, 2021. http://www.cancer.org/cancer/lung-cancer/about/key-statistics.html
- American Cancer Society, Cancer Facts & Figures 2019, https://www.cancer.org/content/dam/cancer-org/research/cancerfacts-and-statistics/annual-cancer-facts-and-figures/2019/cancer-facts-and-figures-2019.pdf
- Noone AM, Howlader N, Krapcho M, et al. (eds). SEER Cancer Statistics Review, 1975-2015, National Cancer Institute, Bethesda, MD, http://seer.cancer.gov/ as referenced in American Cancer Society, Cancer Facts & Figures 2019.
- Pinsky, P. F., Church, T. R., Izmirlian, G. & Kramer, B. S. The National Lung Screening Trial: results stratified by demographics, smoking history, and lung cancer histology. Cancer 119, 3976-3983, doi:10.1002/cncr.28326 (2013)
- National Lung Screening Trial Research, T. et al. Reduced lung-cancer mortality with low-dose computed tomographic screening. N Engl J Med 365, 395-409, doi:10.1056/NEJMoa1102873 (2011).
- The International Early Lung Cancer Action Program Investigators. Survival of Patients with Stage I Lung Cancer Detected on CT Screening. N Engl J Med 335, 1763-1771, doi: 10.1056/NEJMoa060476 (2006).
- Jemal, A. & Fedewa, S. A. Lung Cancer Screening With Low-Dose Computed Tomography in the United States-2010 to 2015.
- JAMA Oncol 3, 1278-1281, doi:10.1001/jamaoncol.2016.6416 (2017)
- CDC Lung Cancer Information https://www.cdc.gov/cancer/lung/basic info/screening.htm
- Updated Screening Recommendations as of 03/09/2021 https://www.uspreventiveservicestaskforce.org/uspstf/recommendation/lung-cancer-screening
- Patient Quiz for Eligibility <u>www.screenyourlungs.org</u>
- Medicare Coverage for LDCT as of 9/17/21 https://www.cms.gov/medicare-coverage-
- American Lung Association Lung Cancer Screening & Facility Finder https://www.lung.org/lung-health-diseases/lung-disease-lookup/lung-cancer/saved-by-the-scan

Special Thank You

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