IN PARTNERSHIP WITH



The LungAmbition Alliance

CHEAT SHEET for health care providers

Incidental Pulmonary Nodules (IPN)

Hardwire IPN findings and management to support lung cancer detection efforts

Published - January 2022 • 5-min read

Key takeaways

- Incidental pulmonary nodules are abnormal growths in the lung that are found unintentionally and unrelated to the condition that prompted the exam
- Proper management of IPNs may serve as another tool to detect lung cancer, which is particularly important as lung cancer screening rates remain low
- Without consistent guidelines in place, patients with IPNs may not receive necessary follow-up care. Provider organizations should develop a comprehensive and standardized process to identify, document, and follow up on IPNs



IN PARTNERSHIP WITH

The LungAmbition Alliance

What are they?

Incidental findings are abnormalities uncovered unintentionally and often unrelated to the condition that prompted an exam.

Pulmonary nodules are abnormal growths that form in a lung. They can be identified on imaging scans, such as X-ray and CT¹ scans. Most pulmonary nodules are benign, but some can indicate the presence of lung cancer.

Appropriate detection and follow-up of incidental pulmonary nodule findings may:

- Improve patient outcomes
- Reduce cost of care
- Manage patients' risk profiles
- Increase appropriateness of care

¹computerized tomography





The

LungAmbition

Why do they matter?

In 2021, lung cancer was the leading cause of cancer death for men and women in the US. That same year an estimated 12% of all new cancer cases were lung cancer. From 2011-2017, the average five-year survival rate for patients diagnosed with lung cancer was just 22%.

Early lung cancer detection may reduce mortality rates in eligible screening patients by up to 13% – however, only 14% of eligible patients receive the screening exam. Additionally, only patients over 50 years old with significant smoking histories are eligible for the screening exam. While smoking remains the highest risk factor for lung cancer, about 12% of Americans diagnosed with lung cancer have never smoked.

Incidental pulmonary nodule findings may allow more patients with lung cancer to be diagnosed at earlier stages. Detecting lung cancer at an early stage may improve prognosis. But significant barriers exist for proper management, including:

- Providers inconsistently document findings and recommended patient followup
- Communication break downs between providers, such as radiologists and the ordering physician, or between providers and patients themselves
- Patients struggle to understand the findings and their follow-up care needs
- Provider organizations rely on onerous follow-up procedures that confuse patients and their primary care providers

Due to these challenges, patients with lung nodules may fall through the cracks and not receive necessary care.



> The **LungAmbition** Alliance

How do they work?

Sample patient journey

Patient visits emergency department (ED) after a fall where the ED provider orders a chest X-ray to check for fractured ribs

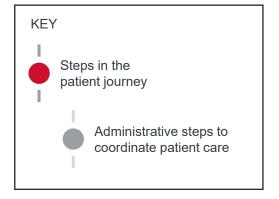
The radiologist **identifies a pulmonary nodule** while reading the chest X-ray and properly **documents the finding in the report**

> The radiology team sends the report both to the ordering provider and the lung navigator team

The ED provider shares all results with the patient and **clearly communicates** the recommended follow-up protocols

The hospital shares the patient's results and recommended follow-up with their primary care provider

With support from the lung navigator, the patient schedules and **receives necessary follow-up care**





. IN PARTNERSHIP WITH

The

LungAmbition

How do they work?

Widely accepted guidelines, such as those from the Fleischner Society or American College of Radiology, detail appropriate clinical management of individual patients. Overall, incidental pulmonary nodule findings and management include three core components:

Identification and documentation

According to the Fleischner Society guidelines, the size and shape of a pulmonary nodule are the two primary determinants of cancer risk. Once a nodule that meets the minimum requirements is identified, interpreting providers, often radiologists, should document abnormalities in a consistent way within reports standardized across the organization.

Organizations may leverage artificial intelligence (AI) in imaging interpretation to aid in pulmonary nodule detection and documentation. For example, AI can detect lung nodules on the image and propose a recommendation for a radiologist to reject or validate. Additionally, tools exist to auto-populate follow up recommendations based on clinical guidelines.

Communication

These abnormalities should then be reported to the ordering provider with clear recommendations for patient's next steps. The ordering provider should then clearly communicate those findings and the appropriate next steps with the patient. The ordering provider and/or radiologist may also discuss the findings with the patient's primary provider to help ensure follow up or create a care plan.



. IN PARTNERSHIP WITH

The LungAmbition Alliance

How do they work?

Follow-up care

Once the patient is notified of their pulmonary nodule, their providers should ensure they receive appropriate follow up. Physicians fail to follow-up on as many as 36% of radiology reports. In order to mitigate gaps, organizations should assign ownership of follow up responsibilities. Many organizations employ navigators who serve a critical role in supporting patient follow up, for example:

- Documenting and tracking patients with incidental pulmonary nodules
- · Assisting the patient with administrative functions like scheduling
- · Explaining clinical terminology to patients and their care givers
- · Communicating with all relevant providers
- Tracking follow-up care and outcomes.



IN PARTNERSHIP WITH



Conversations you should consider having within your organization

)1	What is our process to consistently identify and document
	incidental pulmonary nodules? How can we further standardize
	these guidelines?

How do we educate all providers on the guidelines, processes, and importance of incidental pulmonary nodule findings and management?

03

What procedures do we have in place for ensuring patient follow up? Where may patients fall through the cracks?



What data do we track related to incidental pulmonary nodule findings and follow up? How can we improve our performance on these metrics?

These conversations might uncover the need to audit your current approach to incidental pulmonary nodule findings and management.



IN PARTNERSHIP WITH

The LungAmbition Alliance

Related content

Advisory Board resources



BLOG POST

Nearly twice as many patients are now eligible for lung cancer screenings-here is what you need to know

Read now

WEBINAR

Strategies to build and grow a comprehensive lung cancer detection program

Read now

SPONSORED BY ASTRAZENECA IN PARTNERSHIP WITH

The LungAmbition Alliance

The Lung Ambition Alliance, a global coalition with partners across disciplines in over 50 countries, was formed to combat lung cancer through accelerating innovation and driving forward meaningful improvements for people with lung cancer. We do this by advocating for improved approaches in three areas: screening and early diagnosis, accelerated delivery of innovative medicine, and improved quality care.

This report is sponsored by AstraZeneca, an Advisory Board member organization. Representatives of AstraZeneca helped select the topics and issues addressed. Advisory Board experts wrote the report, maintained final editorial approval, and conducted the underlying research independently and objectively. Advisory Board does not endorse any company, organization, product or brand mentioned herein.

To learn more, view our editorial guidelines.



IN PARTNERSHIP WITH



Project directors

Erin Lane LaneE@advisory.com Lauren Woodrow WoodrowL@advisory.com

Research analyst

Elle Choi

LEGAL CAVEAT

This report is sponsored by AstraZeneca, an Advisory Board member organization. Representatives of AstraZeneca helped select the topics and issues addressed. Advisory Board experts wrote the report, maintained final editorial approval, and conducted the underlying research independently and objectively. Advisory Board does not endorse any company, organization, product or brand mentioned herein.

This report should be used for educational purposes only. Advisory Board has made efforts to verify the accuracy of the information contained herein. Advisory Board relies on data obtained from many sources and cannot guarantee the accuracy of the information provided or any analysis based thereon. In addition, Advisory Board is not in the business of giving legal, medical, accounting, or other professional advice, and its reports should not be construed as professional advice. In particular, readers should not rely on any legal commentary in this report as a basis for action, or assume that any tactics described herein would be permitted by applicable law or any propriate for a given reader's situation. Readers are advised to consult with appropriate professionals concerning legal, medical, tax, or accounting issues, before implementing any of these tactics. Neither Advisory Board nor its officers, directors, trustees, employees, and agents shall be liable for any claims, liabilities, or expenses relating to (a) any errors or omissions in this report, whether caused by Advisory Board or any of its employees or agents, or sources or other third parties. (b) any recommendation or graded ranking by Advisory Board, or (c) failure of reader and its employees and agents to abide by the terms set forth herein.

AstraZeneca has obtained distribution rights to this content for the purpose of customer education. It is the policy of Advisory Board to enforce its intellectual property rights to the fullest extent permitted under law. The entire content of this report, including any images or text, is copyrighted and may not be distributed, modified, reused, or otherwise used except as provided herein without the express written permission of Advisory Board. The use or misuse of the Advisory Board trademarks, copyrights, or other materials, except as permitted herein, is expressly prohibited and may be in violation of copyright law, trademark law, communications regulations and statutes, and or regulations.



655 New York Avenue NW, Washington DC 20001 202-266-5600 | advisory.com

US-59714 Last Updated 12/21