Comprehensive early lung cancer detection program checklists

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How to use this resource

These four checklists offer guidance to help provider organizations establish and grow comprehensive lung cancer detection programs. Each checklist is broken down into basic, intermediate, or advanced stages. Additionally, the program features included in each checklist are arranged with the most imperative at the top. However, all the features are important for comprehensive early lung cancer detection.

Basic: Offer the standard of care; the "must have" services all health systems should provide

Intermediate: Provide all basic services plus meet centers of excellence criteria or other designations

Advanced: Best-in-class early detection programs; offer industry leading services, cutting-edge treatments, drive research, and forward innovative approaches

Three components of a comprehensive early lung cancer detection program

- 1. Lung cancer screening services including low-dose CT (LDCT) for eligible patients, as well as smoking cessation and shared decision-making services.
- 2. Incidental pulmonary nodule (IPN) stewardship that supports finding incidental pulmonary nodules, tracking patients with IPNs, and managing appropriate follow-up.
- Ongoing pulmonary nodule management for patients with nodules identified through screening, incidentally, or presenting with symptoms.

This resource details healthcare provider's experience creating lung cancer detection programs and does not represent the views or opinions of AstraZeneca. Individual experiences and recommendations may vary with patients.

Checklist 1: Clinical expertise and services

Components

- Expert support
- Diagnostic technology and services
- Clinical guideline adherence
- Accreditation and designations
- Research



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Basic Intermediate Advanced

To what extent does our program have support from relevant clinical experts?

Expert support	To what extent does our program have support from relevant clinical experts?				
	We have contributing providers , including:	We have dedicated providers , including:	We have the dedicated providers listed at left, plus:		
	 □ Radiologist □ Pulmonologist □ Cardiothoracic surgeon □ Oncologist 	 □ Radiologist □ Pulmonologist □ Cardiothoracic surgeon □ Oncologist □ Interventional radiologist □ Interventional pulmonologist 	 □ Interventional pulmonologist specialized in oncology □ Cardiothoracic oncologist □ Radiation oncologist □ Pathologist □ Cardiothoracic imaging specialist □ Thoracic surgeon 		
Diagnostic technology and services	To what extent is our program equipped with diagnostic technology and services?				
	Our program is equipped with: Low-dose CT MRI Bronchoscopy Mediastinoscopy Core needle biopsy Biomarker testing	Our program is equipped with everything at left, plus: PET/CT Endobronchial ultrasound (EBUS) Electromagnetic navigation bronchoscopy NGS and blood-based assays for lung cancer biomarker identification Transbronchial needle aspiration EBUS-guided transbronchial needle aspiration Rapid on-site evaluation used at time of tissue retrieval	Our program is equipped with everything at left, plus: Al computer vision to support interpretations of LDCT lung screening exams and identification of IPNs Fiducial marker placement for radiotherapy Bronchial stenting Robotic bronchoscopy Cone beam CT Lab testing for pan-cancer early detection Mobile lung screening capabilities		

Checklist 1: Clinical expertise and services (cont)

Components

- Expert support
- Diagnostic technology and services
- Clinical guideline adherence
- Accreditation and designations
- Research



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Basic Intermediate Advanced

Clinical guideline adherence	To what extend does our program implement relevant clinical guidelines to improve early lung cancer detection?				
	 We offer LDCT cancer screening to eligible patients per United States Preventive Services Task Force recommendations We apply standardized guidelines to the patient population (eg, Fleischner Society for IPNs and LungRADS for screening) We follow relevant clinical recommendations for nodule management, (eg, LungRADS, NCCN, or Fleischner Society) 	 □ We track our program's adherence to clinical guidelines □ We apply appropriate risk-stratification models throughout nodule management 	 We curate novel approaches to early lung cancer detection that inform our clinical guidelines We participate in research efforts that refine or generate new clinical guidelines 		
Accreditation and designations	To what extent is our program recognized for its quality by leading organizations?				
	■ We are accredited by the Commission on Cancer	■ We are recognized as a Center of Excellence for lung cancer care by the Go ₂ Foundation for Lung Cancer	 Our cancer program has National Cancer Institute designation 		
		□ We are an American College of Radiology Designated Lung Cancer Screening Center			
Research	To what extent is our program engaged in research?				
	☐ We answer patient questions about clinical trials and locations	☐ We share experiences with peers outside of peer-reviewed literature	We participate in active lung cancer-specific clinical research		
		□ We attend relevant conferences□ We have access to clinical trial	□ We collaborate with other entities (eg, NCI)		
		networks	□ We have dedicated data management support		

Checklist 2: Program infrastructure

Components

- Program governance
- Patient care governance
- Data tracking
- Data analysis
- Health equity considerations



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Basic Intermediate Advanced **Program governance** To what extent do we have a leadership structure to set program strategy? ☐ We have a physician champion ■ We have dedicated program ☐ We have one or two leader(s) with leaders for screening, IPN from at least one relevant direct oversight of and decisionspecialty (eg, radiology, oncology, stewardship, and nodule programs making authority for all lung pulmonology, or cardiothoracic cancer detection operations and surgery) leading efforts, either ☐ We have an administrative strategy coordinator to support program formally or informally – that work is operations ■ We have a defined reporting generally a side project in addition to their main responsibilities structure for our early lung cancer ☐ We have a regular communication program and meeting cadence with all stakeholders Patient care governance To what extent do we have processes in place to ensure appropriate patient care management? ■ We hold multidisciplinary tumor ■ We hold lung cancer specific MDT ■ We hold additional dedicated time (MDT) conferences conferences to discuss lung nodule cases **Data tracking** To what extent are we tracking data to improve the quality of our program? We manually track patients within the ☐ We electronically track all patients ■ We have a dedicated screening and/or nodule programs, within the screening and/or nodule epidemiological team reviews and as applicable, including: shares program data programs ☐ Recommended follow-up ☐ Our tracking system integrates ☐ We are piloting new data tracking with other infrastructure, such as tools and methods ■ Dates of recommended services electronic health records ■ Screening results ■ We have a dedicated data specialist on staff ■ Diagnosis and stage

Checklist 2: Program infrastructure (cont)

Components

- Program governance
- Patient care governance
- Data tracking
- Data analysis
- Health equity considerations



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Basic Intermediate Advanced

Data analysis	To what extent are we analyzing data to improve the quality of our program?				
	■ We track annual screening adherence rates	☐ We created an actionable lung cancer detection dashboard	We employ a dedicated lung tumor registrar		
	■ We track nodule follow-up adherence rates	□ We regularly and methodically share data analyses with stakeholders	We have enabled real-time data updates		
	 We assess which populations in our geographic region are underrepresented in our early detection programs We retrospectively analyze data from tumor registry data We participate in qualified registries and/or benchmarking initiatives 	 □ We track and analyze metrics related to health equity □ We quantify and compare the source of lung nodule findings (ie, the percentage found incidentally versus through screening) □ We leverage data analyses to inform program (re)design 	 We share data with trusted partners for larger-scale analyses We track characteristics of nodules and nodule changes 		
Health equity considerations	To what extent does our program strive to address health equity in early lung cancer detection?				
	 Our program has one or more affiliated leader(s) or clinician(s) engaged in efforts to reduce health disparities in early lung cancer detection We provide digital and hard copy patient materials that represent the languages, literacy, and cultures in our population 	 Our program has one or more dedicated leader(s) or clinician(s) formally responsible for setting health equity strategy We engage with community leaders to target underserved or at-risk populations 	 We have a leader and adequate resources solely dedicated to advancing our efforts to reduce health disparities in early lung cancer detection We conduct research on lung cancer early detection in underserved or at-risk populations 		



See advisory.com

For more about implementing a strong health equity strategy, see our compilation of resources to <u>advance equity in health care</u>.

Checklist 3: Care coordination and management

Components

- Navigation
- Incidental pulmonary nodule findings stewardship
- Care efficiency
- Referring provider involvement
- Shared decision-making



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Basic Intermediate Advanced **Navigation** To what extent is our program equipped to support patients navigating our services? ☐ We have a nurse, technologist, or ■ We have a dedicated lung cancer ☐ We have a team of navigators supporting the comprehensive experienced administrative screening program nurse coordinator supporting lung nodule navigator early lung cancer detection navigation in our program program ☐ We have a dedicated lung nodule ☐ We have navigators involved in program and/or IPN nurse strategic priorities and program navigator development **Incidental pulmonary** To what extent does our early lung cancer detection program engage in incidental pulmonary nodule stewardship? nodule findings stewardship ■ We automatically add IPN cases ☐ We use natural language Our emergency department providers and/or radiologists alert to the electronic tracking system processing tools to review imaging reports for IPN findings coordinator of IPN ☐ Our navigators proactively follow-☐ Our navigators track relevant up with patients that do not have ☐ Our clinicians and/or program information manually referring providers leaders review IPN data regularly to identify improvement ☐ Our navigators coordinate opportunities follow-up based on standard quidelines (see checklist 1) Care efficiency To what extent does our program efficiently move patients through the care continuum? ☐ We typically diagnose patients ■ We typically diagnose patients ☐ We typically diagnose patients within 60 days of initial finding within 30 days of initial finding within 14 days of findings ■ We typically initiate treatment ■ We typically initiate treatment ☐ We typically initiate treatment within 30 days of diagnosis within 15 days of diagnosis within 14 days of diagnosis

Checklist 3: Care coordination and management (cont)

Components

- Navigation
- Incidental pulmonary nodule findings stewardship
- Care efficiency
- Referring provider involvement
- Shared decision-making



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Basic Intermediate Advanced To what extent are referring providers involved in the early lung cancer detection program? Referring provider involvement ☐ They refer eligible patients to the ☐ They track lung cancer screening ☐ They collaborate with adherence of high-risk patients comprehensive lung nodule screening program and may conduct the shared decisionand intervene as needed program to improve screening making visit patient identification, streamline ☐ They are actively involved in processes, and/or participate in ☐ They refer patients with IPNs to ongoing nodule management research initiatives our lung nodule program ☐ They educate peers on screening ☐ They are familiar with the latest and nodule management screening and nodule management guidelines **Shared decision-making** How accessible is shared-decision making for lung cancer screening patients within our program? ☐ Shared decision-making is □ All providers are educated on ☐ Shared decision-making is offered primarily conducted by referring shared decision-making and can at time of screening easily access necessary providers ☐ We offer virtual shared decisionresources ☐ Shared decision-making is making visits ☐ Our screening program primarily available at lung cancer screening conducts shared decision-making program sites

Checklist 4: Wraparound patient care

Components

- Behavioral and psychological health services
- Financial services
- Cancer center services
- Smoking cessation services



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Basic Intermediate Advanced Behavioral and To what extent is our program engaged with behavioral and psychological health services? psychological health services ☐ We refer patients to appropriate ■ We coordinate screening and ■ We conduct research on lung behavioral and psychological nodule services for patients being cancer early detection in patients health specialists or services treated for mental illnesses being treated for mental illness **Financial services** To what extent does our early lung cancer detection program provide financial services? ☐ We have a dedicated financial ■ We connect patients with broader ■ We are supported by cancer health system financial navigation center financial navigators navigator or community financial services ■ We provide financial education for patients and their families To what extent is our program integrated with broader cancer center services? **Cancer center services** ■ We refer patients to cancer center ☐ We are integrated with cancer ☐ We are integrated with additional services (eg, care plans, spiritual center services (eg, survivorship cancer center patient services and pastoral care, general clinic, complementary and available (eg, after-hours symptom nutrition education) alternative medicine, rehab/ management, oncology nutrition program, onco-fertility clinic, prehab, family support, on-site nutrition program) palliative care for all patients from diagnosis) **Smoking cessation** To what extent does our program provide smoking cessation services? services ■ We offer smoking cessation ☐ We operate comprehensive ☐ We partner with local employers to counseling, lung cancer risk smoking cessation services, offer education and smoking education, self-help materials, and including counseling and support cessation counseling community outreach groups ☐ We connect patients with ■ We connect patients with pharmaceutical interventions, such pharmaceutical interventions, such as bupropion as nicotine gum, transdermal nicotine, and nicotine nasal spray

CHECKLISTS

For health care providers

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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.

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