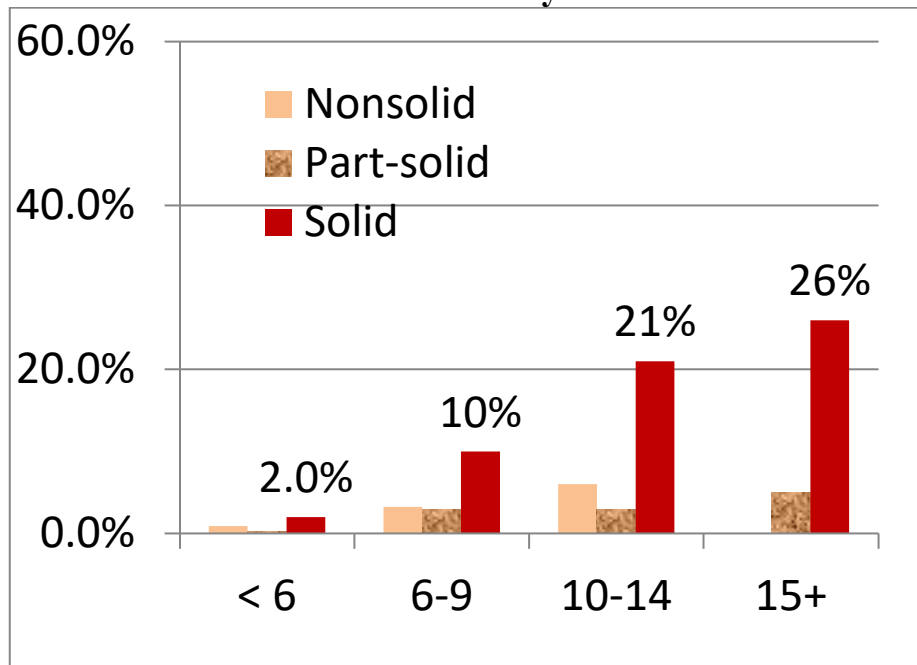


Annual Repeat Screening Protocol, results and workup recommendations

Negative: No new nodules	IELCAP = 1
Semi-positive: RETURN FOR NEXT ANNUAL REPEAT	IELCAP = 2
<ul style="list-style-type: none"> a. Growth of previously seen nodules but still < 3.0 mm; b. <i>New</i> noncalcified nodules < 3.0 mm; c. Nonsolid nodules, regardless of size. 	
Indeterminate: RETURN FOR LDCT IN 6 MONTHS	IELCAP = 3
<ul style="list-style-type: none"> a. Largest solid, part-solid (solid component) 3.0-5.9 mm, when <i>follow-up CT scan in 6 months after baseline shows growth at a nonmalignant rate</i>, RETURN 6 MONTHS LATER FOR NEXT ANNUAL REPEAT SCREENING. b. Largest solid, part-solid (solid component) 6.0-14.9 mm, when <i>follow-up CT scan in 1 months after baseline shows growth at a nonmalignant rate</i>, RETURN 11 MONTHS LATER FOR NEXT ANNUAL REPEAT SCREENING 	
Positive:	IELCAP = 4
<ul style="list-style-type: none"> a. Largest <i>new</i> or <i>growing</i> solid or solid component of part-solid nodule is 3.0-14.9 mm <i>and follow-up CT scan shows growth at a malignant rate</i>; b. Largest new or growing solid or solid component of part-solid nodule ≥ 15.0 mm; c. <i>New</i> solid endobronchial nodule. 	
WORKUP OPTIONS FOR POSITIVE RESULTS:	
A) If the solid nodule or part-solid (solid component), 3.0-5.9 mm, showed further growth at a malignant rate, biopsy is recommended.	
B) For newly identified solid NCNs Nodule diameter (mm) m in diameter or larger.	
Options 1-3 can be used:	
<ol style="list-style-type: none"> 1. Perform low-dose CT one month after the screening. If the NCN shows growth at malignant rate, biopsy is recommended. If there is partial or complete resolution, the workup stops. If the nodule is unchanged, particularly if the nodule is 10.0 mm or larger, Option 2 can be used, otherwise three-month follow-up CT is performed; if growth at a malignant rate, biopsy is recommended, otherwise work-up stops. 2. For solid or part-solid nodules, particularly if the solid component is 10.0 mm or larger, an immediate PET scan can be performed. If positive, biopsy is recommended; if it is indeterminate or negative, low-dose CT 3 months after the initial CT is performed. If the nodule shows growth, biopsy is recommended, otherwise workup stops. 3. Infections may present as solitary or as multiple nodules (72). Provide an immediate course of a broad-spectrum antibiotic with anaerobic coverage, and a follow-up low-dose CT one month later. If the NCN shows growth at a malignant rate, biopsy is recommended, if nodule(s) are unchanged, option 2 or 3-month follow-up CT is recommended. If there is partial or complete resolution, the workup stops. If MAC or other chronic infection is suspected, pulmonary consultation is recommended. 	
C) If an endobronchial nodule is identified, ideally the participant is asked to cough vigorously several times and the region of interest is reimaged at the same setting. If the endobronchial nodule is not recognized at the time of the screening CT scan, another low-dose CT scan without contrast is performed within 1 month, unless classic features of retained secretions are identified. At the time of the follow-up CT scan, the participant is asked to cough vigorously several times. If the nodule is still present, the participant is referred for pulmonary consultation, and if necessary, bronchoscopy.	

NOTE: Whom diagnostic work-up is stopped, REPEAT CT 12 months is to be performed.

Annual Repeat Round. Probability of malignancy based on nodule size and consistency



Annual Repeat Rounds: Change needed in nodule diameter to identify growth at a malignant rate for volume doubling times of 180 days or faster.

ANNUAL REPEAT ROUNDS		
Original diameter (mm)	Diameter (mm) in 6 months without measurement error VDT: 180 days	Diameter (mm) in 6 months with measurement error VDT: 180 days
3.0	3.8	4.2
4.0	5.0	5.4
5.0	6.3	6.7
Original diameter (mm)	Diameter (mm) in 1 month without measurement error VDT: 180 days	Diameter (mm) in 1 month with measurement error VDT: 180 days
6.0	6.2	7.0
7.0	7.3	8.1
8.0	8.3	9.1
9.0	9.4	10.2
10.0	10.4	11.2
11.0	11.4	12.2
12.0	12.5	13.3
13.0	13.5	14.3
14.0	14.5	15.3