

## Lung-RADS<sup>™</sup> Version 1.1

## Assessment Categories Release date: 2019

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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	Solid nodule(s):     < 6 mm	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 at baseline OR	6 month LDCT	1-2%	5%
Probably Suspicious Findings for which additional diagnostic testing is recommended	4A	Solid nodule(s):     ≥ 8 to < 15 mm at baseline OR	3 month LDCT; PET/CT may be used when there is a ≥ 8 mm solid component	5-15%	2%
Suspicious Findings for which additional diagnostic testing and/or tissue sampling is recommended	4B	Solid nodule(s) ≥ 15 mm OR new or growing, and ≥ 8 mm Part solid nodule(s) with: a solid component ≥ 8 mm OR a new or growing ≥ 4 mm solid component	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 solid component. For new large nodules that develop on an annual repeat screening CT, a 1 month LDCT may be recommended to address potentially infectious or inflammatory conditions	> 15%	2%
	4X	Category 3 or 4 nodules with additional features or imaging findings that increases the suspicion of malignancy			
Clinically Significant or Potentially Clinically Significant Findings (non lung cancer)	S	Modifier - may add on to category 0-4 coding	As appropriate to the specific finding	n/a	10%
Volumetric measurements	e	1.5 mm = 1.8 mm <sup>3</sup> 4 mm = 33.5 mm <sup>3</sup> 6 mm = 113.1 mm <sup>3</sup> 3 mm = 268.1 mm <sup>3</sup>	10 mm = 523.6 mm <sup>3</sup> 15 mm = 1767.1 mm <sup>3</sup> 20 mm = 4188.8 mm <sup>3</sup> 30 mm = 14137.2 mm <sup>3</sup>		

IMPORTANT NOTES FOR USE:

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
Growth: an increase in size of > 1.5 mm

5) Exam Category: each exam should be coded 0-4 based on the nodule(s) with the highest degree of suspicion

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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
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 (perifissural nodules) should be classified as category 2 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/