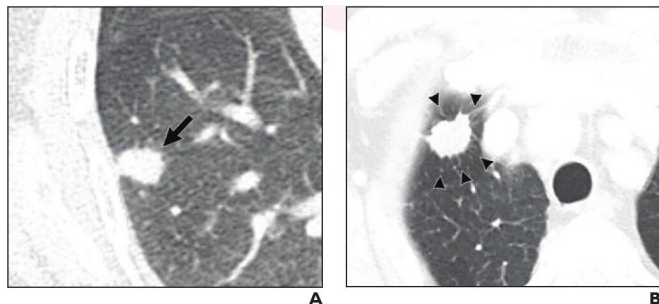


CT promising for sublobar resection in early-stage non-small cell lung cancer

13 May 2021



(A) 70-year-old woman with pulmonary adenocarcinoma who underwent sublobar resection without evidence for pLVI. 15-mm solid nodule with irregular margins present in right lower lobe (arrow). No tumor recurrence on 37-month follow-up. (B) 75-year-old man with pulmonary adenocarcinoma who underwent wedge resection that exhibited pLVI. 19-mm solid nodule with irregular margins and peritumoral interstitial thickening (arrowheads) present in right upper lobe. Ipsilateral mediastinal and hilar lymph node metastasis occurred after 5-month follow-up (not shown). Credit: American Roentgen Ray Society (ARRS), American Journal of Roentgenology (AJR)

observed only in solid-dominant part solid nodules and solid nodules with solid portion diameter over 10 mm," concluded corresponding author Mi Young Kim from the department of radiology at the University of Ulsan College of Medicine, Asan Medical Center.

"Among such nodules," the authors of this AJR article continued, "peritumoral interstitial thickening (odds ratio=13.22) and pleural contact (odds ratio=2.45) were independently associated with pathologic lymphovascular invasion." Moreover, models incorporating these features independently predicted recurrence-free survival after sublobar resection (hazard ratio=5.37-6.05).

More information: Jooae Choe et al, Sublobar Resection in Stage IA Non-Small Cell Lung Cancer: Role of Preoperative CT Features in Predicting Pathologic Lymphovascular Invasion and Postoperative Recurrence, *American Journal of Roentgenology* (2021). DOI: [10.2214/AJR.21.25618](https://doi.org/10.2214/AJR.21.25618)

According to an open-access Editor's Choice article in ARRS' *American Journal of Roentgenology* (AJR), CT features may help identify which patients with stage IA non-small cell lung cancer are optimal candidates for sublobar resection, rather than more extensive surgery.

This [retrospective study](#) included 904 [patients](#) (453 men, 451 women; mean age, 62 years) who underwent lobectomy (n=574) or sublobar resection (n=330) for stage IA non-[small cell lung cancer](#). Two thoracic radiologists independently evaluated findings on preoperative chest CT, later resolving any discrepancies. Recurrences were identified via medical record review.

"In patients with stage IA non-small cell lung cancer, pathologic lymphovascular invasion was

Provided by American Roentgen Ray Society

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