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**THORACIC
SURGERY**
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11th International Meeting on General Thoracic Surgery



Hospital
Universitari
Sagrat Cor

10th International Workshop on Surgical Exploration of the
Mediastinum and Systematic Nodal Dissection



5th Meeting of the Thoracic Oncology, Thoracic
Surgery, Techniques & Transplant, Respiratory Nursing
and Respiratory Physiotherapy Areas of the Spanish
Society of Pneumology and Thoracic Surgery (SEPAR)



3rd Joint Meeting of the Spanish Society of
Thoracic Surgery (SECT)



30th Congress of the "Asociación Iberoamericana
de Cirugía Torácica" AIAC



10th International Workshop on Surgical Exploration of the
Mediastinum and Systematic Nodal Dissection



STAS IMPLICATIONS FOR THE SURGEON

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The presentation outlines the concept of "Spread Through Air Spaces" (STAS) as introduced in the 2015 WHO classification. STAS refers to tumor cells spreading beyond the main tumor into surrounding air spaces, often not detectable during surgery or by radiology, and is associated with worse prognosis in lung adenocarcinoma. Clinical implications include its role as a risk factor for recurrence, especially in limited resections. Key studies highlight the need for intraoperative and postoperative detection, suggesting lobectomy as a more appropriate approach when STAS is present. Additionally, ongoing research investigates methods for better preoperative detection, including radiomics and machine learning models.

References:

1- Kadota K, Nitadori JI, Sima CS, Ujii H, Rizk NP, Jones DR, Adusumilli PS, Travis WD. Tumor Spread through Air Spaces is an Important Pattern of Invasion and Impacts the Frequency and Location of Recurrences after Limited Resection for Small Stage I Lung Adenocarcinomas. *J Thorac Oncol*. 2015 May;10(5):806-814.

2- Liu, H., Yin, Q., Yang, G. et al. Prognostic Impact of Tumor Spread Through Air Spaces in Non-small Cell Lung Cancers: a Meta-Analysis Including 3564 Patients. *Pathol. Oncol. Res.* 25, 1303–1310 (2019).

3- Eguchi, Takashi, et al. "Lobectomy is associated with better outcomes than sublobar resection in spread through air spaces (STAS)-positive T1 lung adenocarcinoma: a propensity score–matched analysis." *Journal of thoracic oncology* 14.1 (2019): 87-98.