

Lung adenocarcinoma

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Lung adenocarcinoma is a form of [non-small-cell lung cancer](#).

Lung adenocarcinoma with epidermal growth factor receptor mutation

[EGFR-Mutant Non-Small-Cell Lung Cancer](#).

Surgical Outcomes of Video-Assisted Thoracic Surgery Combined With Computed Tomography-Guided Microwave Ablation for Lung Cancer Presenting as Multiple Ground-Glass Opacities: A 5-Year Retrospective Cohort Study

Type of Study: Retrospective cohort study (5 years)

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Journal: Thoracic Cancer

Purpose: To evaluate the feasibility, safety, and long-term outcomes of combining video-assisted thoracic surgery (VATS) with CT-guided microwave ablation (MWA) in treating synchronous multiple primary lung cancers (sMPLC) presenting as multiple ground-glass opacities (mGGOs).

Conclusions: The combined VATS and CT-guided MWA approach achieved a 100% technical success rate and demonstrated strong 3-year and 5-year survival metrics, with no observed local tumor progression or recurrence.

Critical Review: This single-institution retrospective study offers a bold and innovative combination of VATS and MWA to address the increasingly common issue of mGGOs in early-stage lung adenocarcinoma. While the technical success and survival rates reported are impressive, the lack of a control group, small sample size (n=47), and potential for significant selection bias limit the generalizability of the findings. No details are provided on standardized criteria for nodule selection, ablation parameters, or postoperative surveillance protocols. The “needle and scalpel” rhetoric, though catchy, risks overselling the concept without robust comparative evidence.

Final Verdict: A creative surgical strategy with potential, but its evidence base remains preliminary.

Takeaway for the Practicing Neurosurgeon: Although not directly applicable to neurosurgical practice, the procedural model exemplifies a multidisciplinary, [hybrid technique](#) that may inspire similar integrated approaches in neuro-oncology.

Bottom Line: Promising hybrid therapy for sMPLC with mGGOs, but confirmation in controlled, multicenter trials is essential.

Rating: 5.5 / 10

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Tags: VATS, microwave ablation, ground-glass opacities, mGGOs, sMPLC, lung cancer, thoracic oncology, retrospective study, surgical innovation

Sixty-four human lung adenocarcinoma patients with depression and 64 lung adenocarcinoma patients without depression were recruited for this study. The expression of 5-HT receptors on lung

adenocarcinoma cells from tumour tissues were detected by using immunohistochemistry (IHC) and fluorescence-activated cell sorting (FACS). The depression models were established in vitro and in vivo. The effects of immunosuppression were evaluated by testing the function of cytotoxic lymphocyte (CTLs) and Tregs, measuring tumour weight or volume, assessing the survival of mice and staining of tissues by IHC. Changes in the expression of immunoregulatory factor genes were assessed to elucidate the mechanism of immune evasion induced by the 5- hydroxytryptamine receptor (HTRs).

Higher levels of 5-HT, increased expression of 5-HT1Rs and decreased overall survival were observed in lung adenocarcinomas patients with depression compared with those without depression. Moreover, 5-HT1aR, a critical factor for increasing the number of CD4+CD25+Foxp3+ Treg cells and decreasing the ratio of Th1/Th2 cells, which suggested immune system dysregulation. In addition, expression of 5-HT1aR on tumour cells was also negatively associated with CTL activity in both peripheral blood and tumour infiltrating lymphocytes. In a depressive state, 5-HT1aR activates p-signal transducer and activator of transcription 3 (STAT3) and autophagy, and programmed death ligand-1, a downstream gene of autophagy/p-STAT3 signalling, mediates an immunosuppressive environment. Moreover, in both the mouse model and lung adenocarcinoma patients, the activation of 5HT1aR and the elevated tumour autophagy/p-STAT3 axis were associated with reduced overall survival.

The 5-HT1aR/autophagy/p-STAT3 axis influences both tumour cells and immune cells, resulting in immunosuppression in lung adenocarcinomas patients with depression ¹⁾.

Unclassified

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