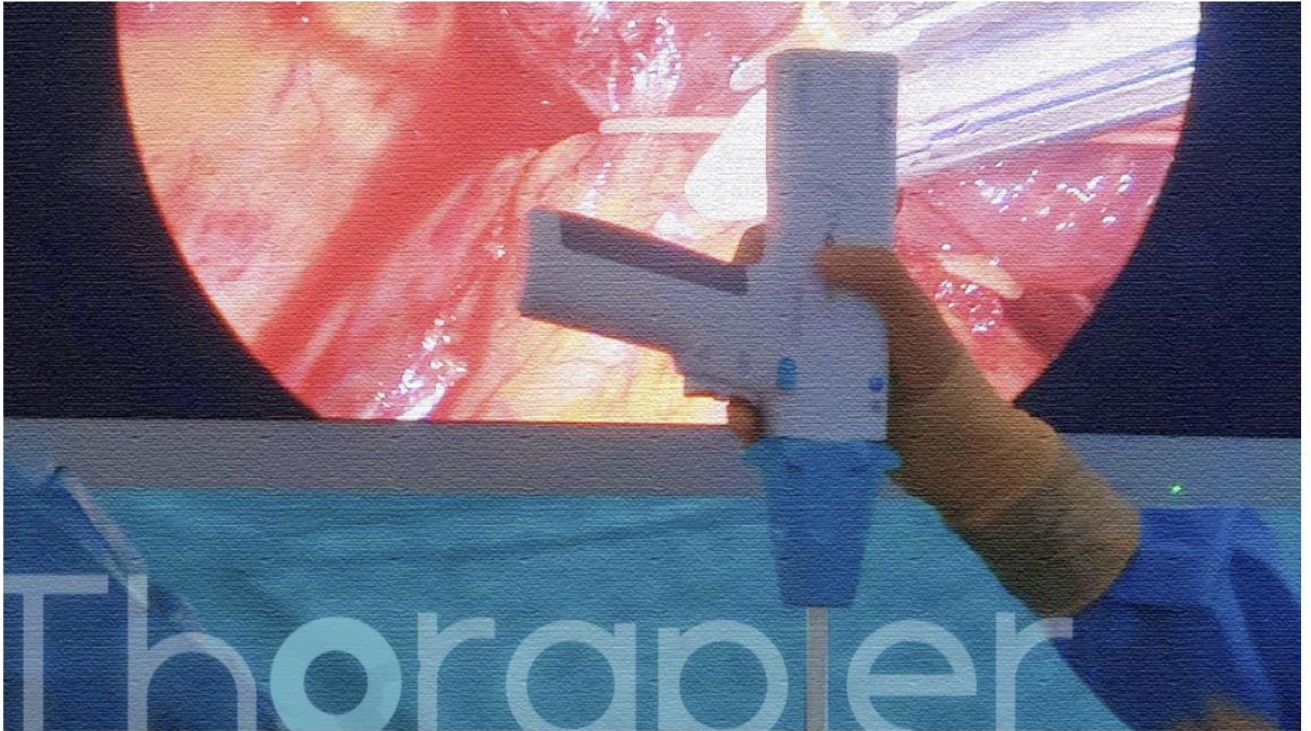




VATS Right Lower Lobectomy for cT1bN0M0 NSCLC Without Major Fissure

September 4, 2025



A Challenging Case at [Hospital Universitario La Paz](#) in Madrid, Spain.

Performed by

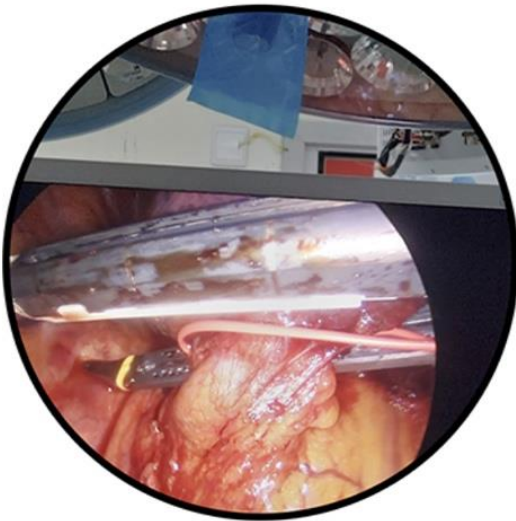
Dra. Sandra Liliana Pardo Prieto

Dra. Laura Mate Miguel

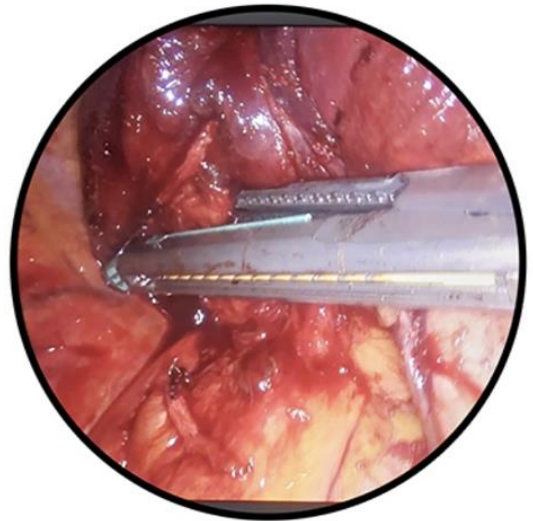
Dr. Ramón Vicente Verdú

A 69-year-old female patient presented with a solitary pulmonary nodule located in the right lower lobe. The diagnosis was non-small cell lung carcinoma (NSCLC), staged cT1bN0M0. The surgical team at La Paz Hospital, Madrid, Spain, performed a video-assisted thoracoscopic (VATS) right lower lobectomy using the Thorapler two-staple-line stapling system.

Anatomical challenges included the absence of a major fissure, which typically increases the technical difficulty of lobar separation. Despite this, the Thorapler stapler, featuring a **3D Tile-shaped Staple technology using a two-staple-line configuration**, was applied effectively with white and green reloads used with and without the detachable curved tip, adapting seamlessly to the patient's anatomy and surgical needs.



White reload with Detachable Curved Tip



Green reload where Thorapler offers exclusive compatibility

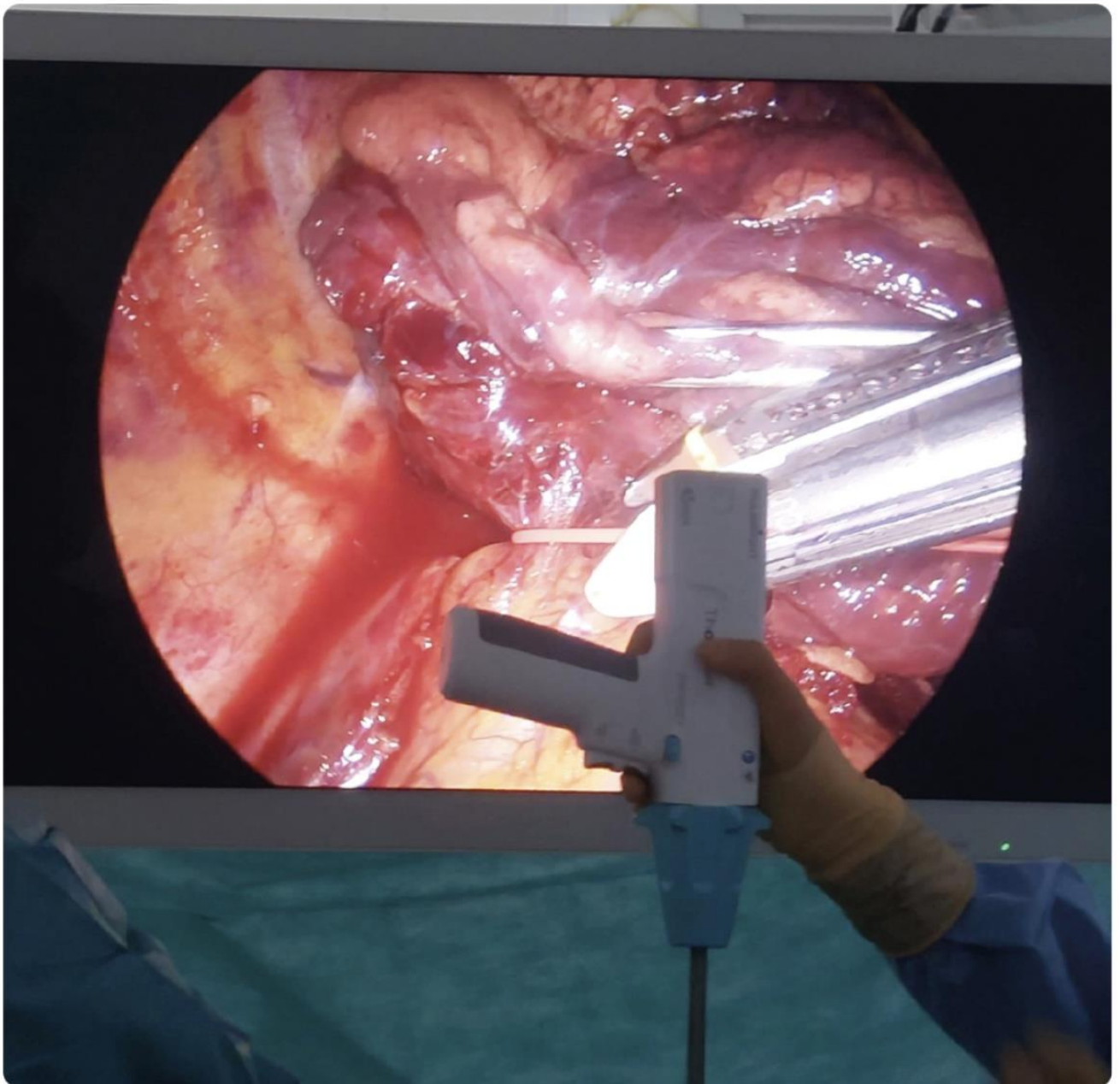
Thorapler 3D Tile-shaped Staple

Importantly, no intraoperative air leaks were observed after stapling, and the patient was discharged on postoperative day 3, reflecting a smooth recovery.

Discussion

This case underscores the staple security and closure integrity provided by the **Thorapler's two-staple-line** configuration, particularly in anatomically complex resections such as those without natural fissures. The combination of green and white reloads, together with precise curved tip control, enabled secure vascular and parenchymal stapling comparable to the three-staple-line systems, even under challenging conditions.

In addition, the **8mm Ultra-Slim Shaft** significantly improves operational space compared to conventional staplers with a 12 mm shaft, the approach angle within the complex thoracic anatomy increased from **43.6° to 93.6°**, nearly doubling maneuverability, offering surgeons greater operating space and improved ergonomics.



Thorapler with 8mm Ultra-Slim Shaft

Conclusion

The Thorapler stapling system with its 2-staple-line configuration, enabled a safe and efficient VATS lobectomy in a patient with early-stage NSCLC and fissureless anatomy.

The absence of air leaks post-stapling, a key determinant of postoperative complications and hospital stay, the enhanced staple security and closure integrity provided by the 2-staple-line design ensured reliable outcomes, even in complex resections.

Moreover, the 2-staple-line configuration consistently maintained closure integrity regardless of reload choice—both green and white, with or without the detachable curved tip. This flexibility meant that even across variable tissue thickness and challenging hilar planes, the staple line remained airtight.



3D Tile-Shaped Staple Reload

Innovative 3D Tile-shaped Staple Improving hemostasis and more secure prevention of air leakage. Encircling structure with a shingle-like arrangement, staggered layout, and a perfect fit. •...

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Curved Tip

- Electric staple cartridge: has obtained NMPA Class III registration certification with a wider scope of clinical application.
- With a detachable "sled", it can be used interchangeably for...

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