



A Standard Case of Peripheral Lung Tumor Treated by RATS Using Thorapler

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In this episode, we present another RATS procedure at Hospital General Universitario Dr. Balmis, in which Thorapler was used as the stapling system.

Case Introduction

The patient presented with a peripheral lung tumor measuring more than 3 cm, histologically confirmed as adenocarcinoma. There were no significant comorbidities, and the patient demonstrated good preoperative lung function.

Based on these findings, a standard robotic resection was performed. Thorapler was selected as the stapling device for vascular, parenchymal, and bronchial transection.

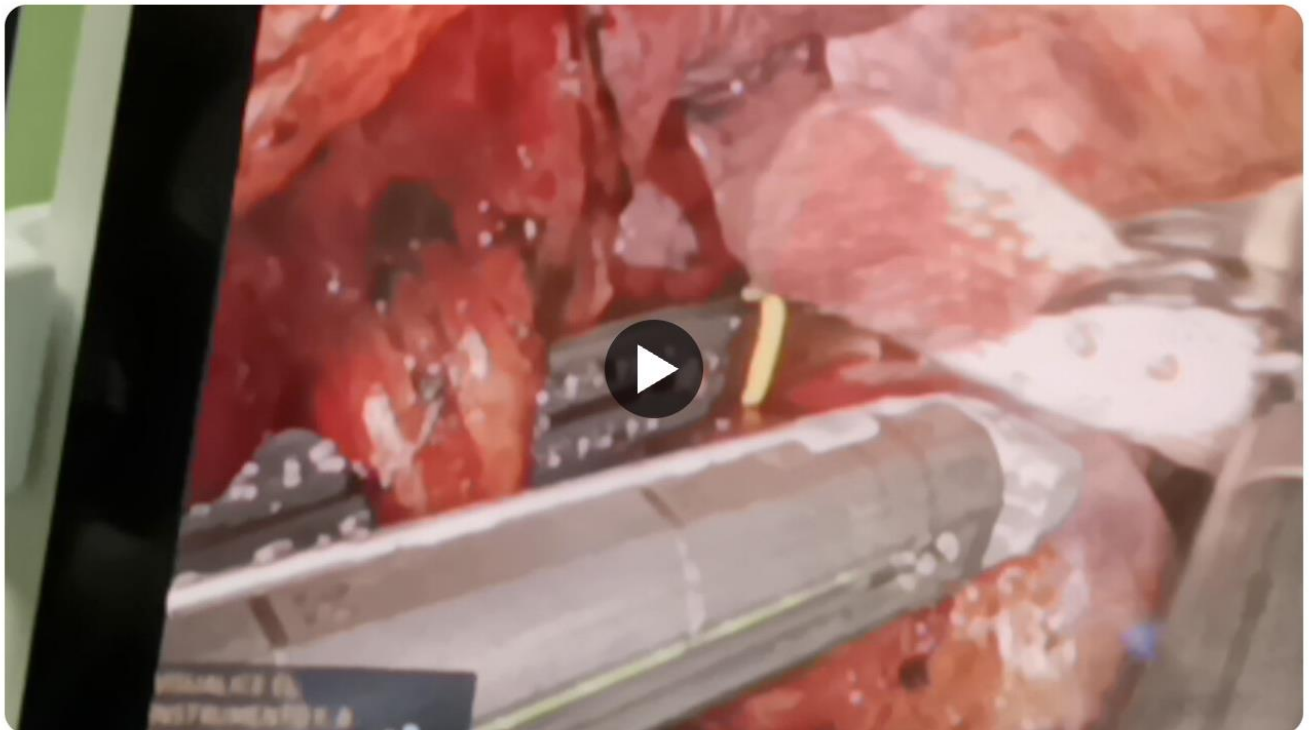
Performance in Vascular Transection

In the vascular phase of the procedure, the **two-row white reload** was used for controlled division of pulmonary vessels.

Key observations during vascular transection included:

- **Precise and stable staple formation**, ensuring secure vessel closure
- **Consistent compression**, allowing safe transection without excessive manipulation
- **Smooth firing and controlled cutting**, as observed during procedures performed on the RATS platform.

The two-row staple configuration provided reliable hemostasis while maintaining a clear operative field, supporting efficient progression of the robotic workflow.



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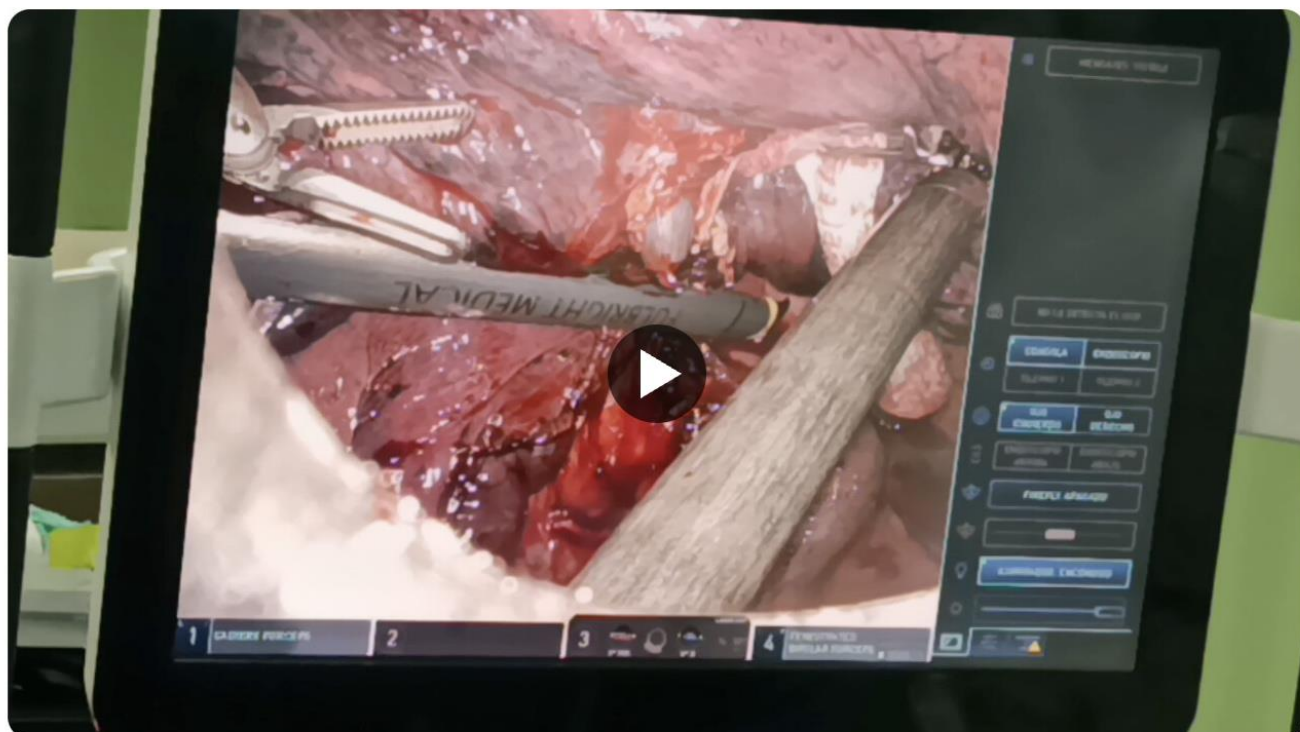
Performance in Lung Parenchyma Division

Applied for **parenchyma division**, a step that benefits significantly from controlled tissue handling.

the **two-row gold and green reload** demonstrated:

- **Uniform compression across lung tissue**, resulting in a clean and even transection line
- **Stable staple line formation**, supporting consistent parenchymal closure
- **Reliable performance in thicker tissue using gold and green reloads**, ensuring appropriate compression and secure staple formation

The two-row stapling design allowed effective parenchymal sealing while preserving tissue integrity, contributing to a smooth and predictable division.



[CLICK !\[\]\(cbe2492b119e39e02a1dab2af4a4b296_img.jpg\) to watch the full procedure video](#)

Performance in Bronchial Transection

For bronchial transection, the two-row stapler with green reload provided:

- **Robust staple formation in thicker bronchial tissue**
- **Consistent closure along the bronchial stump**
- **Controlled firing behavior**, supporting stable and precise handling

The two-row staple line ensured a secure bronchial closure while maintaining precise control during transection.



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Postoperative Outcome

The patient was discharged within the standard time frame, with recovery progressing as expected. No unexpected intraoperative or postoperative issues were observed.

Summary and Technical Perspective

This RATS case demonstrates the **versatility and precision of Thorapler 3D 2-row stapling system** when used across multiple tissue types within a single procedure:

- ✅ **Vascular transection: secure, controlled, and consistent**
- ✅ **Parenchymal division: uniform compression and stable staple lines**
- ✅ **Bronchial transection: robust closure in thicker tissue**

The ability to use the same two-row stapling system effectively for vessels, lung parenchyma, and bronchus supports procedural efficiency and workflow continuity in robotic thoracic surgery.

