

AIM

- ▶ Assess technical feasibility and safety of a MIDCAB procedure using the Da Vinci SP single-port robotic system
- ▶ LIMA harvest, workflow definition, and proof of concept for future TECAB approach

PREPARATION

- ▶ Systematic literature review
- ▶ Porcine and cadaver procedures at IRCAD, Strasbourg
- ▶ Proper patient selection

POST-OPERATIVE COURSE

- ▶ Enhanced recovery (ERACS protocol)
- ▶ **POD 1:** PCI RCA, drain removal, transfer to ward
- ▶ **POD 2:** Discharge home
- ▶ Low pain scores (NRS 2–3)
- ▶ **POD 28:** Excellent follow-up evaluation

CONCLUSION

- ✓ Technically feasible using single-port robotic platform (Da Vinci SP)
- ✓ 2 incisions vs. 4–5 in conventional MIDCAB → reduced chest wall trauma
- ✓ Excellent short-term outcomes: early discharge, low pain scores
- ✓ Proof of concept for future fully endoscopic TECAB approach

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PROCEDURE

STEP 1

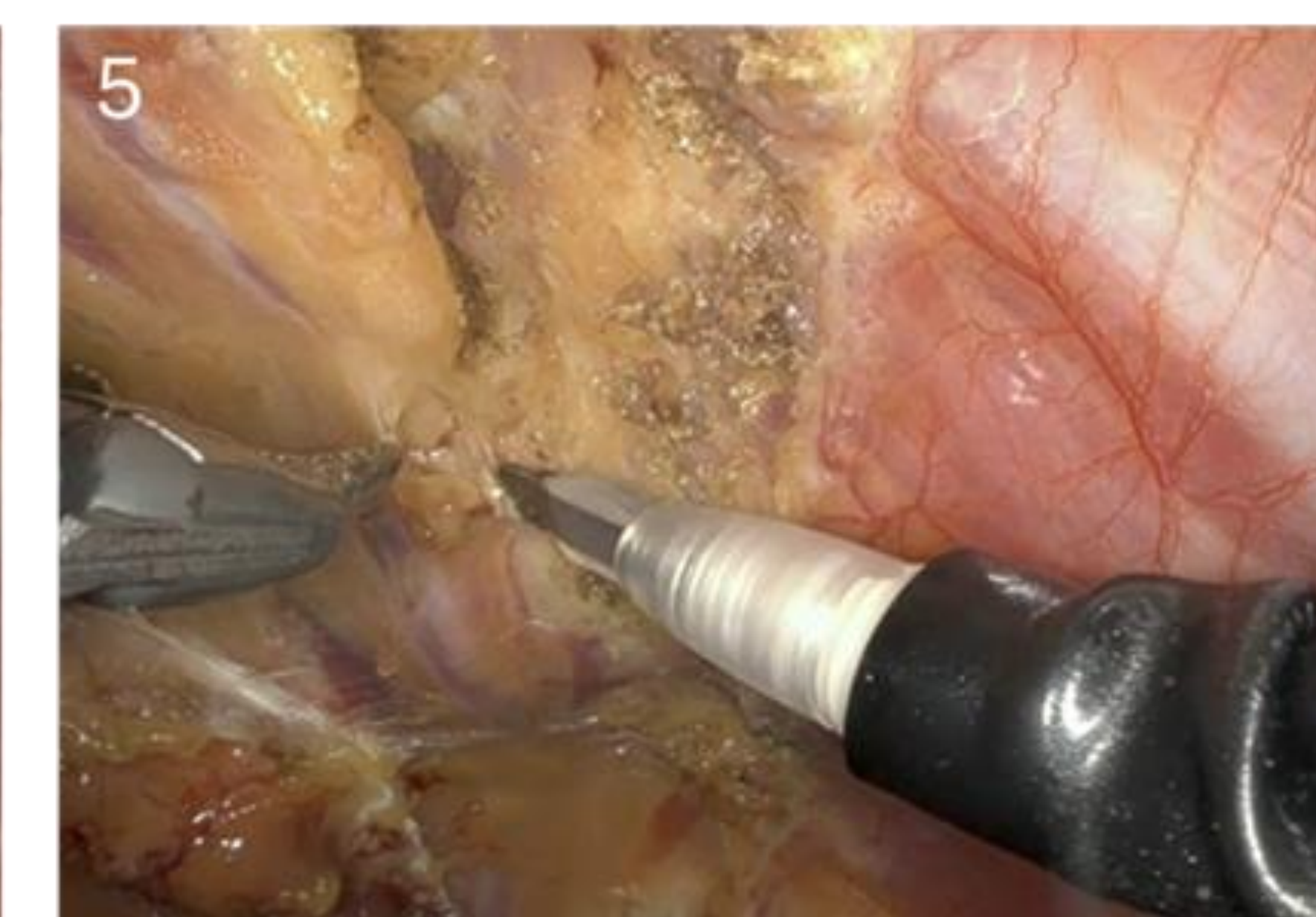
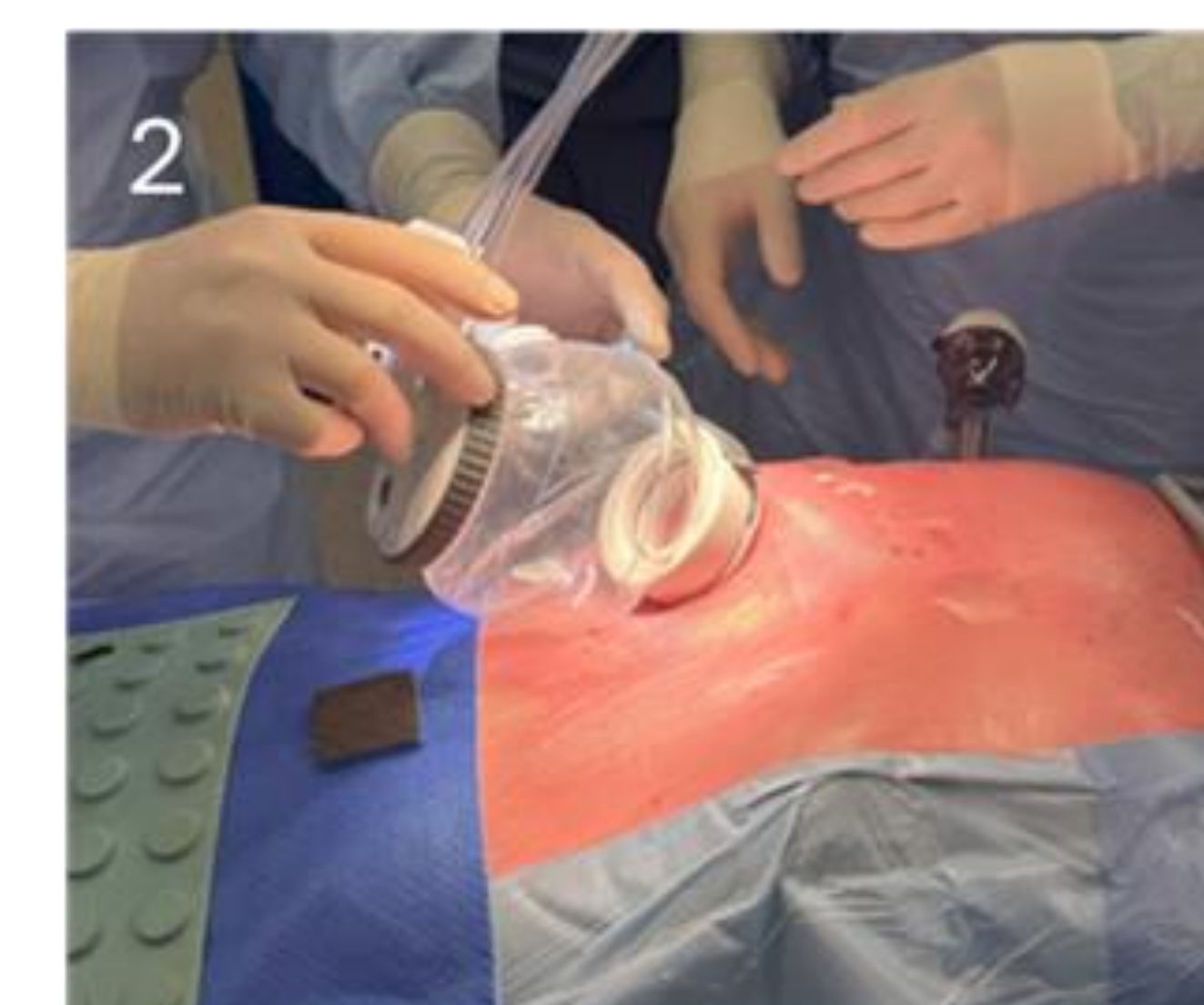
Patient positioning & port placement

STEP 2

Robotic LIMA harvest (Da Vinci SP)

STEP 3

Mini-thoracotomy & LIMA-LAD anastomosis



Intraoperative views: robotic LIMA harvest

2

Incisions

2

Days to discharge

2–3

Pain score (NRS)