

Innovations in Dual-Incision DaVinci Xi Robotic Surgery for Colon Cancer

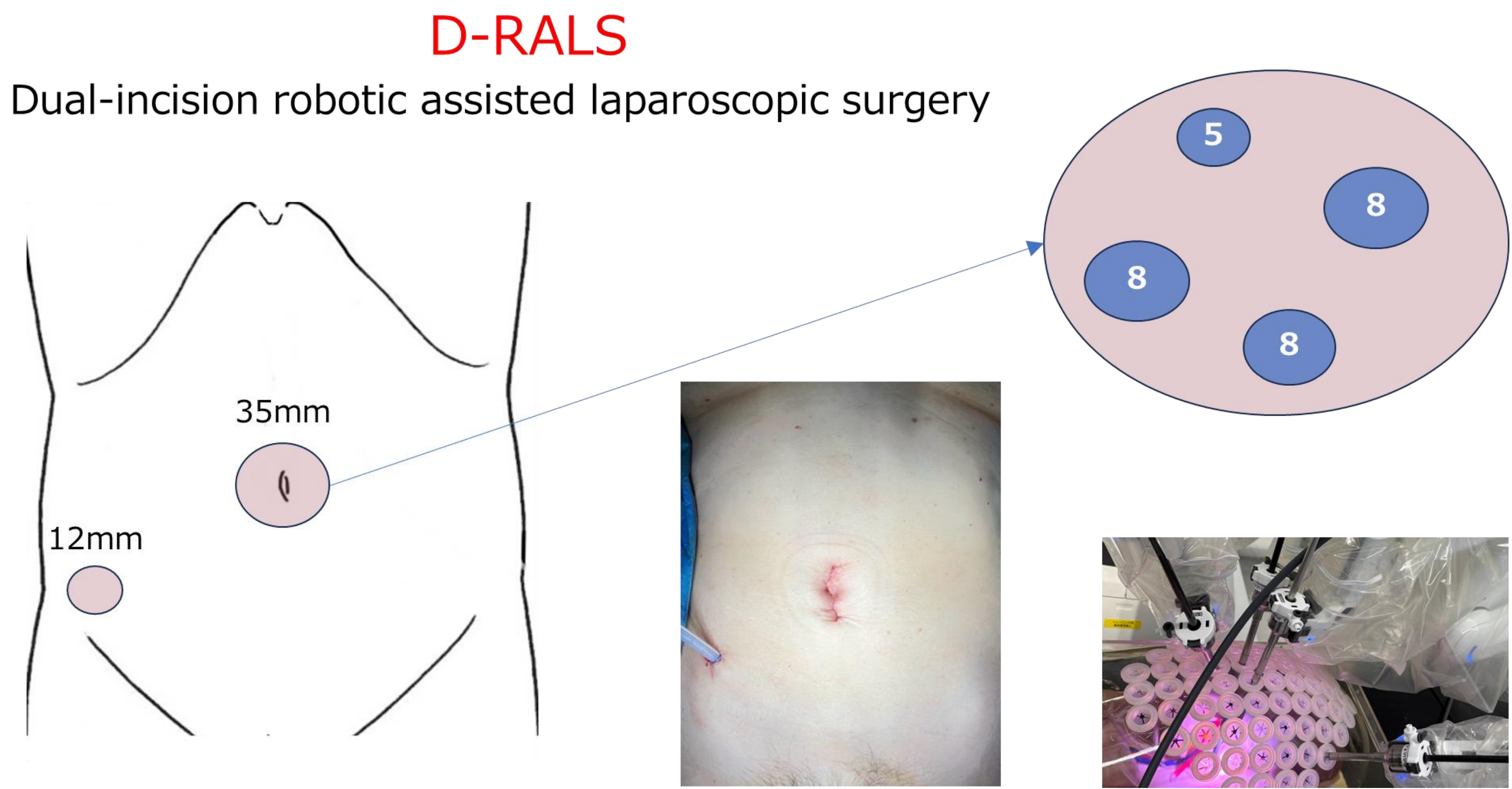
Tokyo Medical University Department of Digestive and Pediatric Surgery

○Kenta Kasahara , Hiroki Sujino , Yu Kuboyama , Ryutaro Udo , Tomoya Tago , Junichi Mazaki ,Kenichi Iwasakki , Yuichi Nagakawa

Backgrounds & Aims

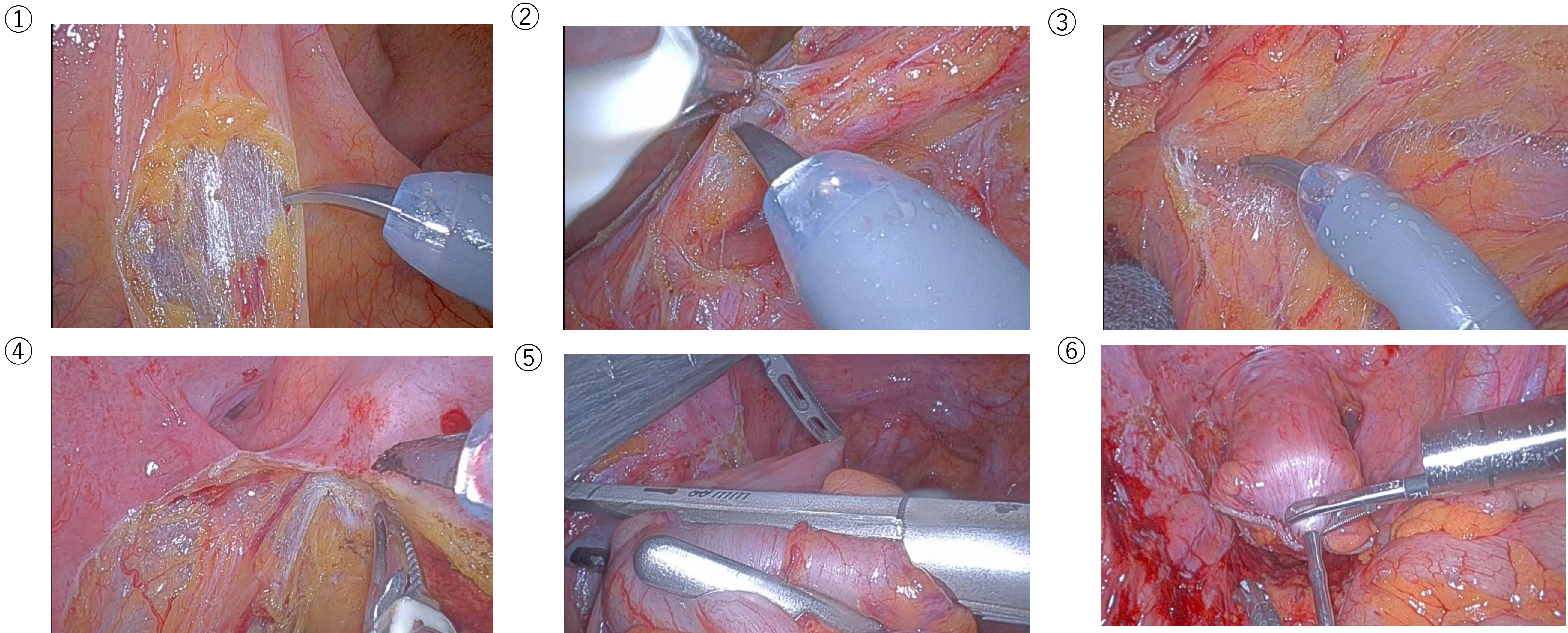
- ✓ Robot-assisted laparoscopic surgery (RALS) for colon cancer has become widely adopted in Japan.
- ✓ However, further technical evolution of RALS is still anticipated.
- ✓ We developed a novel approach using only two incisions, termed **dual-incision robot-assisted laparoscopic surgery (D-RALS)**, and report our initial experience.

Methods



- Port placement and device configuration are shown in the figure on the left
- The procedure is performed using the **two-left technique**
- A **grasping forceps** is preferable for the **4th robotic arm**
- Therefore, a **double-bipolar configuration** is recommended
- The remaining surgical steps are identical to those of a **standard sigmoid colectomy**
- **Bowel transection** is performed using a **stapler inserted through the 4th arm**

Surgical technique



Results

No	Sex	age	BMI	Location	operation	Op time	bleeding	complication
1	Female	74	22	RS	HAR	148	1	none
2	Female	48	24	Ra	LAR	167	26	none
3	Male	52	24	Ra	LAR	172	11	none

Conclusion

- This study suggest that D-RALS is a feasible and safe technique
- It may be an alternative surgical option in selected patients
- Allows reduction of abdominal incisions while maintaining oncological adequacy