Techniques optimized for robotic surgery in right hemicolectomy of the colon

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SAGES 2025

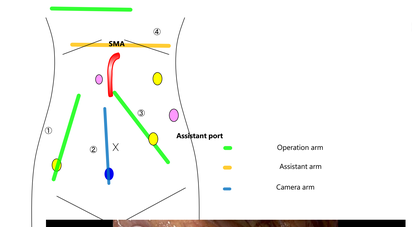
Backgrounds & Aims

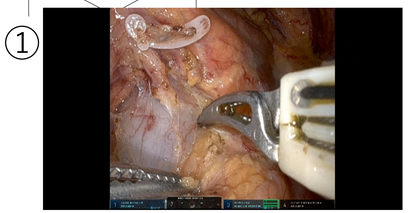
✓Robotic Surgery for Colorectal Cancer in Japan is Increasing Rapidly

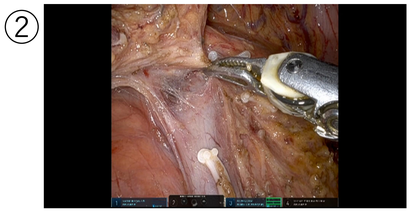
✓Robotic surgery for right-sided colon cancer has room for improvement in approach, devices used

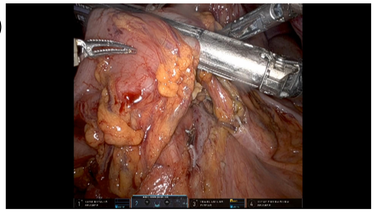
✓Pancreatic guide Median Cordal（PaMC） Approach optimized for robotic surgery was introduced.

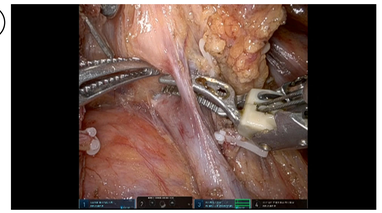
Methods

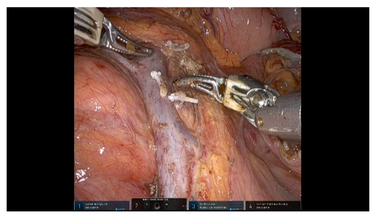












surgical procedures

①SMV confirmed with pancreas as a guide

②Confirmation of Surgical trunk by medial approach

③Preceding transverse colon resection

④Dissect lymph nodes in the MCA region from the patient's right side and perform TME

⑤SMA/SMV after completion of dissection

Results

		operation approach		
		median (N=17)	PaMC(N=7)	*p*-value
Age		71.1(41-86)	68.1(44-75)	0.76
Sex	Male	9	4	
	Female	8	3	
Location	C	0	0	0.09
	A	12	4	
	T	5	3	
pStage	I	6	2	0.56
	II	8	4	
	III	3	1	
operation time		303	233	0.021
blood loss		143	81	0.036
HLN		22.9	28.1	0.041
length of day in gas		2.6	1.7	0.043
length of hospital stay		12.5	11	0.77
leakage(%)		1	0	0.35

PaMC compared with midian-approach
✓Less blood loss
✓Shorter hospital stay
✓No significant differences in complications
✓Greater number of harvested lymph nodes

Conclusion

- PaMC approach has superior short-term results compared to conventional methods
- The PaMC approach is associated with fewer complications and a greater number of lymph nodes dissected, which can be expected to improve long-term outcomes.
- Suggested that the PaMC approach is suitable for robots