Safe Laparoscopic Appendectomy Performed by General Surgery Residents

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BACKGROUND

Nowadays, laparoscopic appendectomy is frequently performed by US general surgery residents. However, general surgery residents in Thailand have far fewer experiences in laparoscopic appendectomy.

OBJECTIVES

Aim of our study was to investigate the effects of fresh cadaveric training program on the proficiency of general surgery residents in laparoscopic appendectomy.

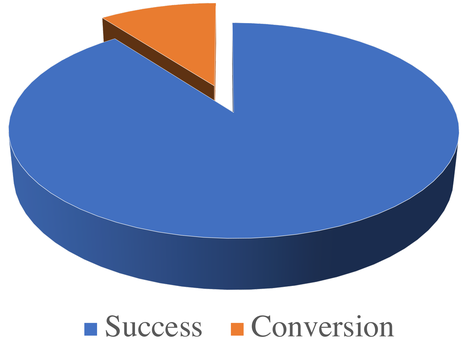
METHODS

We set up a fresh cadaveric skill training in laparoscopic appendectomy (LA) for senior senior residents. Then, we retrospectively reviewed the outcomes of LA and open appendectomy (OA).

- Fresh cadaveric workshop in LA in DEC 2020
- Retrospectively review the outcomes of OA and LA
- Between JAN 2021 and JUN 2021
- Conversion rate, complicated appendicitis, operative time, length of stay
- Data analysis

RESULTS

90% Success rate



	OA (N=47)	LA (N=39)	p value
Mean operative time (minutes)	83	67	<0.001
Length of hospital stay (days)	5.7	4.0	0.004
Complicated appendicitis (percent)	40% (19/47)	19% (7/39)	0.034
Reoperation rate (N)	0	0	1.000
Readmission rate (N)	0	0	1.000

Conversion	Complicated appendicitis		p value
	No	Yes	
No	32	3	
Yes	0	4	<0.001

CONCLUSION

Fresh cadaveric skill training program in LA can enhance resident skill and maintain patient safety. After the program, we can entrust general surgery residents to perform LA without supervision. This strategy is safe and can stimulate surgical autonomy.

REFERENCES

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DISCLOSURES

We have no conflict of interests