



CASE REPORT

Introduction of a Glove-Finger Extraction Option for Laparoscopic Appendectomy

Padmike Dayananda*, Jacinta Drew and Jacinta Cover

Surgical Registrar, Bunbury Regional Hospital, Perth, Australia



*Corresponding author: Dr. Padmike Dayananda, MBBS, MRCSA (UK), Surgical Registrar, Bunbury Regional Hospital, Bunbury, Perth WA 6230, Australia, Tel: +61404748272, E-mail: drpadmike@gmail.com

Abstract

The cost of the procedure of laparoscopic appendectomy is significantly higher than that of open surgery. Costing includes instruments, duration of surgery, and the potential for requiring conversion to open. Reducing procedure costs in simple ways will better enable laparoscopic appendectomy to be cost-effective in Regional Hospitals.

Keywords

Laparoscopic appendectomy

glove for the endocatch/endopouch. Introduce the glove finger into the peritoneal cavity through the 12 mm umbilical port, using grasping forceps. Slide the dissected appendix into the glove-finger pouch, clamp across the opening of the pouch with a grasping forcep, then extract through the 12 mm port under laparoscopic vision [1-4].

This has been utilised with three initial patients (Figure 1, Figure 2 and Figure 3).

Outcome

The three patients were discharged the next day without complications or pain. They remained well as confirmed at review three weeks' post-surgery. There

Method and Approach

An endocatch/endopouch is conventionally used when removing the dissected appendix. The glove-finger technique substitutes the middle finger of size 8.5



Figure 1: Introduction of appendix to the glove-finger.



Figure 2: Catches glove finger at the edge by a grasper.



Figure 3: Extraction through umbilical port.

was no identified difference in surgical time when comparing the glove-finger extraction method and use of a conventional endocatch/endopouch.

The cost of a pair of size 8.5 sterile gloves is approximately one fiftieth of that of a conventional endocatch/endopouch (approximately 1AUD vs. 50AUD).

Conclusion

Using a simple glove finger as the pouch for removal of the dissected appendix is potentially a significant cost saving.

Ethical Statement

Informed consent was obtained from the patient for publication of this case report and accompanying images.

References

1. Sharique Nazir, Alex Bulanov, Meghedy Shanazarian, Jordan K Magruder (2016) Glove-finger extraction technique for laparoscopic appendectomy: high-quality cost-conscious surgery. *Society of American Gastrointestinal and Endoscopic Surgeons* 2016.
2. Ian AM Hennessey (2012) Modification of glove-finger technique for appendectomy.
3. Mario Mendoza-Sagaon, Flurim Hamitaga, Yannick Hurni, Natalia Voumard (2016) Appendix extraction after laparoscopic appendectomy in children: An easy, safe, and inexpensive technique. *J Pediatr Surg* 51: 341-343.
4. GD Tebala (2008) Specimen removal after laparoscopic appendectomy: A cheap trick. *European Review for Medical and Pharmacological Sciences* 12: 55-57.