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Basic Study

Peroral traction-assisted transanal NOTES rectosigmoidectomy followed by intracorporeal colorectal anastomosis in a live porcine model

NOTES rectosigmoidectomy in a live porcine model

Abstract

BACKGROUND

Compared to traditional open surgery, laparoscopic surgery has become a standard approach for colorectal cancer due to its great superiorities including less postoperative pain, a shorter hospital stay and greater quality of life. In 2007, Whiteford *et al* reported the first NOTES sigmoidectomy using transanal endoscopic microsurgery. To date, all cases of NOTES colorectal resection have included a hybrid laparoscopic approach with the use of established rigid platforms.

AIM

To introduce a novel technique of peroral external traction-assisted transanal NOTES rectosigmoidectomy followed by intracorporeal colorectal end-to-end anastomosis by using only currently available and flexible endoscopic instrumentation in a live porcine

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The mean distance from the anal verge to **colorectal anastomosis** in the P-**NOTES** group was significantly less than that in the E-**NOTES** group (2.9 vs. 17.6 cm, $P < 0.001$).

NOTES transanal rectal cancer resection using transanal ...

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Methods: A 2-week survival study evaluating **transanal** endoscopic rectosigmoid resection with stapled **colorectal anastomosis** was conducted with swine using the **transanal** ...

Pure NOTES Rectosigmoid Resection: Transgastric Endoscopic ...

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The mean distance from the anal verge to **colorectal anastomosis** in the P-**NOTES** group was significantly less than that in the E-**NOTES** group (2.9 vs. 17.6 cm, $P < 0.001$).

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The mean distance from the anal verge to **colorectal anastomosis** in the P-**NOTES** group was



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Transcolonic natural orifice surgery: Peri-rectal NOTES ...

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NOTES survival study in a **porcine model** (with video). ... for **intracorporeal anastomosis**. ... was obtained at the end of the **NOTES** procedure. **Colon** mucosal biopsies obtained immediately after the ...



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Natural orifice transluminal **endoscopic** surgery (NOTES) involves transluminal resection of an abdominal viscus using a **flexible** endoscope through a **natural orifice** (mouth, vagina, anus, ...

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The development of new **endoscopic** platforms and devices led to new techniques such as **natural orifice** transluminal **endoscopic** surgery technique (NOTES), **peroral endoscopic** myotomy (POEM ...

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<https://www.liebertpub.com/doi/10.1089/lap.2019.29028.abstracts>

A 3-D lung **model** was created with super-soft resin using the vacuum injection method (Fig.a). This material is so soft that surgeons can perform **endoscopic** surgical manipulations on this **model**. This lung **model** was placed in a rapid-prototyped pediatric chest **model** that had been developed using CT data of a one-year-old infant.

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endoscopic submucosal dissection of malignant non-pedunculated **colorectal** lesions; **endoscopic** management of early **colorectal** cancer: comparison between piecemeal mucosectomy and hybrid submucosal dissection in a single tertiary medical centre in northern italy; **endoscopic** full-thickness resection (eftr) using ftrd system for colonic lesions.

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