



Universität
Basel

Research Project

Stapler-assistierte Mukosektomie in inverser NOTES Technik bei Barrett-Oesophagus

Third-party funded project

Project title Stapler-assistierte Mukosektomie in inverser NOTES Technik bei Barrett-Oesophagus

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Organisation / Research unit

Bereich Operative Fächer (Klinik) / Allgemein- und Viszeralchirurgie (Oertli)

Department

Project start 01.10.2015

Probable end 30.09.2016

Status Completed

Background:

Extensive endoscopic mucosal resection for Barrett's esophagus may lead to stenosis. Laparoscopic, transgastric, stapler-assisted mucosectomy with the retrieval of a circumferential specimen is proposed.

Methods:

SAM was evaluated in two phases. The feasibility of SAM and the quality of specimens were assessed in eight animals. The mucosal healing was evaluated in a 6-week survival experiment comparing SAM (n=6) and EMR (n=6). The ratio of the esophageal lumen width (REL) at the resection level measured on fluoroscopy at 6 weeks divided by the width immediately after resection was compared.

Results:

In all animals, a circular mucosectomy specimen was successfully obtained, with a median area of 492 mm² and 941 mm² using a 21mm and 25mm stapler, respectively. In the survival experiment, symptomatic stenosis developed in two animals after EMR and in none after SAM. The REL was 0.27 and 0.96 for EMR and SAM, respectively.

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Conclusion:

SAM provides a novel technique for en-bloc mucosectomy in BE. In contrast to EMR, mucosal healing after SAM was not associated with stenosis up to 6 weeks after intervention.

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Add publication

Published results

3816658, Steinemann, Daniel; Zerz, Andreas; Müller, Philip; Sauer, Peter; Schaible, Anja; Lasitschka, Felix; Schwarz, Anne-Catherine; Müller-Stich, Beat; Linke, Georg, Laparoscopic transgastric circumfer-

ential stapler-assisted vs. endoscopic esophageal mucosectomy in a porcine model, 0013-726X ; 1438-8812, Endoscopy, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

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