

Name of Journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 63842

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Efficacy of hybrid endoscopic submucosal dissection with SOUTEN in gastric lesions: an *ex vivo* porcine model basic study

Esaki M *et al.* Efficacy of gastric hybrid ESD with SOUTEN

Mitsuru Esaki, Eikichi Ihara, Norikazu Hashimoto, Shuichi Abe, Chihoko Aratono, Noriko Shiga, Yorinobu Sumida, Hiroyuki Fujii, Kazuhiro Haraguchi, Shunsuke Takahashi, Tsutomu Iwasa, Kayoko Nakano, Masafumi Wada, Shinichi Somada, Kei Nishioka, Yosuke Minoda, Haruei Ogino, Yoshihiro Ogawa

19
Abstract

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Oct 01, 2012 · **Endoscopic submucosal dissection** (ESD) has become a standard of care in Asian countries with a high incidence of early **gastric** cancer. In North America, a prevalent disease that may similarly benefit from en bloc excision is the advanced colorectal polyp, especially large sessile or laterally spreading **lesions**.^{1, 2} Currently, these **lesions**, especially those larger than 2 cm in diameter, ...

Cited by: 26 **Author:** Christopher J. Gostout, Mary A. Knipschild

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Endoscopic submucosal dissection (ESD) is an established treatment for **gastric** neoplasias especially in regions with a high volume of **gastric** cancer. Although ESD has many advantages over **endoscopic** mucosal resection, ESD is technically more difficult and can result in severe complications. Therefor ...

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Endoscopic submucosal dissection (ESD) offers en bloc resection of early cancer or precancerous **lesions**, potentially saving patients from major organ resection, such as gastrectomy, colectomy, and ...

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Endoscopic submucosal dissection for gastric lesions ...

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Endoscopic submucosal dissection (ESD) is an **endoscopic** technique used for treatment of **gastric** superficial **lesions**.¹ It has been widely used in countries such as Korea and Japan, but its use ...

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Endoscopic submucosal dissection of gastric lesions by ...

<https://www.researchgate.net/publication/227857653...>

Methods: This is a prospective **study** comparing the differences in performing ESD using MASTER in an **ex vivo porcine stomach model** among individuals with or without experience in surgery and **endoscopy**.

Flexible platforms for natural orifice transluminal and ...

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Jun 06, 2014 · The platform has been used to perform a number of procedures, including transgastric cholecystectomy²⁰, distal pancreatectomy²¹, and **endoscopic submucosal dissection**²². The platform improves traction and countertraction of tissue in **in vivo** studies²³ and has been shown to reduce **gastric endoscopic submucosal dissection** procedural time²² ...

(PDF) Ex Vivo and In Vivo Models for Endoscopic Submucosal ...

<https://www.researchgate.net/publication/233950518...>

In this **study**, we developed an original training **model** for esophageal ESD using isolated pig esophagus and assessed this **ex vivo model** in endoscopists with experience in **gastric** ESD.

Endoluminal surgical triangulation: overcoming challenges ...

<https://link.springer.com/article/10.1007/s00464-013-3049-6> ▾

Jun 21, 2013 · Colonic **endoscopic submucosal dissection** (ESD) is challenging as a result of the limited ability of conventional **endoscopic** instruments to achieve traction and exposure. The aim of this **study** was to evaluate the feasibility of colonic ESD in a **porcine model** using a novel **endoscopic** surgical platform, the Anubiscope (Karl Storz, Tuttlingen, Germany), equipped with two working channels for ...

Dr. Hiroyuki Aihara, MD | Boston, MA | Gastroenterologist ...

<https://health.usnews.com/doctors/hiroyuki-aihara-888526> ▾

Mar 24, 2021 · Dr. Hiroyuki Aihara is a gastroenterologist in Boston, Massachusetts and is affiliated with Brigham and Women's Hospital. He received his medical degree from Other and has been in ...

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Oct 01, 2012 · Preliminary data demonstrate that **endoscopic submucosal dissection** (ESD) may be simplified and made safer by a **hybrid** technique combining **submucosal endoscopy** with a mucosal flap...

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[6] [7] [8] It is therefore with great interest that we read in this month's **Gastrointestinal Endoscopy** the study by Arimoto et al, 6 "Evaluation of colorectal **endoscopic submucosal dissection** ...

[Endoscopic Submucosal Dissection \(ESD\) Versus Simplified ...](#)

<https://www.researchgate.net/publication/261218127...>

The development of **endoscopic submucosal dissection** (ESD) has enabled en bloc resection of **lesions** regardless of size and shape. However, ESD of colorectal tumors is technically difficult.

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Endoscopic submucosal dissection (ESD) is an established treatment for **gastric neoplasias** especially in regions with a high volume of **gastric cancer**. Although ESD has many advantages over **endoscopic**...

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Endoscopic submucosal dissection

Surgical Procedure

Endoscopic submucosal dissection is an advanced surgical procedure using endoscopy to remove gastrointestinal tumors that have not entered the muscle layer. ESD may be done in the esophagus, stomach or colon. Application of endoscopic resection to gastrointestinal neoplasms is limited to lesions with no risk of nodal metastasis. Either polypectomy or endoscopic mucosal resection is beneficial for patients because of its low level of invasiveness. However, to ensure the curative potential of these treatment modalities, accurate histopathologic assessment of the resected specimens is essential because the depth of invasion and lymphovascular infiltration of the tumor is associated with considerable risk for lymph node metastasis. For accurate assessment of the appropriateness of the therapy, en bloc resection is more desirable than piecemeal resection. For a reliable en bloc resection of GI neoplasms, a new method of ER called endoscopic submucosal dissection has been developed.



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