

1 Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 43152

Manuscript Type: CASE REPORT

Development of a biliary multi-hole self-expandable metallic stent for bile tract diseases: A case report

Kobayashi M. Multi-hole self-expandable metallic stent

Makoto Kobayashi

Abstract

BACKGROUND

Uncovered stents used for malignant obstructions in the biliary tree, especially in the hilar area, are prone to obstruction by tumor ingrowths. In comparison, however, covered stents may block bile duct branches and are at risk of migration. We have developed a multi-hole self-expandable metallic stent (MHSEMS), with a hole in each cell, to prevent the obstruction of bile duct branches. In addition, the holes may prevent migration due to small ingrowths by reducing the tension of the membrane.

CASE SUMMARY

MHSEMS were placed in five patients with a malignant obstruction and one

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Self-expandable metallic stent - an overview | ScienceDirect Topics

<https://www.sciencedirect.com/topics/...and.../self-expandable-metallic-stent> - 翻译此页

Self-expanding metallic stents (SEMS) are possible alternatives for persons with esophageal, ... This membrane is designed to prevent tumor in **growth** and prolong stent patency.²⁷ Table 4.2. Self-expandable **biliary** metal stents include diffuse peritoneal carcinomatosis, **multiple** areas of obstruction, and perforation.

Role of Fully Covered Self-Expandable Metal Stent for Treatment of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3341463/> ▾ 翻译此页

作者: N Pausawasadi - 2012 - 被引用次数: 23 - 相关文章

2012年4月23日 - Endoscopic therapy by balloon dilation and placement of **multiple** ... The **self-expandable metal stent** (SEMS) has traditionally been used for ... Keywords: **Biliary** tract disease, Benign stricture, Stent. Go to: ... With the **evolution** of stent design, partially covered and fully covered SEMS have been **developed**.

Current Status of Biliary Metal Stents - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4821525/> ▾ 翻译此页

作者: HS Nam - 2016 - 被引用次数: 14 - 相关文章

2016年2月25日 - Keywords: **Self expandable metallic stents**, **Biliary** stenting, Malignant, Benign ... Since their **development**, **biliary** stents have been widely used to In case of refractory bile leaks, **multiple** stents or SEMS could be considered.

缺少字词: hole

Development of Biliary and Enteral Stents by the Korean ... - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4821526/> ▾ 翻译此页

作者: CS Shim - 2016 - 相关文章

2016年3月9日 - Keywords: **Biliary** stent, Enteral stent, **Self expandable metallic stents**, Korea side **holes**, but with **multiple** side flaps intended to prevent stent ...

Pancreatic and biliary stents - Gastrointestinal Endoscopy

[https://www.giejournal.org/article/S0016-5107\(12\)02753-8/pdf](https://www.giejournal.org/article/S0016-5107(12)02753-8/pdf) - 翻译此页

作者: PR Pfau - 2013 - 被引用次数: 68 - 相关文章

Most pancreatic stents have side **holes** throughout the length of the stent ... **SELF-EXPANDABLE METAL STENTS** ...

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Use of fully covered self-expanding metal stents in benign biliary ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3329614/> [▼ 翻译此页](#)

作者: J García-Cano - 2012 - 被引用次数: 11 - 相关文章

2012年4月16日 - Some FCSEMS with fins have been reported to injure the **bile duct**[12] and new **bile duct** strictures can **develop** in the upper part of the **stent**. An inferior rate of duodenal migration has been found with an anchoring flap FCSEMS compared with a model with flare ends.

An Update to Hepatobiliary Stents - NCBI

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4542081/> [▼ 翻译此页](#)

作者: BT Moy - 2015 - 被引用次数: 20 - 相关文章

Furthermore, there are many subtypes of plastic and **metal stents** to choose ... non-malignant hilar obstructions, distal **bile duct** obstruction, benign **biliary** ... Flanged stents can be straight, angled, or curved, and they can have single or **multiple** flaps with side **holes** Nine patients **developed** obstruction during the **study**.

Endoscopic multiple metal stenting for the treatment of enteral leaks ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4980642/> [▼ 翻译此页](#)

作者: M Mutignani - 2016 - 被引用次数: 3 - 相关文章

Abstract. Between April 2013 and October 2015, 6 patients **developed** periampullary duodenal or jejunal/**biliary** leaks after major abdominal surgery. ... One patient died two days after the procedure due to severe, pre-existing, sepsis. The **stents** were removed endoscopically in four weeks in four patients.

Suspended over length biliary stents versus conventional pla ...

https://journals.lww.com/.../Suspended_over_length_biliary_stents_versus.44... - [翻译此页](#)

作者: X Yan - 2018 - 相关文章

Plastic stents are recommended for benign common **bile duct** stricture and ... **Self-expandable metal stents** (SEMSs) have lower rates of occlusion and less need for ... Therefore, this **study** aimed to compare efficacy and medium-term patency ... tube (8.5Fr) with **multiple** side-**holes** (Boston Scientific Corporation, Spencer, IN) ...

[PDF] Biliary stents - ESGE

https://www.esge.com/assets/.../2014_biliary_stents_models_methods.pdf - [翻译此页](#)

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An Update to Hepatobiliary Stents - NCBI

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作者: BT Moy - 2015 - 被引用次数: 20 - 相关文章

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Outcome of stenting in biliary and pancreatic benign and malignant ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4533036/>  翻译此页

作者: B Mangiavillano - 2015 - 被引用次数: 13 - 相关文章

跳到 **BENIGN BILIARY DISEASES** - In this setting the use of **self-expandable metal stent** ... of the stricture and the size of the **bile duct** below the stricture. ... However, in early **reports**, stent migration was common because of the nature of the FCSEMS used. ... (376 **cases**) with **multiple** PSs (570 **cases**) in patients with ...

Future developments in biliary stenting - NCBI

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3699027/>  翻译此页

作者: CD Hair - 2013 - 被引用次数: 13 - 相关文章

2013年6月24日 - The **development** of **self-expandable** bioabsorbable **biliary stents** is clearly a challenging area but may eventually prove to be helpful in situations such as **bile** leaks or benign strictures. ... FCSEMS are also being used in other benign **biliary** indications such as iatrogenic bleeding and perforation.

Suspended over length biliary stents versus conventional pla ...

https://journals.lww.com/.../Suspended_over_length_biliary_stents_versus.44... - 翻译此页

作者: X Yan - 2018 - 相关文章

Plastic stents are recommended for benign common **bile duct** stricture and ... **Self-expandable metal stents** (SEMSs) have lower rates of occlusion and less need for ... Therefore, this **study** aimed to compare efficacy and medium-term patency the presence of **multiple** side-**holes** in an extended stent improves bile outflow.

Pancreatic and biliary stents - Gastrointestinal Endoscopy

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4991951/>  翻译此页