WallFlex™ Biliary RX Stent

Scientific Scientific

Fully, Partially and Uncovered Self-Expanding Metal Stents



WallFlex Biliary RX Stent

Fully, Partially and Uncovered Self-Expanding Metal Stents

The WallFlex Biliary RX Stent is a technology built on science and innovation to expand options for the palliative treatment of biliary strictures produced by malignant neoplasms.

Place your trust in

Experience
Pioneering designs
Clinical evidence

Pioneering Designs

stent

Migration Resistance

Looped and flared stent ends designed to reduce the risk of tissue trauma and stent migration.

Tissue In-Growth Prevention

Closed cell construction and Permalume[™] covered options designed to resist tissue in-growth.^{4,6}

Flexibility

Platinol™ Wire construction provides greater flexibility aid placement in tortuous anatomies.*

Radial Force

Radial force helps maintain stent patency and resist migration.

Removability

Fully and partially covered stents have an integrated retrieval loop, and may be removed during the initial placement procedure.**





delivery system

Stent Placement Accuracy

The RX biliary delivery system is reconstrainable up to 80% of deployment to aid in repositioning*** and is designed to facilitate physician control and locking of the guidewire.

Endoscopic Placement

Closed cell construction and Permalume covered options designed to resist tissue in-growth.^{4,6}

Fluoroscopic Visualization

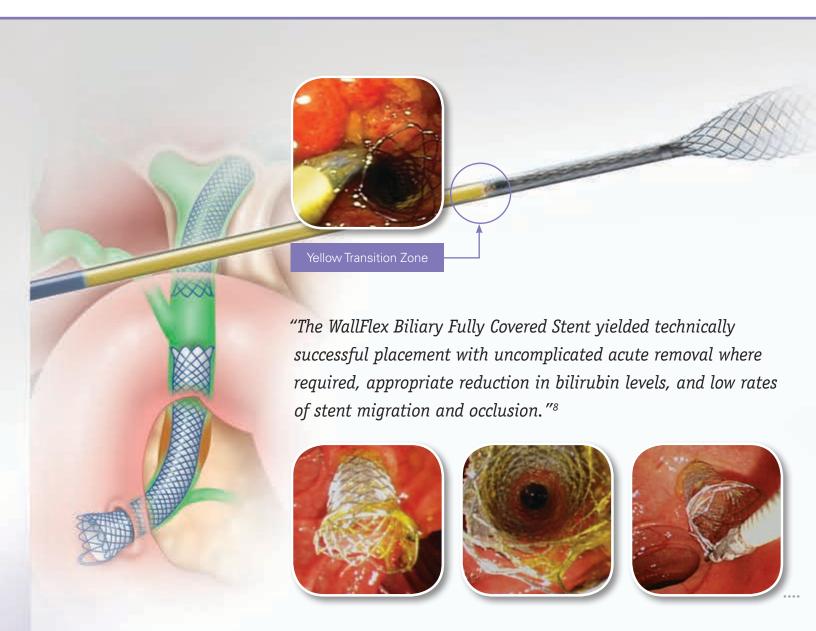
The four fluoroscopy markers and yellow transition zone are designed to aid in stent placement accuracy when deployed using endoscopic visualization.

^{*} Flexibility varies by size of stent

^{**} In the event of incorrect positioning during the initial stent placement procedure, the partially covered and fully covered stent options may be removed using forceps to grasp the retrieval loop on the end of the stent. Warning: No warranty is made with regard to removability of this device by endoscopic means or otherwise. Indications, contraindications, warnings and instructions for use can be found in the product labeling.

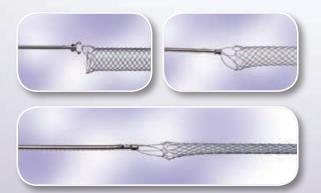
^{***} A stent cannot be reconstrained after the reconstrainment line has been exceeded

^{****} Endoscopic and fluoroscopic images courtesy of Adrian Hatfield, MD andThomas Kowalski, MD



The Integrated Retrieval Loop

When tension is applied to the retrieval loop using forceps, it causes the entire length and diameter of the stent to narrow to help facilitate removal of the stent during the initial placement.**



The Platinol™ Wire Difference

The unique Platinol Wire construction of the WallFlex™ Biliary RX Stent offers:

- Flexibility to aid placement in tortuous anatomies and maintain luminal patency
- Enhanced full length radiopacity to aid visibility during stent placement
- Radial force helps maintain stent patency and resist migration^{4,6}



Clinical Evidence*

covered or uncovered metal stents

"Covered SEMS are associated with more reduced resource utilization than uncovered SEMS in the treatment of malignant biliary obstruction. This may in part be due to lower incidence of cholangitis, lower rates of hospitalization, and shorter length of stays." 10

"...[C]overed SEMS [WallFlex Biliary RX Partially Covered Stent]...had a longer duration of patency than uncovered SEMSs, which recommends their use in the palliative treatment of patients with biliary obstruction due to pancreatic carcinomas."

"...the present data clearly suggest that covered stents overcome tumor ingrowth and reduce the rate of stent occlusion. Furthermore, the covered metal stent significantly reduced the number of reinterventions. It may contribute to improvement in quality of life of patients. Consequently, the total cost was also significantly smaller in the covered group."

Clinical Evidence*

plastic or metal stents

Clinical literature reports ease of placement, clinical benefits and cost effectiveness of endoscopically-placed biliary metal stents as superior to plastic stents for most patients with unresectable biliary malignancy. 1,2,4,5,6

"Metallic stent performance was superior to plastic for hilar tumor palliation with respect to short-term outcomes, independent of disease severity, Bismuth class or drainage quality."

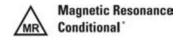
"Metal stent placement is the most effective treatment of inoperable malignant common bile duct stricture..."²

"The more effective [covered] SEMS are recommended in unresectable patients with malignant common bile duct strictures, who survive a median of 4.5 months."

WallFlex Biliary RX Stent

Fully, Partially and Uncovered Self-Expanding Metal Stents

Fully covered, partially covered and uncovered WallFlex Biliary RX Stents are available in multiple sizes to accommodate different anatomical and clinical requirements. These stents may be used with short or long guidewires.



*Non-clinical testing has demonstrated that the WallFlex Biliary Stent System with Anchor Lock Delivery System is MR Conditional. It can be scanned safely under the conditions outlined in the Directions For Use.

Guidewire

Ordering Information

Fully Covered Stents with Permalume Covering



Order Number	Diameter (mm)	Length (mm)	(mm) (PC Only)	(F)	Diameter
M005 7050 0	8	60	-	8.5F (2.83mm)	.035" (.89mm)
M005 7051 0	8	80	-	8.5F (2.83mm)	.035" (.89mm)
M005 7052 0	10	40	-	8.5F (2.83mm)	.035" (.89mm)
M005 7053 0	10	60	-	8.5F (2.83mm)	.035" (.89mm)
M005 7054 0	10	80	-	8.5F (2.83mm)	.035" (.89mm)

Covered Length

Catheter Diameter

Partially Covered Stents with Permalume Covering



M005 7070 0	8	60	48	8.5F (2.83mm)	.035" (.89mm)
M005 7071 0	8	80	68	8.5F (2.83mm)	.035" (.89mm)
M005 7072 0	10	40	28	8.5F (2.83mm)	.035" (.89mm)
M005 7073 0	10	60	48	8.5F (2.83mm)	.035" (.89mm)
M005 7074 0	10	80	68	8.5F (2.83mm)	.035" (.89mm)

Uncovered Stents



M005 7060 0	8	40	-	8.0F (2.67mm)	.035" (.89mm)
M005 7061 0	8	60	-	8.0F (2.67mm)	.035" (.89mm)
M005 7062 0	8	80	-	8.0F (2.67mm)	.035" (.89mm)
M005 7063 0	8	100	-	8.0F (2.67mm)	.035" (.89mm)
M005 7089 0	10	40	-	8.0F (2.67mm)	.035" (.89mm)
M005 7064 0	10	60	-	8.0F (2.67mm)	.035" (.89mm)
M005 7065 0	10	80	-	8.0F (2.67mm)	.035" (.89mm)
M005 7066 0	10	100	-	8.0F (2.67mm)	.035" (.89mm)

Recommended Guidewires

Hydra Jagwire® Guidewire Stiff Shaft .035" (.89mm)–260cm

M0055**602**1: Straight Dream Tip[™] M0055**603**1: Angled Dream Tip

Hydra Jagwire Guidewire Stiff Shaft .035" (.89mm)-450cm

M0055**606**1: Straight Dream Tip M0055**607**1: Angled Dream Tip

References:

- Perdue D, Freeman M, DiSario J et al, Plastic Versus Self-expanding Metallic Stents for Malignant Hilar Biliary Obstruction. Journal of Clinical Gastroenterology, October 2008; Vol. 42, No. 9, 1040-1046.
- Kassis et al. Plastic or metal stents for malignant stricture of the common bile duct? Results of a randomized prospective study. GI Endoscopy, 2003; 57: 178-182.
- 3. Waschke K.A., Da Silviera E., Toubouti Y., Rahme E, Martel M, Barkun, A (Presenter), Poster MON-E-397, UEGW 2006.
- 4. Moss A.; Morris E.; MacMathuna P.; Palliative biliary stents for obstructing pancreatic carcinoma. Cochrane Database Systematic Review, 25 Jan. 2006.
- 5. Kahaleh M., Efficacy and complications of covered Wallstents in malignant distal biliary obstruction. Gastrointestinal Endoscopy, 2005; 61: 528-533.
- Soderlund K., Linder S.; Covered metal versus plastic stents for malignant common bile duct stenosis: a prospective, randomized, controlled trial. Gastrointestinal Endoscopy, 2006; 63: 986-995.
- Isayama H., Komatsu Y., Tsujino T., Sasahira N., Hirano K., Toda N, et al. A prospective randomized study of "covered" versus "uncovered" diamond stents for the management of distal malignant biliary obstruction. Gut 2004; 53: 729-734.
 Peterson et al. A Multicenter, Prospective Study of a New Fully Covered Expandable Metal Biliary Stent for the Palliative Treatment of Malignant Bile Duct Obstruction. Gastroenterolory Research and Practice, 2013;2013:642428.
- 9. Kitano et al. Covered Self-Expandable Metal Stents with an Anti-Migration System Improve Patency Duration without Increased Complications Compared with Uncovered Stents for Distal Biliary Obstruction Caused by Pancreatic Carcinoma: A Randomized Multicenter Trial. The American Journal of Gastroenterology, 2013 Nov;108(11):1713-22.
- Ryou M, Kumar N, Ou A, Ryan M, and Thompson C. Covered Versus Uncovered Metal Stents for Unresectable Malignant Biliary Obstruction: A Comparison of Resource Utilization. Gastrointestinal Endoscopy, 2012; 75; AB403.

Dream Tip, Hydra Jagwire, Permalume, Platinol, and WallFlex are registered or unregistered trademarks of Boston Scientific Corporation or its affiliates. All other trademarks are property of their respective owners.

Indications, Contraindications, Warnings and Instructions for Use can be found in the product labeling supplied with each device.

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician.

WARNING: The safety and effectiveness of this device for use in the vascular system has not been established.

The WallFlex Biliary Stent System is FDA-cleared in the US, and is indicated for use in the palliative treatment of biliary strictures produced by malignant neoplasms. The WallFlex Biliary Stent System is CE Marked (and approved in other regions – check for local availability), and is indicated for the palliative treatment of biliary strictures produced by malignant neoplasms and the fully covered stents are also indicated for treatment of benign biliary strictures.



Advancing science for life[™]

Boston Scientific Corporation
One Boston Scientific Place
Natick, MA 01760-1537
www.bostonscientific.com/endo-resources

Ordering Information 1.888.272.1001

©2014 Boston Scientific Corporation or its affiliates. All rights reserved.

ENDO-211305-AB 2500 February 2014