# apr@medtech

Habib<sup>™</sup> EndoHPB



# APR Medtech

#### OUR COMPANY

APR Medtech is a specialist independent medical technology company providing high quality medical devices and support services to the NHS and private healthcare sector.

Our products offer intelligent clinical solutions designed to help advance healthcare and improve patient outcomes. Our extensive experience within the healthcare industry, deep knowledge of the clinical areas in which we work and a genuine passion for what we do, ensures the delivery of real value to our customers.

#### SERVICE AND SUPPORT

One of the key elements of our customer support service is product training. We want to be sure that our products are always used in the optimal way to the benefit of both our customers and their patients.

If you would like one of our team to visit, either to attend a procedure or run a training session on one of our products, then please get in touch. We will be more than happy to oblige.

#### **GET IN TOUCH**

For additional information please call us on 01844 340 620 or email info@aprmedtech.com

Additional information is also available on our website: www.aprmedtech.com

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# Habib<sup>™</sup> EndoHPB

#### RFA FOR THE MANAGEMENT OF MALIGNANT BILIARY OBSTRUCTION

The Habib<sup>™</sup> EndoHPB is a novel endoscopic bipolar radiofrequency (RF) catheter used to ablate tissue in the gastrointestinal tract, including the bile ducts. Used by the endoscopist, it allows partial destruction of the tumour prior to stent insertion which can result in longer stent patency. The device can also be used to clear obstructed metal stents.

#### **PRODUCT OVERVIEW**

The Habib<sup>™</sup> EndoHPB has an 8Fr (2.7mm) diameter, 180cm useable length and two stainless steel electrodes at the distal tip.

It is compatible with endoscopes that have a working channel of 3.2mm or greater, and is a single-use device.

The safety and efficacy of biliary RFA using the Habib<sup>™</sup> EndoHPB has been established by a growing number of publications in medical journals.

To date, the device has been successfully used to treat thousands of patients throughout the world.



11,000+ Habib™ EndoHPB catheters sold worldwide<sup>1</sup> Safety and efficacy demonstrated in more than 20 published clinical articles<sup>2</sup>

Compatible with commonly used RF generators (inc. Erbe, Olympus)

CE marked & FDA 510(k) approved

1. Data on file with Emcision Ltd

2. Full list available online at www.aprmedtech.com

## HABIB™ ENDOHPB

#### TREATING PRIMARY STRICTURES



The Habib<sup>™</sup> EndoHPB connects to commonly used RF generators using a special adaptor cable.



Using X-ray guidance the probe is placed over a 0.035" guidewire and its two electrodes positioned at the site of the stricture.



Energy is applied causing tissue necrosis, or cell death at the target site.



The stricture is cleared, allowing free flow of bile.



Reposition and repeat as needed to cover the full stricture.



Stent placement post ablation is essential.

### HABIB<sup>™</sup> ENDOHPB

#### TREATING OCCLUDED SEMS



Another application of the device is to clear metal stents that have become blocked by overgrown tissue.



Ablation is performed in the same way as for primary stricture treatment.



This time an inflated balloon is passed afterwards performing debridement to clear away the dead tissue.



If required, the balloon catheter may be exchanged with the Habib<sup>™</sup> EndoHPB and RF reapplied.



Clearance of an obstructed SEMS with the Habib<sup>™</sup> EndoHPB

#### CLINICAL EVIDENCE

Kahaleh et al. reported results from a collaborative registry of 69 patients with unresectable neoplastic lesions and malignant biliary obstruction. Between 2010 and 2013 these 69 patients underwent 98 radiofrequency ablation sessions plus insertion of a stent.

Results showed a statistically significant improvement in ductal diameter post-ablation, with stricture improvement significantly greater in pancreatic-associated strictures.<sup>1</sup>

In a retrospective case-control study, Kallis et al. reported median survival was 226 days in patients who had radiofrequency ablation and stenting with self-expanding metal stents (SEMS), and a median of 123.5 days survival for the stenting alone group (SEMS). The authors suggested that there may be early survival benefit.<sup>2</sup>

A randomised prospective trial is in progress in China and early results support the previously published survival data.<sup>3</sup>

#### SURVIVAL DATA SUMMARY

Matched control and randomised studies.

Author	Study type	RF group	% survival	p-value
Kahaleh, M. et al. (Dig Dis Sci 2014)	Matched with SEER database for malignancy and disease stage at diagnosis	RF group n = 69 Matched = SEER database	Cholangiocarcinoma: Untreated = 6.2 months RF treated = 17.7 months Pancreatic cancer: Untreated = 5.9 months RF treated = 14.6 months	<0.0001
Wang, A. Y. et al. (Clin Endosc 2014)	Unmatched RF vs PDT	RF n = 16 PDT n = 32	RF treated = 9.6 months PDT treated = 7.5 months	0.8
Westaby, D. et al. ( <i>Dig Dis Sci 2014</i> )	Matched controls	RF group n = 23 Matched n = 46	RF treated = 226 days Untreated = 123.5 days	0.010
Hu, B et al. (Mid-term results, Gastro Endosc 2016)	Prospective Randomised	RFA + stent n = 31 Stent alone n = 32	RFA + stent = 311 days Stent alone = 172 days	0.012

1. Kahaleh et al, Impact of Radiofrequency Ablation on Malignant Biliary Strictures: Results of a Collaborative Registry. Dig Dis Sci. 2015.

2. Kallis et al, Analysis of Endoscopic Radiofrequency Ablation of Biliary Malignant Strictures in Pancreatic Cancer Suggests Potential Survival Benefit. Dig Dis Sci. February 2015.

3. Bing Hu et al, Endobiliary Radiofrequency Ablation Improve Overall Survival of Cholangiocarcinoma: A Multi-Center Randomized Control Study. Gastrointestinal Endoscopy, Volume 83, No. 55: 2016

#### **TEMPERATURE EVOLUTION**



#### Habib<sup>™</sup> EndoHPB - No Stent

The temperature evolution was determined from 50 ablations with the generator set at 10 watts. The thermocouple probe was placed between the distal electrode and the tissue.

#### Habib<sup>™</sup> EndoHPB - in Metallic Stent

The temperature evolution was determined from 15 ablations with the generator set at 10 watts. The thermocouple probe was placed between the distal electrode and the metallic stent.

#### ORDERING INFORMATION

Product code	Description	Size (Fr)	Length (cm)	Box qty
6800	Habib™ EndoHPB Catheter	8Fr	180	1
3700	Habib™ Percutaneous HPB Catheter	8Fr	90	1

#### GENERATOR AND ADAPTOR CABLE SET-UP

The Habib<sup>™</sup> EndoHPB can be used with a range of commonly available RF generators. The purchase of a corresponding adaptor cable is required. Please contact APR Medtech for further information.

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For additional information, or to order one of our products, please call us on 01844 340 620 or email info@aprmedtech.com

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