

ameinternational A Q3 Medical Company



ARCHIMEDESBiodegradable Biliary and Pancreatic Stent

The **ARCHIMEDES** stent is a **Biodegradable Hepatopancreatobiliary stent** intended to drain obstructed biliary and pancreatic ducts. The patented helical design and open centre lumen **provide dual drainage channels** for bile and pancreatic fluid while the outer helical surface **facilitates side branch flow** while maintaining luminal patency.

Enhanced features

- > Different degradation profiles to treat a variety of indications and underlying diseases
- > Sinusoidal helical-channel design to allow bile to flow on the outside of the stent
- > Mitigation of stent occlusion due to the degradation process of the stent materials
- > **Better simulated flow rates** than tested plastic stent predicates
- > **Better simulated migration resistance** than tested plastic stent predicates
- > **Equivalent crush resistance** to tested plastic stent predicates
- > **Uniform controlled degradation** to support improved clinical outcomes and reduced cost.

In a 53 patient single arm safety and efficacy study, bilirubin levels were **reduced by 25.6% exceeding the 20% clinical success criterion.** The quality of life score **improved from 3.7 to 7.9.** Procedural success was rated at **1.4** (**good to excellent**). And **technical success was achieved in all 53 patients.**²

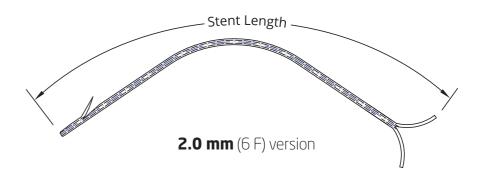


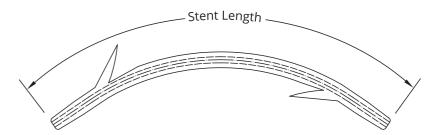


DEGRADATION PROFILES

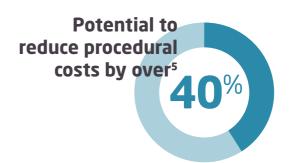
Recommendation for the use of ARCHIMEDES stent degradation profiles to potential underlying diseases

	Stent Degradation Profiles ³	Minimal Strength Retention⁴	Underlying diseases with obstructed biliary duct	Underlying diseases with obstructed pancreatic duct
FAST degrading stent		12 days	Cholelithiasis / Choledocholithiasis Acute biliary pancreatitis Cholangitis Modified anatomy procedures involving biliary and pancreatic ducts such as liver transplants, Whipples and alike	Post ERCP pancreatitis Acute pancreatitis
	MEDIUM degrading stent	egrading stent 20 days • Resectable CBD obstruction • Cholangitis	Biliary leaks Cystic duct leaks Resectable CBD obstruction Cholangitis Modified anatomy procedures involving biliary and pancreatic ducts such	Pancreatic duct disruptions leaks
	SLOW degrading stent	11 weeks	Cholelithiasis / Choledocholithiasis Benign biliary strictures Malignant strictures Biliary leaks Cholangitis Modified anatomy procedures involving biliary and pancreatic ducts such as liver transplants, Whipples and alike	Chronic pancreatitis Pancreatic duct strictures





2.6 mm (~8 F) and **3.4 mm** (~10 F) version



- 1. ARCHIMEDES BPS Instructions for Use (IFU ARCHIMEDES BPS_02 093A47_200505).
- 2. Lakhtakia S, Yaacob N, Jarmin R, Mohamed Z, Jasminroslan E, Othman H, et al. 339 Novel Bio-Degradable Stent In Patients With Biliary Or Pancreatic Obstruction: A Pilot Study To Assess Clinical Efficacy And Safety. Gastrointestinal Endoscopy. 2018;87(6).
- 3. The different degradation profiles are designed for obstructed biliary or pancreatic ducts with various underlying diseases.
- 4. Minimal Strength Retention is defined by the presence of at least 10% of an initial strength parameter.

 The Stent remains intact with no breaks, tested in a simulated degradation model.
- 5. 2019 Frost & Sullivan Independent Market Research Report.

ARCHIMEDESBiodegradable Biliary and Pancreatic Stent

Fast degrading stent*

12 days

2 mm Diameter (6 F)

Product code BPS20040F BPS20060F BPS20080F BPS20100F BPS20125F	Length (mm) 40 60 80 100 125
BPS20125F BPS20150F BPS20175F	150 175

2.6 mm Diameter (~8 F)

3.4 mm Diameter (~10 F)

Product code	Length (mm)
BPS34040F	40
BPS34060F	60
BPS34080F	80
BPS34100F	100
BPS34125F	125
BPS34150F	150
BPS34175F	175
BPS34200F	200
BPS34225F	225

Medium degrading stent*

20 days

2 mm Diameter (6 F)

Product code	Length (mm)
BPS20040M	40
BPS20060M	60
BPS20080M	80
BPS20100M	100
BPS20125M	125
BPS20150M	150
BPS20150M	150
BPS20175M	175

2.6 mm Diameter (~8 F)

3.4 mm Diameter (~10 F)

Slow degrading stent*

11 weeks

2 mm Diameter (6 F)

Product code	Length (mm)
BPS20040S	40
BPS20060S	60
BPS20080S	80
BPS20100S	100
BPS20125S	125
BPS20150S	150
BPS20175S	175

2.6 mm Diameter (~8 F)

Product code	Length (mm)
BPS26040S	40
BPS26060S	60
BPS26080S	80
BPS26100S	100
BPS26125S	125
BPS26150S	150
BPS26175S	175
BPS26200S	200
BPS26225S	225

3.4 mm Diameter (~10 F)

^{*} PLEASE NOTE that the suitable degradation profile of the stent to treat the obstructed biliary or pancreatic duct must be chosen by a clinical professional, always taking the underlying disease and the condition of the individual patient into account.

The product offical name is ARCHIMEDES BPS Biodegradable Pancreaticobiliary Stent

INTENDED USE / INDICATION: This device is used to drain obstructed biliary or pancreatic ducts and is indicated for obstructed biliary or pancreatic ducts.

Instructions For Use:

- 1. Ensure full extension of anti-migration struts.
- 2. Load introducer sleeve over one end of stent.
- **3.** Introduce introducer sleeve and stent onto a pre-positioned guidewire advancing pushing catheter in 1-2 cm increments until the stent is in desired position. For modified anatomy procedures intraoperatively, position stent manually.
- **4.** Fluoroscopically, radiographically and or endoscopically confirm desired stent position. Inject contrast, if desired, to fluoroscopically visualize stent position.
- **5.** After confirming stent position, gently remove guidewire from endoscope, if applicable, while maintaining position of the stent with pushing catheter.
- **6**. Gently remove pushing catheter from accessory channel, if applicable.



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