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Novel biliary stent and deployment device

A novel device for managing difficult strictures of the pancreatic and biliary ducts.

IP Status: US Patent Pending; US Application No. 18/244,728

Applications

- Single step management of biliary and pancreatic strictures involving both treatment and stent
- Alleviate and resolve obstructions of the pancreatic and biliary ducts to allow drainage

Technology Overview

Treatment of pancreaticobiliary disease can be challenging due to difficulty accessing and treating tight ductal strictures. Researchers at the University of Minnesota have developed a novel device that is capable of traversing narrow pancreatic and biliary ducts and deploying a stent in a one stop process. The device consists of a threaded plastic stent and deployment catheter that allows for the passage of the stent across the stenosis by spiraling much like a screw. This system is specifically designed to address deficiencies in current technology and more efficiently deploy stents across difficult strictures without the use of brute force.

Phase of Development

TRL: 2-3
Device has been conceptualized.

Desired Partnerships

This technology is now available for:

- License
- Sponsored research
- Co-development

Please contact our office to share your business' needs and learn more.

Researchers

- **Stuart Amateau MD, PhD** Professor of Medicine, Surgery and Pediatric
- **Nicholas McDonald, MD** Gastroenterology Fellow, University of Minnesota

Technology ID

2022-013

Category

Life Sciences/Human Health
Life Sciences/Medical Devices

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