

Prototype construction of stapler for biliary and pancreatic anastomosis



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SUMMARY

An anastomosis is a surgical procedure that establishes a connection between two anatomical structures. In abdominal surgery, anastomosis performed on the bile duct and the pancreas are extremely challenging procedures that require excellent surgical skills and can only be performed by hand.

In this SPARK project, the team develops two devices that allow biliary and pancreatic anastomosis in a safe, quick and reproducible way.

The novel devices will reduce the risk of secondary complications, minimize the risk of lethal secondary effects and reduce the necessity for further hospital treatment.

PROJECT GOALS

- Build two functional prototypes
- Perform validation tests in “dry-lab”
- Submit patent application

LONG-TERM GOALS

- Perform validation tests *in vivo*
- Startup foundation or license to industry