Development of a stapler for solid organs

SUMMARY

Current solutions for solid organ resection in surgery are limited, carry the risk for intra- or postoperative bleeding and are associated with a high probability of fistula development. These secondary complications pose a great medical burden for patients and lead to increased treatment costs. Within previous SPARK-BIH funding periods, a functional prototype of a novel surgical stapler that allows a minimal-invasive, wedge-shaped resection of solid organs has been developed and the US patent has been granted. The aim of the project in this SPARK-BIH funding period is the in vivo validation of the novel stapler to demonstrate that organs are cut safely and with a reduced risk for complications.

PROJECT GOALS

• Perform validation tests in vivo
• US patent granted, EP and JP patent applications pending

LONG-TERM GOALS

• Startup foundation or license to industry
• CE certification as a medical device

PREVIOUS SPARK FUNDINGS

• Track 1 2017
• Track 2 2019

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