

Docket #: S19-226

Improved method and device for closing abdominal fascial closure after laparotomy

Stanford researchers have developed a new method and medical device to close the abdominal wall fascia after laparotomy to reduce the incidence of incisional hernias. Incisional hernias occur in nearly 50% of high risk patients leading to costs of about \$3B annually.

This invention is a double pledged device with bio-absorbable fasteners that close incisions using a stapling motion. As compared to current techniques using sutures and mesh, this invention is more efficient, reduces infection risk, and decreases incisional hernia rate.

Video

Stage of Development

- Prototype

Applications

- Abdominal wall fascial closure
- Incisional hernia closure

Advantages

- Automated device
- Reduces the incidence of incisional hernias
- Reduces the complications and expense from abdominal hernias after surgery
- Less chance of infection as compared to mesh technique
- Advantages over the needle and suture technique:

- Lower incidence of incisional hernia due to less tension on the suture line
- Faster healing time
- Less chance of infection due to less manipulation of tissues
- Surveyed surgeons and patients prefer this solution over the current methods

Patents

- Published Application: [WO2020252430](#)

Innovators

- Aussama Nassar

Licensing Contact

Seth Rodgers

Licensing Manager, Life Sciences

[Email](#)