

## Trocar Site Closure Device (18044)

Published date: Sept. 29, 2019

### Technology description

In recent years, minimally-invasive abdominal and pelvic surgeries, or laparoscopic surgeries, are becoming widely practiced. As the demand for them grows, so does the demand for small-wound closure techniques that prevent herniation.

To meet that demand, University of Louisville researchers have developed an inexpensive and effective trocar site closure device that is relatively easy to manufacture and operates as part of a single-port procedure.

The device works by being deployed through a trocar and then engaging into the tissue to block and at least partially close the wound site, which effectively prevents hernias. The delivery system used to deploy and place the device is reusable.

### Advantages

Current closure techniques take time for the physicians to develop proficiency, require extended time to close fascial layer, or do not fully prevent herniation. Today, the methods most widely used in practice, such as needlebased techniques, are generally cumbersome, imprecise, usually require two operators, and can lead to pain at the wound site.

UofL's device could potentially have none of these limitations, as it is expected to be easy to use, require minimal training, significantly reduce procedure time, provide greater reliability of closure, and not cause postoperative pain and discomfort by not significantly penetrating the tissue.

UofL's device may also be more cost-effective than existing techniques given that the device itself is less expensive, and requires less procedure time to use.

### Institution

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