HotPort for Minimally Invasive Surgery
Minimally Invasive Surgery

- 3.5 million laparoscopic surgeries performed annually in the US\(^1\)
- 1.2 million video-assisted thoracoscopic surgeries performed annually in the US\(^2,3\)
  - 51% sublobar resections
  - 40% lobectomy
  - 5% thymectomy and mediastinal tumors
  - 4% pneumonectomy
- 563,000 robotic minimally invasive surgeries are performed annually in the US\(^4\)
  - 44% gynecology
  - 33% general surgery
  - 19% urology
- The global trocar market is estimated to be $800 million per year

3.5 Million Laparoscopic Procedures Performed in the US Annually\(^1,5-7\)

- Cholecystectomy: 50%
- Bariatric Surgery: 13%
- Colorectal Resections: 11%
- Appendectomy: 9%
- Hysterectomy: 9%
- Nephrectomy: 6%
- Other: 2%
Vessel injuries during minimally invasive procedures may lead to serious complications

- Hemorrhage due to vessel injury is one of the most serious complications of minimally invasive surgery and the most likely to result in death, especially when diagnosis is delayed.\(^1\)

- As many as 1.9% of patients suffer from bleeding complications during video-assisted thoracoscopic surgeries.\(^2\)

- Approximately 4% of patients suffer from bleeding complications during laparoscopic surgeries.\(^3\)
  - 2.3% intraoperative bleeding complications
  - 1.8% postoperative bleeding complications

- 86% of patients that experience intraoperative bleeding suffer from internal bleeding, which is often difficult to see and repair during the procedure.\(^3\)

- Approximately 50% of internal bleeds require further surgical intervention.\(^3\)

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HotPort

- Multi-channel surgical port that can be utilized for a variety of minimally invasive surgical procedures including:
  - Laparoscopic surgery
  - Video-assisted thoracoscopic surgery
  - Robotic surgery

- Efficiently visualize and cauterize problematic wounds near the insertion site

- Reduce risk of post-surgical complications
Intellectual Property

• UVA TechID: AILAWADI-PORT (2016-120)
  – Title: Port apparatus and sheath device for electrocautery and related methods thereof