

SecuRetract – creating space in laparoscopic surgery

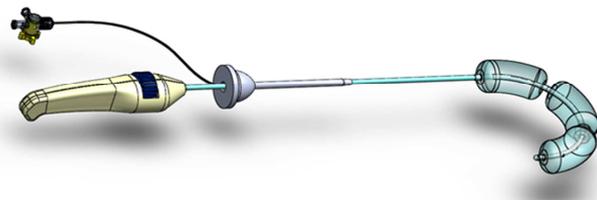
VALUE PROPOSITION

SecuRetract represents a simple technology solution to a clinical need in a rapidly expanding market segment. SecuRetract can dramatically reduce complications associated with the steep head-down positioning in many laparoscopic procedures associated with potentially serious perioperative morbidity. Complications of head-down positioning include vision loss, impairment of pulmonary function, reduced venous return and cardiac preload, and cardiac arrhythmias in as many as 27% of patients. As well as reducing complications due to head-down (Trendelenberg) position, SecuRetract can also significantly reduce small bowel trauma and injury due to sharps, and reduce procedural time by limiting repositioning during procedures. The award-winning technology is patient-ready and clinical partners are available for evaluation.

THE TECHNOLOGY

SecuRetract is a patented, small-bowel retractor with application in a number of laparoscopic surgical settings. One of the most common challenges encountered during laparoscopy is that of the distended loops of bowel or overlaying organs spilling into the operating field and obstructing the surgeon's view. SecuRetract can be inserted into the peritoneal cavity through a 5mm surgical cannula in its deflated state. Once the region of interest has been identified, the impeding organs are retracted by manipulating the device in the hooked position. The device is then inflated, increasing the contact area and finally withdrawn from the operating field, retracting the organs in the process. SecuRetract's hooking radius of curvature may be modified as required and withdrawn and reinserted multiple times during a procedure.

SecuRetract is manufacture-ready with a regulatory technical file in ISO 13485 compliance, developed within a quality management system at University College Cork. An established pathway to clinical evaluation is available via multiple local clinical centres (Cork University Hospital, Mercy University Hospital) and an established regulatory pathway via 510(k) is envisaged.



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DEVELOPMENT OBJECTIVES

- Conduct a Phase 1 clinical trial at Mercy and Cork University Hospitals.

FIELDS OF APPLICATION

- Lower abdominal laparoscopic surgery

PARTNERS



FUNDING



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