Researchers at the University of South Florida have designed a minimally invasive laparoscopic tissue removal device.

Endoscopic surgery is popular and common for many surgical procedures, like hysterectomy, gall bladder removal, appendectomies, and ovariectomies. Therefore, the need to develop a better and efficient method is crucial. Surgeons need to have clear visibility and device control at all times to avoid damaging nearby vital organs and blood vessels.

Our inventors have successfully designed a safe, ergonomic, and time efficient appropriate laparoscopic tissue removal device for use during traditional and complex hysterectomy surgeries. This technology reduces the possibility of leaving unwanted tissue within the body cavity. A primary advantage of the design is the ability to cut and transport tissue in an all in one design. This advantage allows the device to have a retractable sheath that safely houses the cutting blades. The sheath can be used as an adjustable blade barrier to allow an increase or decrease in surface area of the exposed blade. This design will reduce surgery time, while reducing surgical fatigue.

This technology is applicable for cutting, coring, and extracting tissue during laparoscopy operations.

ADVANTAGES:
- Cutting and transporting tissue in an all in one design
- Reducing surgical fatigue
- Reducing surgery time

Perspective View of a Safer Design

Perspective view of an embodiment of the invention

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