

ENDOFAST RELIANT™ SYSTEM FOR ANTERIOR COMPARTMENT REPAIRSynopsis of Video

This video presents the second generation of the Endofast Reliant™ System for pelvic organ prolapse (POP) repair.

Hypothesis / aims of study

Mesh reinforcement used for prolapse repair is advocated to reduce prolapse failure rate. The EndoFast Reliant™ system offers a new method for reinforcement of the pelvic floor in a minimally-invasive procedure with a system comprised of a mesh and soft tissue fasteners. The system was developed to enable direct mesh attachment into connective tissue without trocar use, and therefore potentially reducing intra operative complications due to visceral injury. The second generation of the system offers disposable kit with improved features of ergonomics and better ability to extract the fasteners in cases that the surgeon is not satisfied with the deployment site. This video demonstrates anterior compartment repair.

Study design, materials and methods

A prospective multicenter study evaluating the efficacy of EndoFast Reliant™ system in POP repair. Twenty women with POP repair were followed for one year, using different outcome measures for safety and efficacy. Informed consent was obtained from all patients. This video demonstrates the surgical technique of the EndoFast Reliant™ system in a 79 years old female patient, who was operated for cystocele repair.

Results

The video highlights the technique of the EndoFast Reliant™ system, and demonstrates the mechanism of the tissue attachment. Prior to mesh deployment, anterior vaginal wall dissection is performed to define the ischial spine and posterior symphysis. In the case presented, four fasteners are deployed to attach the monofilament polypropylene mesh into connective tissue adjacent to the white line. To date, this surgical procedure has been performed on more than 70 cases. One year follow up study results show low morbidity with 90% anatomical correction (POPQ Grade 0 or 1). Detailed long term clinical data is presented in another abstract submitted to this conference.

Interpretation of results

The technique of mesh application using the second generation of EndoFast Reliant™ System for POP repair is easier to use with improved ergonomics compared to the first generation. One year follow up shows maintenance of the anatomical correction with significant improvement of pelvic floor symptoms.

Concluding message

This video demonstrates the ease of use of the EndoFast Reliant™ system for POP repair. The procedure is an attractive option for mesh placement during prolapse repair.

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| <i>Specify source of funding or grant</i> | Endogun Medical Systems, Kibutz Haogen, Israel |
| <i>Is this a clinical trial?</i> | Yes |
| <i>Is this study registered in a public clinical trials registry?</i> | Yes |
| <i>Specify Name of Public Registry, Registration Number</i> | Clinical Trial Gov , NCT00446693 |
| <i>What were the subjects in the study?</i> | HUMAN |
| <i>Was this study approved by an ethics committee?</i> | Yes |
| <i>Specify Name of Ethics Committee</i> | Chaim Sheba Medical Center Ethics Committee |
| <i>Was the Declaration of Helsinki followed?</i> | Yes |
| <i>Was informed consent obtained from the patients?</i> | Yes |