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Bava G¹

1. Hospital Fundacio Althaia Manresa

ANTERIOR, APICAL AND POSTERIOR COMPARTMENT REPAIR WITH MESH: MINIMALLY INVASIVE SACROSPINOUS FIXATION SYSTEM.

Introduction

Pelvic organ prolapse (POP) is a major health issue that may have significant impact on pelvic organ function and quality of life. A major problem for the POP repair has been reported to be a high recurrence rate (10-30%). To avoid this recurrence, synthetic meshes are now widely used in the POP repair. In this video we present a mesh with 6 fixation points and special tissue anchors to attach the mesh to the sacrospinous ligament (Surelift™ System. Neomedic International, Spain). With this technique we presumed to decrease surgical failure and intra and postoperative complications.

<u>Design</u>

This video demonstrates, firstly, the anterior vaginal repair. Surgical technique starts with hidrodissection af the anterior vaginal wall with 0.5% lignocaine and 0.25% epinephrine. A midline anterior wall incision from bladder neck up towards apex is made. The vaginal epithelium is dissected off of the bladder out laterally to the sidewalls and up to the ischial spines, and sacrospinous ligament is dissected bilaterally. Once the dissection is completed, two PEEK (polyether ether ketone) anchors with a prolene suture are placed using an applicator, 1,5- 2cm from the ischial spine, to avoid pudendus nerve or vessels injury. Anterior wall mesh (soft macroporous polypropylene mesh with 6 arms) is placed by attaching the apical arms to the sacrospinous ligament with the prolene suture. The other four arms are attached to the lateral pelvic sidewall with needles passed through the transobturator route. Four incisions are made in the groin for access to the transobturator space. The superior incisions are made in the genitofemoral crease. These are utilized to attach the distal arms of the mesh to the sidewall at the level of the bladder neck. The inferior incisions are made in the groin, 3cm inferior and 2cm lateral to the superior incisions. These incisions are used to pass the needles through the transobturator space and to attach the middle arms of the graft to the white line, approximately 1.5 to 2 cm distal to the ischial spine. Vaginal cuff is attached with the anchor prolene sutures and vaginal incision closed with vicryl suture. Posterior vaginal repair starts with the rectovaginal plane being exposed by dissecting the vaginal epithelium off the underlying pre-

Posterior vaginal repair starts with the rectovaginal plane being exposed by dissecting the vaginal epithelium off the underlying prerectal tissue. Dissection is made up to the ischial spine and sacrospinous ligament. Customizing of the mesh is performed. The posterior mesh implant is introduced into the rectovaginal plane. The epithelium is closed in the same fashion as the anterior vaginal epithelium. Mesh can be modified adjusting it to vaginal length and width.

Results

The procedure results in complete restoration of both Level I and Level II support in the anterior compartment and apex of the vagina

Patients completed to date have recovered quickly with minimal post-operative pain. No bladder or rectal injuries, post operative pain or other serious complications occur during surgery. The procedure offers the advantage of concomitant vault suspension with anterior or posterior compartment repair.

<u>Conclusion</u>

The surgery presented in this video demonstrates that Surelift™ innovative approach system seems to be effective, with no significant complications, for the POP repair.

With this minimally invasive sacrospinous fixation system we can concomitantly repair anterior/posterior and apical prolapse. Eurther studies with longer follow up period are needed.

References

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What were the subjects in the study?	HUMAN
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Was informed consent obtained from the patients?	Yes