

**SYNOPSIS OF VIDEO****DEXTRANOMER BASED IMPLANTS FOR ENDOSCOPIC TREATMENT OF URINARY INCONTINENCE IN ADULT FEMALE PATIENT AFTER BLADDER EXSTROPHY REPAIR.**Hypothesis / aims of study

Treatment of urinary incontinence in bladder exstrophy patients remains a challenging problem. In the last 2 decades endoscopic treatment for urinary incontinence has gained popularity, mainly because it is a minimally invasive procedure compared with open surgery. Dextranomer/hyaluronic acid copolymer (Deflux, Q-Med AB, Uppsala, Sweden) is a new injectable nontoxic, nonimmunogenic, nonmigrant bulking synthetic material. In this video we have used dextranomer/hyaluronic acid copolymer as a bulking agent for the treatment of urinary incontinence due to incompetent urethral closure mechanism in an adult female patient (19 years old) with bladder exstrophy after bladder repair. The copolymer is composed of dextranomer microspheres 80 to 120  $\mu\text{m}$ . in diameter suspended in 1% sodium hyaluronan solution. The transurethral endoscopic procedure was performed with the patient under general anesthesia using a videocamera. A well-defined bulges were created at the bladder neck using 3ml.(3 vials) of dextranomer/hyaluronic acid copolymer, one vial (1ml.) was injected at each injection site. The injection was performed at the 3, 6 and 9 o'clock positions into the submucosal space at the bladder neck. No urethral catheter was fixed in postoperatively. The urine was sterile at the time of treatment. The video was recorded following approval from the local ethics committee. The patient gave written informed consent before the start of the procedure. The procedure lasted for 20 minutes. In the immediate postoperative period the patient gained about 80% improvement in her continence level as claimed by the patient herself, she was no longer in need for any protection (that is no urinary leakage) between voidings and she had well-defined bladder emptying intervals of 2.5 hours or more during the daytime and 6 hours or more at night, but she was still complaining of slight degree of stress urinary incontinence. We concluded that endoscopic treatment of urinary incontinence in bladder exstrophy female patient with dextranomer implant, was a safe and effective procedure.

A case report for adult female patient (19 years old ) with repaired bladder exstrophy managed with endoscopic injection of dextranomer microspheres in sodium hyaluronan solution as a bulking agent for the treatment of urinary incontinence due to sphincter incompetence.



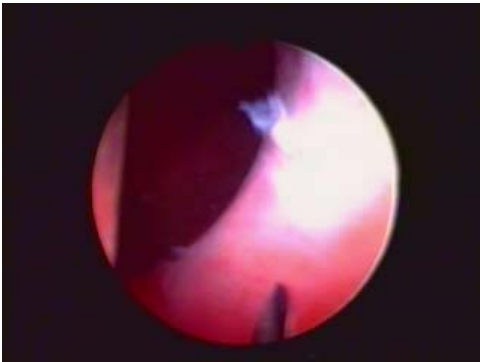
Plain x-ray Pelvis (A.P)



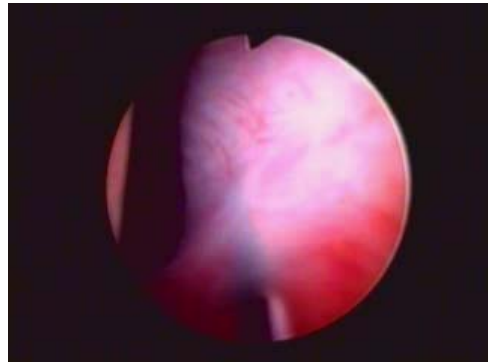
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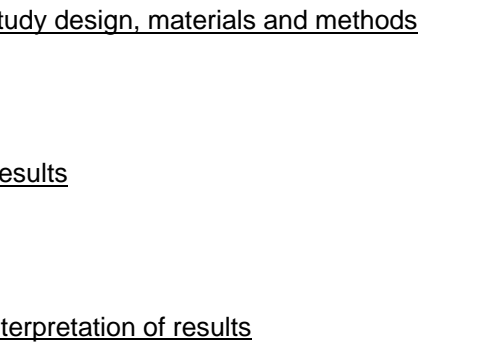
Preoperative Picture for Abdomen and Vulva



Preoperative Picture for Urethral Meatus



Intra Operative Picture Before Injection.



Intra Operative Picture After Injection.



#### Study design, materials and methods

#### Results

#### Interpretation of results

#### Concluding message