

INJECTION OF ZUIDEX™ (DEXTRANOMER/HYALURONIC ACID) USING IMPLACER™ FOR FEMALE STRESS URINARY INCONTINENCE

Synopsis of Video

This videotape shows the technique of periurethral injection of Zuidex for the treatment of stress urinary incontinence – Intrinsic Sphincter Deficiency (ISD). Dextranomer/hyaluronic acid (Dx/HA) copolymer is a biocompatible material with excellent properties for submucosal injection, Dx/HA copolymer also has European approval for the treatment of SUI (Zuidex™).

Implacement therapy with the NASHA/Dx gel is used to narrow the mid-urethra, allowing the urethral sphincter to resist increases in intra-abdominal pressure. The Implacer™ device simplifies and standardizes the procedure allowing for blind administration without complicated equipment, an operating theatre, or the risks associated with surgery. The Zuidex™ system consists of 1 Implacer™, 4 syringes filled with NASHA/Dx gel, and 5 0.80 x 50 mm needles.

Prior to treatment the patient should undergo a urinary and physical examination to exclude urinary tract infection. Patient is prepared for regular cystoscopy and assessed to determine the type of anaesthetic. Urethral calibration is done. Following administration of local or other anaesthetic, Implacer™ (with the tube covering needles) is introduced upto the mid-urethral level. Dx/HA copolymer injections were administered at the mid-urethra using the Implacer™ device. The device facilitates sequential injection of four injections at the 2,4,8 and 10 o'clock positions. Injection volumes are 4 X 0.7 ml at the four different sites. NASHA/Dx gel is injected submucosally in the urethra using this device.

Since it is a synthetic material, patients do not have to undergo a skin test prior to implantation. All the patients went home on the same day after voiding. After 6 months of follow-up, no complications or failure have been reported.

Zuidex™ System is a new, innovative procedure that is suitable for first-line therapy after behavioral therapy. The Zuidex™ system includes a novel applicator (Implacer™ device) that allows transurethral injection of Dx/HA copolymer as an outpatient procedure, eliminating the need for surgical facilities. The injection of Zuidex is a technique that is quick and easy to perform with a low complication rate and rapid recovery. In women with Intrinsic Sphincter Deficiency, who are less fit, or where conventional surgery is unsuitable, it remains a very valuable technique.