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APPLICATION OF DEFLUX® GEL INJECTION INTO THE BLADDER NECK AREA IN PATIENTS WITH NEUROPATHIC SPHINCTER FAILURE

Hypothesis / aims of study

The urethral bulking injection procedure, using a bulking agent Deflux®, is an attractive alternative to surgery with its possible different complications. Urethral bulking is a minimally invasive technique with short recovery period. Evaluation of efficacy of Deflux® gel injection into the bladder neck in patients with neuropathic sphincter failure.

Study design, materials and methods

The method of Deflux® gel injection was applied in 12 patients aged from 12 to 18 years with urinary incontinence due to neuropathic bladder neck failure diagnosed in endoscopic examination. Among them were 5 boys and 7 girls. Enterocystoplasty was performed earlier in three patients without improvement of urinary continence. The method of Deflux® gel injection into the bladder neck area using 3 separated insertion of a needle was applied in all patients. One ml of Deflux® gel was utilized for one injection. For total procedure was utilized 3 ml of Deflux® gel.

Results

Patients' follow-up ranged from 4 to 18 months. A lack of improvement of continence was observed in 2 boys, who were qualified to surgical closure of the bladder neck. The improvement of 2-3 weeks short duration occurred in 3 girls, who were catheterized by urethra. One of them was qualified to sling procedure with simultaneous construction of continent urinary stoma. The improvement of continence with 3-hour periods of dryness one obtained in 7 patients, but 4 of them required repeating of this procedure.

Interpretation of results

CIC via urethra after Deflux® injection induces return of incontinence after short term improvement of continence. Lack of good results after Deflux® injection is not account for using other methods.

Concluding message

Application of Deflux® gel injection into bladder neck is one of different options of urinary incontinence treatment without necessity of surgical closure of the bladder neck.

<i>Specify source of funding or grant</i>	Not
<i>Is this a clinical trial?</i>	No
<i>What were the subjects in the study?</i>	NONE