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.

Specify source of funding or grant
Not

Is this a clinical trial?
No

What were the subjects in the study?
NONE