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THE EFFECT OF BOTILINUM NEUROTOXIN TYPE A ON URINARY CONTINENCE IN CHILDREN WITH MYELODYSPLASIA

Hypothesis / aims of study

To evaluate the clinical and urodynamic efficacy of intradetrusor botulinum neurotoxin A (BONT-A) injections on urinary continence in children with myelodysplasia, who are refractory to anticholinergic treatment and clean intermittent catheterization (CIC) .

Study design, materials and methods

Between 2006 and 2011, 17 children (7 boys and 10 girls) with myelodysplasia were treated by intradetrusor injections of BONT-A (Botox , 10 U/ kg) in 30 different locations of the bladder. All children were previously treated with oral anticholinergics and CIC for urinary incontinence. Urodynamic studies were performed before and at 4th week after BONT-A injections. Preoperative urological findings were compared with postoperative findings.

Results

The mean age was 8,8 +/- 2 years and all children were incontinant . The mean detrusor leak point pressure was 58 cmH2O before BONT-A injection. Sixteen children became completely dry between cateterizations after BTA injection. The mean cystometric bladder capacity was increased and the mean maximum intravesical pressure was decreased significantly ($p<0.05$ - table) . The mean duration of clinical efficacy was 7+/- 2 months and 5 children were treated with a second BONT-A injection.

Table 1. Pre and post operative cystometric capacities and maximum intravesical pressures of our patients

	Pre BONT-A İnjection	Post BONT- A İnjection	P value
Cystometric bladder capacity (ml)	138,3(±)86	230.25(±)138,5	<0.05
Maximum intravesical presure (cm H2O)	74,5(±)72,9	29,1(±)13,1	<0.05

Interpretation of results

Intradetrusor BONT-A injection is an effective short-term treatment of urinary incontinence in children with myelodisplasia.

Concluding message

Intradetrusor BONT-A injection is a good alternative therapy before augmentation cystoplasty.

Specify source of funding or grant	**No disclosure**
Is this a clinical trial?	**No**
What were the subjects in the study?	**HUMAN**
Was this study approved by an ethics committee?	**No**

This study did not require ethics committee approval because	**Retrospective**
Was the Declaration of Helsinki followed?	**Yes**
Was informed consent obtained from the patients?	**No**