

(MP48-13) Prospective Evaluation of Intradetrusor Injections of OnabotulinumtoxinA in Adults with Spinal Dysraphism

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BACKGROUND/METHODS

Introduction:

- Up to 90% of patients with congenital spinal dysraphism (CSD) develop lower urinary tract symptoms in a complex classified as neurogenic overactive bladder (NOAB).
- Current literature in treatment of NOAB in patients with CSD is concentrated in the *pediatric* population
- We aim to evaluate the efficacy of intradetrusor injection onabotulinumtoxinA (BTX-A) for NOAB in **adults** with CSD

Objectives:

1. To evaluate **subjective** symptom changes after intra-detrusor injections of BTX-A in adult CSD with NOAB. The primary outcome will be improvement in symptom scores via **validated questionnaires**.
2. To evaluate **objective** changes after intradetrusor injections of BTX-A in adults with CSD using **urodynamic parameters**.

Methods:

- This is a prospective, single center non-randomized study of the effects of intradetrusor injections of BTX-A in adult CSD patients with NOAB.
- Patients are evaluated at baseline and then 1-3 months after injection of BTX-A with validated questionnaires and video urodynamic study (VUDS).

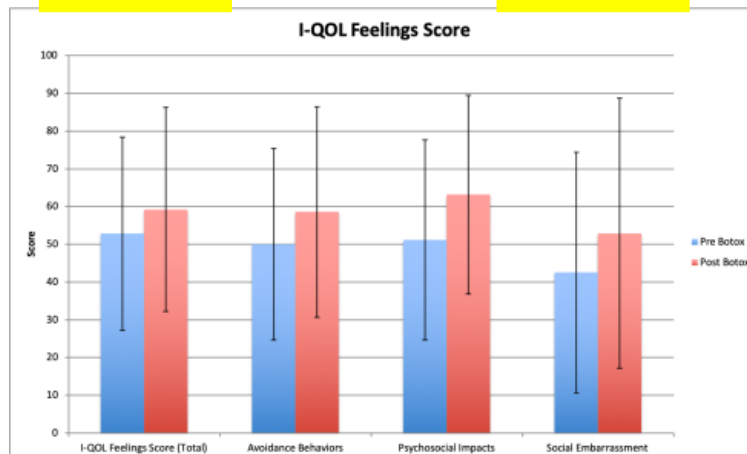
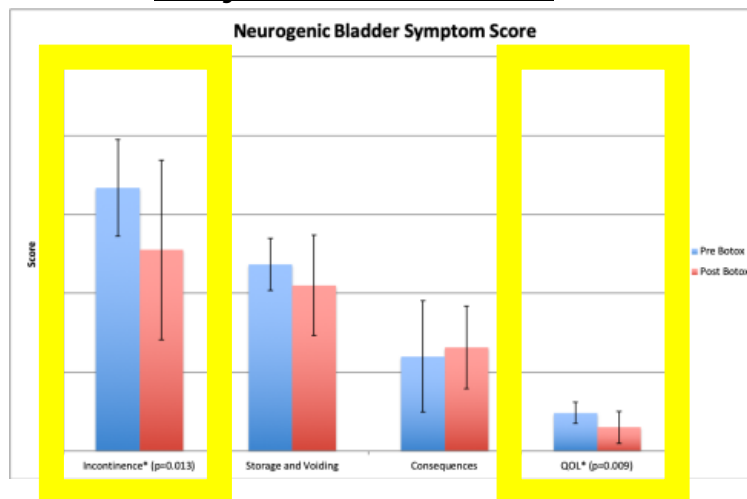


RESULTS/DISCUSSION

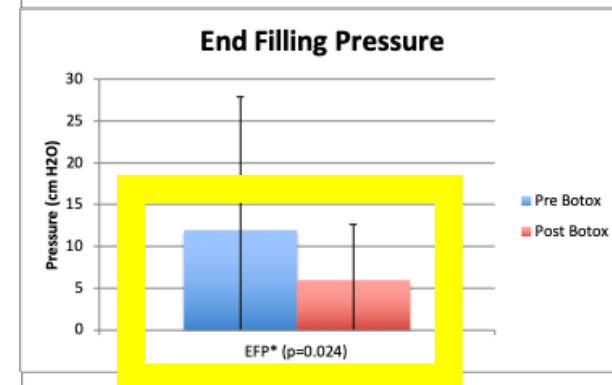
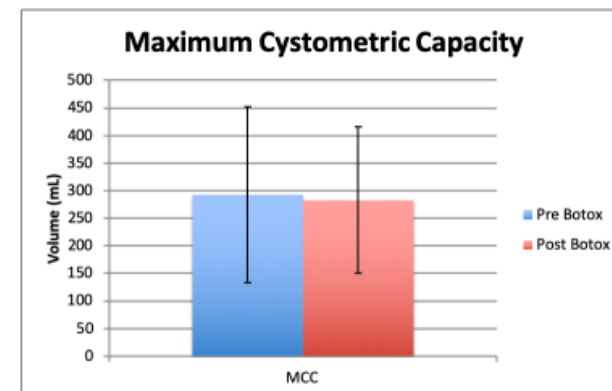
Baseline Characteristics

Patient Characteristics	N (%)	Mean (range)
Number of patients	12	
Gender		
Male	4 (33)	
Female	8 (67)	
BMI		28.5 (21-38.3)
Ethnicity		
White/Caucasian	8 (67)	
Black/African American	4 (33)	
Type of spinal dysraphism		
Myelomeningocele	9 (75)	
Sacral agenesis	2 (17)	
Cloacal extrophy	1 (8)	
Posterior urethral valves		
Age		26.9 (21-36)
Mobility		
Ambulatory	6 (50)	
Non-ambulatory	6 (50)	
Emptying technique		
CIC (via channel or urethra)	10 (83)	
Spontaneous voiding	2 (17)	
Previous Intravesical Botox Injection	10 (83)	
Current anticholinergic or B3 agonist use	4 (33)	
Presence of augmentation cystoplasty	4 (33)	

Subjective Parameters



UDS Parameters



Discussion

- Intradetrusor BTX-A in adults with CSD and NOAB may improve subjective urinary complaints and objective measurements such as bladder compliance
- Further data is needed to evaluate the efficacy and utility of BTX-A in adults with CSD