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DOES THE DEGREE OF BLADDER TRABECULATION PREDICT THE ONABOTULINUMTOXINA (BOTOX®) INJECTIONS OUTCOME IN SPINAL CORD INJURY PATIENTS?

Hypothesis / aims of study

To assess the effect Onabotulinumtoxin A(BOTOX®) bladder injection on urodynamics variables in correlation with the degree of trabeculation in spinal cord injury(SCI) patients.

Study design, materials and methods

We prospectively collected data of 83 consecutive SCI patients with refractory neurogenic bladder treated with 300u of BOTOX® in our institute between 2008-2010.

Urodynamics were conducted at baseline and 3 months post injections.

Patient s divided in to three groups according to cystoscopic findings of bladder trabeculation: group1(G1)(non or mild trabeculation),group2(G2)(moderate trabeculation with cellules), group3(G3)(sever trabeculation with bladder diverticulum),quality of life(QOL) were assessed at the baseline and 3 months post injection using Urinary Distress Inventory (UDI-6) and Incontinence Impact Questionnaire (IIQ-7).

Results

We have 41 patients inG1, 32 patients in G2 and in 10 patients in group3

Significant improvements in the QOL ,maximum cyctometric capacity(MCC) and maximum detrusor pressure(MDP) were seen 3 months post injection(p<0.001)).MCC increased significantly from 224±62cc at baseline to 333±98cc after 3 months and MDP decreased significantly from 31 ±8cmh2o to 20±7cmh2o after 3 months.

Sub group analysis showed a significant improvement in QOL, MCC and MDP in group

(1and2) ,however MCC was not significantly increased in group3 (170±40cc at baseline and 180±46cc after 3months) but MDP significantly decreased from 49 ±5cmh2o at baseline to 39±5cmh2o after 3 months however it's still high pressure.

Interpretation of results

Despite improving compliance in large number of patients, BOTOX® was not sufficient to overcome the stiffness in the poorly compliant bladders in group3

Concluding message

BOTOX® is safe and efficacious for spinal cord injured patients with refractory detrusor overactivity as reflected in urodynamic measurements and QOL .Sever trabiculation with bladder diverticulum might be a predictable cause of failure. However, further research is necessary to identify other factors associated with a poor response.

Specify source of funding or grant	non
Is this a clinical trial?	Yes
Is this study registered in a public clinical trials registry?	Yes
Specify Name of Public Registry, Registration Number	prince Sultan Humantarin City. #21234
Is this a Randomised Controlled Trial (RCT)?	No
What were the subjects in the study?	HUMAN
Was this study approved by an ethics committee?	Yes
Specify Name of Ethics Committee	reserch ethics committee
Was the Declaration of Helsinki followed?	Yes
Was informed consent obtained from the patients?	Yes