P- 576 <u>Intradetrusor injection of botulinum toxin: is it possible to perform under intraurethral</u>





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Introduction and objective

Currently, the most commonly used mode of anaesthesia for the ambulatory intra-detrusor injection of BoNTA is intra-vesical lidocaine solution, but many other cystoscopic procedures are performed under lidocaine gel, which provides good anaesthesia. We aim to assess the anaesthetic efficacy of the intra-vesical lidocaine solution compared to the intra-urethral lidocaine gel in the ambulatory injection of BoNTA.

Material and methods

Women with idiopatic overactive bladder.

Ambulatory BoNTA injection with flexible cystoscope and 4mm length and o'4mm calibre needle

n = 45

Group 1: intra-urethral lidocaine gel

n = 23

Group 2: lidocaine solution (2 ampoule 1occ + 2occ saline

+10cc HCO₃ 8,4%).

n = 22

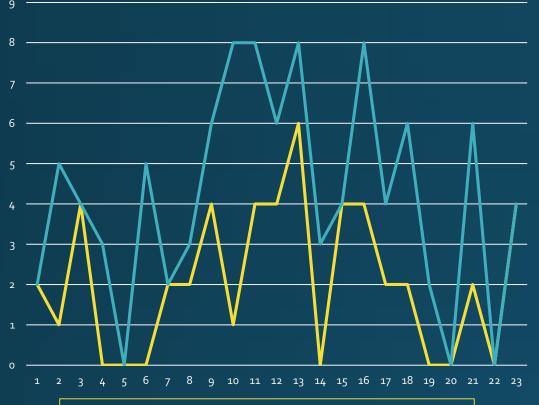
- Primary outcome:
 - VAS referred to the procedure.
 - VAS before discharge.

Secondary outcomes:

Adverse effects attributable to the local anesthetic and the procedure itself.

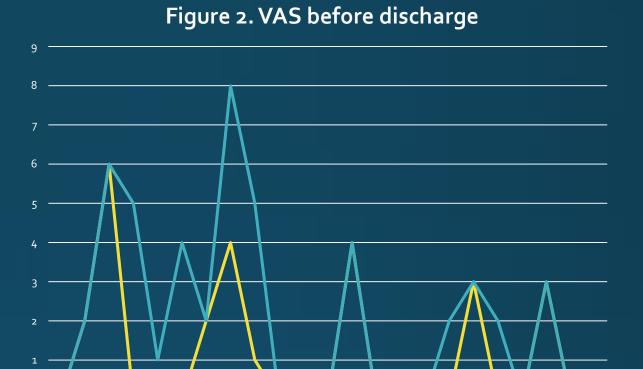
Results





Group 1: mean 2,09, SD 1,83 Group 2: mean 2'23, SD 2

Mean VAS at the end of the procedure.



Group 1: median o, interquartile range (0-2) Group 2: median o, interquartile range (0-2)

Mean VAS before discharge.

No statistically significant differences

Anesthetic Statistically significant differences (p<0,05)	Procedure No statistically significant differences.
Group 1: 13% Group 2: 40,9%	Group 1: 30,4% Group 2: 36,4%
Hypotension (o%)	Urinary tract infection (21,7% group 1 and 22,7% group 2)
Bradycardia (o%)	Voiding difficult (13% and 0%)
Confusion (o%)	Urinary catheter needed (4,3% and o%)
Fatigue (0% and 18,2%)	Haematuria (13,3% and 9,1%)
Blurry vision (o%)	Table 1. Adverse effects of the procedure and the anaesthetic.
Vomits (o%)	
Dysuria (17,4% and 40,9%)	

Interpretation of results

- Avoiding systemic effects of the lidocaine solution (with a significant and clinically relevant decrease in the percentage of adverse effects in the group 1 13% vs 40,9%) and decreasing the total duration of the.
- The key points that allow us to perform the procedure with this anesthetic protocol were: 1) Changing the operating room for our Urodynamics Unit, 2) Changing the rigid cystoscope for the flexible and 3) Changing our needle for a thiner (0,4mm) and shorter (4mm) one.

Conclusions

Intra-detrusor injection of BoNTA can be performed safety and ambulatory, with lidocaine gel as anaesthesia without an increase of pain or complications of our patients compared to the lidocaine solution group.