

477. Chronic refractory pelvic pain: management with botulinum toxin



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HYPOTHESIS

<u>Chronic pelvic pain syndrome (CPPS)</u>: perception of **pain in pelvic-related structures** with associated lower urinary tract, sexual, bowel or gynecological dysfunction > 6 months.

Myofascial pelvic pain: Pain of the pelvic floor muscles and connecting fascia.

<u>Myofascial trigger points</u> → hypersensitive tight bands within the muscles, which elicit a referred pain pattern

Rehabilitation treatment is key pillar in these patient's management.

- Manual techniques, correction of biomechanical alterations, muscle reeducation, electrostimulation, **interventional procedures**.
- Transvaginal infiltration of botulinum toxin A (BTX/A). Statistically significant results in the reduction of pelvic pain, pelvic floor pressure and dyspareunia.

DUAL MECHANISM

- 1. Muscle relaxation induced by the release of acetylcholine at the neuromuscular junction. 3 to 6 months.
- 2. Direct antinociceptive effect, blocking the release of local neurotransmitters involved in pain signaling.

To describe the results of treatment with botulinum toxin infiltration in women with pelvic pain, refractory to previous rehabilitation treatments.

STUDY DESIGN, MATERIAL AND METHODS

Descriptive cross-sectional study: women with chronic pelvic pain refractory to previous rehabilitation treatments, attended in the rehabilitation department of a tertiary hospital from January 2022 to December 2023.









29 women diagnosed with refractory chronic pelvic pain, who underwent infiltration with botulinum toxin with periodic check-ups

Clinical assessment protocol: sociodemographic data (sex, age, parity), cause of pain, time of pain in years, previous treatments, toxin doses, reinfiltrations and complications.

Visual analog scale (VAS): review tool before and after each intervention.



RESULTS AND INTERPRETATION

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Twenty-nine female patients were evaluated.

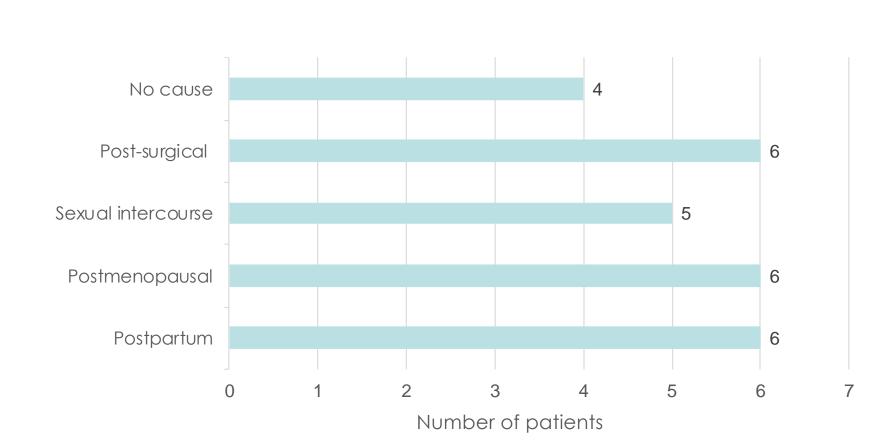


The mean time of pain was 2.66 years.



Initial mean VAS of 7.90.

Mean age of 45.79 years



Regarding the previous treatments performed:

7 patients ———— combined treatment (rehabilitation treatment + dry needling + corticosteroid infiltrations)

4 patients — physiotherapy treatment (manual +/- dry needling)

12 patients. _____ corticosteroid infiltrations

6 patients ——— rehabilitation treatment + corticosteroid infiltrations.

Mean dose of botulinum toxin ———— 84.4 IU, distrubuted in 1 to 3 spots.

The infiltrated muscles:

iliococcygeus: 13 patients puborectal: 10 patients pubovaginal: 1 patient

* 2 of the patients being a combination of the three muscles, 12 patients in introitus (6 only in introitus and 6 combined with other muscles) and 2 patients in episiotomy (1 in scar and another patient combined).

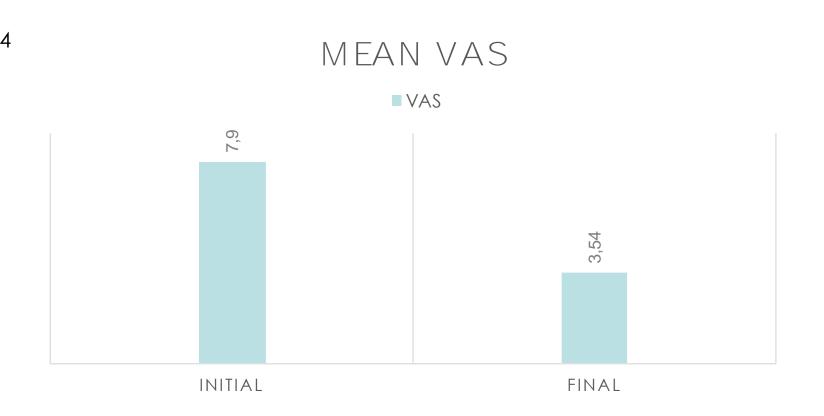
One month after infiltration mean VAS was reduced by almost 50% (3.54 with SD 2.84)

Statistically significant (p<0.001) measured with Student's t-test.

In 4 cases no improvement was found.

5 patients required a **new infiltration** in the following 3 to 6 months.

No complications related to the technique or BTX/A were found.



CONCLUSIONS

- 1 The benefit of BTX/A use as a treatment for chronic refractory pelvic pain has been demonstrated. This technique is useful, effective and safe.
- 2 Studies with a larger sample size, as well as including a control group should be developed.
- 3 Pelvic floor muscle infiltration with BTX/A, should be considered as a complementary therapeutic option to the usual physiotherapy treatment.

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