

Botulinum toxin A

Botulinum toxin A (BTX-A) inhibits **acetylcholine** exocytosis from parasympathetic postganglionic nerves to the M2 and M3 receptors of the **detrusor**, inhibiting detrusor contraction. BTX-A (100–200u) is injected into the **detrusor muscle** during cystoscopy. It decreases overactivity, urgency, and storage pressures ¹⁾

Efficacy lasts 3–12 months and repeat injections are required. Maximum **Botox** dose is 360u per 90 day from all sources. Side effects include **urinary tract infection** and **urinary retention**. In patient not already managed with catheterization, must be aware of the risk of urinary retention and need for temporary catheterization in 2–20% of patients ²⁾.

This is usually self-limited to weeks or months as the BTX-A wears off ³⁾.

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Weckx F, Tutolo M, De Ridder D, et al. The role of botulinum toxin A in treating neurogenic bladder. Transl Androl Urol. 2016; 5:63–71

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