

Initial Assessment to identify underlying cause

Standard Urotherapy

Dietary Hygiene Changes

Fluid intake

Adequate urination intervals

Adequate positioning for voiding and defecation

Avoidance of caffeine, chocolate and citrus foods

Refer as appropriate



Constipation

Hydration and fibre intake Treatment with laxatives



Confirmed or suspected detrusor over activity

Non-neurogenic

Inadequate response to urotherapy



Neurogenic

May already undergoing intermittent catheterisation

First Line Pharmacological Treatment with Anticholinergics

See <u>BNSSG Paediatric Formulary</u> for first line options
Trial duration <u>minimum 3 months</u> at maximum tolerated dose



Contraindicated, not tolerated or ineffective

Alternative Pharmacological Options with Anticholinergics

Mirabegron (TLS Amber 3 months with SCP)

Oxybutynin transdermal (TLS Red)

Combination antimuscarinic therapy such as Solifenacin + Mirabegron
Trial duration **minimum 3 months** at maximum tolerated dose

Non-neurogenic detrusor over activity

Persistent wetting despite maximal medical therapy



Neurogenic detrusor over activity

Persistent over activity and/or poor bladder compliance despite maximal medical therapy

Botulinum Toxin A administration

5units/kg to a max 100 units for non-neurogenic DO and; max 200 units for neurogenic DO

Contraindicated, not tolerated or ineffective (review at 3 months)



Surgical Intervention

Augmentation cystoplasty using intestinal segment

Reassess in clinic after 3 months to assess outcomes and for suitability of repeated Botulinum toxin A injections after 6-9 months according to duration of action in individual patient [based on return of DO +/- wetting]



Use of Botulinum Toxin A for Overactive Bladder in Paediatrics



References

Urinary incontinence in neurological disease: assessment and management, clinical guideline CG148, published August 2012, last updated October 2023

Outcomes of Intravesical Botulinum Toxin for Idiopathic Overactive Bladder Symptoms: A Systematic Review of the Literature. Anger, J.T.

Overactive Bladder in Children, European Medical Journal, June 2018