

Urinary bladder dysfunction treatment

Pharmacologic treatment for bladder dysfunction

Muscarinic anticholinergics

see [Muscarinic anticholinergics](#).

Xiao et al. and other investigators have studied an intradural somatic-to-autonomic (e.g., L-5 to S3-4) nerve transfer as a method to create a reflex arc to allow bladder emptying in response to cutaneous stimulation (the [Xiao procedure](#)). In previous clinical studies of patients with [spinal dysraphism](#) who underwent the Xiao procedure, high success rates (70%-85%) were reported for the establishment of a “skin-CNS-bladder” reflex arc that allows spontaneous, controlled voiding in children with neurogenic [bladder dysfunction](#). However, many of these studies did not use blinded observers, did not have control groups, and/or featured only limited follow-up durations.

see [Xiao procedure](#)

Neuromodulation for bladder dysfunction

[Neuromodulation for bladder dysfunction](#)

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