

Anticholinergic

An anticholinergic agent is a substance that blocks the action of the neurotransmitter [acetylcholine](#) at synapses in the central and peripheral nervous system.

[Anticholinergics](#) may negatively impact [cognition](#) and [memory](#) ^{1) 2)}. Newer agents ([tolterodine](#), [darifenacin](#)) have less impact on memory. [Tropium](#), a quaternary amine, crosses the blood-brain barrier less readily than other anticholinergics and may have a less negative impact ³⁾.

[Bladder contraction](#) is produced by ACh-mediated stimulation of postganglionic parasympathetic muscarinic cholinergic receptors on bladder smooth muscle. [Anticholinergics](#) bind M2 and M3 choline receptors and prevent stimulation. This increases bladder capacity by 50 ml and decreases bladder storage pressures by 15 cm H2O ⁴⁾.

¹⁾

Moga DC, Carnahan RM, Lund BC, et al. Risks and benefits of bladder antimuscarinics among elderly residents of Veterans Affairs Community Living Centers. J Am Med Dir Assoc. 2013; 14:749–760

²⁾ , ³⁾

Kay GG, Ebinger U. Preserving cognitive function for patients with overactive bladder: evidence for a differential effect with darifenacin. Int J Clin Pract. 2008; 62:1792–1800

⁴⁾

Cameron AP. Medical management of neurogenic bladder with oral therapy. Transl Androl Urol. 2016; 5:51–62

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