

Clinical Trial	Year	Purpose	Results	Link	Source
Effects of alverine citrate on cat intestinal mechanoreceptor responses to chemical and mechanical stimuli	2001	To determine whether alverine citrate acts on the vagal sensory endings.	The intestinal mechanoreceptors located at the endings of type C vagal fibres responded mainly to mechanical stimuli (distension and contraction), but also responded to chemical substances (cholecystokinin and substance P). The most conspicuous effect of alverine (2 mg/kg) was that it significantly inhibited the pattern of vagal activity produced in response to either cholecystokinin (5–10 µg/kg), substance P (5–10 µg/kg) or phenylbiguanide (5–10 µg/kg), a 5-HT ₃ receptor agonist.	https://onlinelibrary.wiley.com/doi/abs/10.1046/j.1365-2036.1999.00497.x	Aliment Pharmacology and Therapeutics (AP&T)
Rectal antinociceptive properties of alverine citrate are linked to antagonism at the 5-HT _{1A} receptor subtype	2001	This study was designed to evaluate the pharmacological properties of alverine citrate in a rat model of rectal hyperalgesia induced by 5-HTP (5-HT precursor) and by a selective 5-HT _{1A} agonist (8-OH-DPAT) and to compare this activity with a reference 5-HT _{1A} antagonist (WAY 100635)	Results suggest that 5-HTP-induced rectal hypersensitivity involves 5-HT _{1A} receptors and that alverine citrate acts as a selective antagonist at the 5-HT _{1A} receptor subtype to block both 5-HTP and 8-OH-DPAT-induced rectal hypersensitivity	https://onlinelibrary.wiley.com/doi/epdf/10.1211/002235701177783	Royal Pharmaceutical Society of Great Britain, (Journal of Pharmacy & Pharmacology) (JPP)
Evolving mechanisms of action of alverine citrate on phasic smooth muscles	2009	We have investigated the mechanisms underlying the paradoxical ability of the antispasmodic, alverine, to enhance spontaneous activity in smooth muscles while suppressing evoked activity.	Alverine suppressed contractions produced by high K (40 mM) or ACh (10 µM), without affecting electrical responses and with little suppression of increases in [Ca ²⁺] _i . This feature was very similar to that of the effects of the Rho kinase inhibitor Y-27632 (10 µM).	https://bpspubs.onlinelibrary.wiley.com/doi/full/10.1038/sj.bjp.0707496	British Pharmacological Society, (British Journal of Pharmacology) (BJP)
The efficacy of alverine citrate/simeticone combination on abdominal pain/discomfort in irritable bowel syndrome - a randomized, double-blind, placebo-controlled study	2010	To evaluate the efficacy of alverine citrate and simeticone combination in patients with IBS-related abdominal pain/discomfort	The full analysis set included 409 patients. At week 4, alverine citrate and simeticone group had lower VAS scores of abdominal pain/discomfort & higher responder rate as compared with placebo group. Patient receiving alverine citrate and simeticone reported greater global symptom improvement compared with those receiving placebo. Reported adverse events were similar in both groups.	https://onlinelibrary.wiley.com/doi/full/10.1111/j.1365-2036.2009.04216.x	Aliment Pharmacology and Therapeutics (AP&T)
Effect of antispasmodic agents, alone or in combination, in the treatment of Irritable Bowel Syndrome: systematic review and meta-analysis	2012	To determine the clinical effectiveness of the antispasmodic agents available in Mexico for the treatment of IBS	Twenty-seven studies were identified, 23 of which fulfilled inclusion criteria. The studied agents were pinaverium bromide, mebeverine, otilonium, trimebutine, alverine, hyoscine, alverine/simethicone, pinaverium/simethicone, fenoverine, and dicyclomine. A total of 2585 patients were included in the meta-analysis. Global improvement was 1.55 (CI 95%: 1.33 to 1.83). Otilonium and the alverine/simethicone combination produced significant values in global improvement	https://www.sciencedirect.com/science/article/pii/S0375090612000109?via%3Dihub	ELSEVIER
Anti-Inflammatory Functions of Alverine via Targeting Src in the NF-κB Pathway.(in vitro & in vivo)	2020	Alverine, a smooth muscle relaxant, is used to relieve cramps or spasms of the stomach and intestine. Although the effects of alverine on spontaneous and induced contractile activity are well known, its anti-inflammatory activity has not been fully evaluated. In this study, we investigated the anti-inflammatory effects of alverine in vitro and in vivo.	In conclusion, alverine reduced inflammatory responses by targeting Src in the NF-κB pathway, and these findings provide new insights into the development of anti-inflammatory drugs.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7225962/	National Center for Biotechnology Information (NCBI)
Patient leaflet info	2015			https://www.hpra.ie/img/uploaded/swedocuments/PIL-2179099-14092016172239-636094705702516250.pdf	Auden Mckenzie (Pharma Division) Ltd. UK
Summary of Product Characteristics Updated	2020		(120mg)	https://www.hpra.ie/img/uploaded/swedocuments/Licence_PA22965-001-002_13032020134318.pdf	(60mg) Blackrock Pharmaceuticals Limited