

Literature Review

Topical Vasodilator Usage

Medication	Title of Article	Pubmed Link
NIFEDIPINE	Randomized controlled pilot trial of nifedipine as oral therapy vs. topical application in the treatment of fissure-in-ano.	http://www.ncbi.nlm.nih.gov/pubmed/24035211
NIFEDIPINE	Confirmed efficacy of topical nifedipine in the treatment of facial wrinkles.	http://www.ncbi.nlm.nih.gov/pubmed/23688162
NIFEDIPINE	The effect of topical nifedipine in treatment of chronic anal fissure.	http://www.ncbi.nlm.nih.gov/pubmed/21287460
NIFEDIPINE	Topical nifedipine for the treatment of localized provoked vulvodynia: a placebo-controlled study.	http://www.ncbi.nlm.nih.gov/pubmed/20537958
NIFEDIPINE	Topical nifedipine with lidocaine ointment versus active control for pain after hemorrhoidectomy: results of a multicentre, prospective, randomized, double-blind study.	http://www.ncbi.nlm.nih.gov/pubmed/20100408
NIFEDIPINE	Treatment of periorcular wrinkles with topical nifedipine.	http://www.ncbi.nlm.nih.gov/pubmed/19929263
NIFEDIPINE	Serum levels and possible haemodynamic effects following anorectal application of an ointment containing nifedipine and lignocaine : a study in healthy volunteers.	http://www.ncbi.nlm.nih.gov/pubmed/17163278
NIFEDIPINE	Topical 0.5% nifedipine vs. lateral internal sphincterotomy for the treatment of chronic anal fissure: long-term follow-up.	http://www.ncbi.nlm.nih.gov/pubmed/16091912
NIFEDIPINE	Topical nifedipine vs. topical glyceryl trinitrate for treatment of chronic anal fissure.	http://www.ncbi.nlm.nih.gov/pubmed/12794583
NIFEDIPINE	Conservative treatment of acute thrombosed external hemorrhoids with topical nifedipine.	http://www.ncbi.nlm.nih.gov/pubmed/11289288
NIFEDIPINE	Nifedipine for local use in conservative treatment of anal fissures: preliminary results of a multicenter study.	http://www.ncbi.nlm.nih.gov/pubmed/10458123
DILTIAZEM	Partial lateral internal sphincterotomy versus combined botulinum toxin A injection and topical diltiazem in the treatment of chronic anal fissure: a randomized clinical trial.	http://www.ncbi.nlm.nih.gov/pubmed/25585082
DILTIAZEM	Diltiazem vs. glyceryl tri-nitrate for symptomatic relief in anal fissure: a randomised clinical study.	http://www.ncbi.nlm.nih.gov/pubmed/25272534
DILTIAZEM	Comparison of topical isosorbide mononitrate, topical diltiazem, and their combination in the treatment of chronic anal fissure.	http://www.ncbi.nlm.nih.gov/pubmed/24054756
DILTIAZEM	A randomized, prospective, double-blind, placebo-controlled trial of the effect of diltiazem gel on pain after hemorrhoidectomy.	http://www.ncbi.nlm.nih.gov/pubmed/23775515

Medication	Title of Article	Pubmed Link
DILTIAZEM	A prospective, randomized, double-blind study comparing the efficacy of diltiazem, glyceryl trinitrate, and lidocaine for the treatment of anal fissure in children.	http://www.ncbi.nlm.nih.gov/pubmed/22212494
DILTIAZEM	Early and late results of topical diltiazem and bethanechol for chronic anal fissure: a comparative study.	http://www.ncbi.nlm.nih.gov/pubmed/20422877
DILTIAZEM	Topical vasodilators for preventing radial artery spasm during harvesting for coronary revascularization: comparison of 4 agents.	http://www.ncbi.nlm.nih.gov/pubmed/16893753
DILTIAZEM	Topical diltiazem and bethanechol decrease anal sphincter pressure without side effects.	http://www.ncbi.nlm.nih.gov/pubmed/10517908
DILTIAZEM	A randomized trial of oral vs. topical diltiazem for chronic anal fissures.	http://www.ncbi.nlm.nih.gov/pubmed/11535842
VERAPAMIL	Topically applied verapamil hydrochloride inhibits tuberculin-induced delayed-type hypersensitivity reactions in human skin.	http://www.ncbi.nlm.nih.gov/pubmed/1469293
VERAPAMIL	Comparative study of topical application of timolol and verapamil in patients with glaucoma within 6 months.	http://www.ncbi.nlm.nih.gov/pubmed/20028263
VERAPAMIL	Topical verapamil in glaucoma filtration surgery.	http://www.ncbi.nlm.nih.gov/pubmed/11442185
PROPRANOLOL	Combination therapy of infantile hemangioma with pulsed dye laser with topical propranolol: a randomized clinical trial.	http://www.ncbi.nlm.nih.gov/pubmed/25305763
PROPRANOLOL	Propranolol and infantile hemangiomas: different routes of administration, a randomized clinical trial.	http://www.ncbi.nlm.nih.gov/pubmed/24135427