





Baclofen	Lioresal, Liofen	GABA derivative	CNS Depressant	Muscle Relaxant		2			2	0	0	
Balsam of Peru, topical		Resin	Hemorrhoid	Rash							0	
Beclomethasone dipropionate	Qvar, Beconase AQ	Glucocorticoid	Asthma	Dermatitis, psoriasis							0	
Belladonna alkaloids					3	3						2
Benazepril	Lotensin	ACE Inhibitor	Hypertension	CHF		1					0	
Benztropine	Cogentin							3	3		3	3
Benzocaine topical	Orajel	Ester anaesthetic	Analgesia								0	
Benzonatate	Tessalon, Zonatuss	Ester anaesthetic,	Antitussive								0	
Beta-carotene	Vitamin A	Carotenes									0	
Betamethasone, Betamethasone-	Celestone	Glucocorticoid	Rheumatic disorders	Asthma							0	
Betaxolol	Kerlone	Adrenergic (beta 1)	Glaucoma	Hypertension		1					0	
Bethanechol	Duvoid, Urecholine	Parasympathomimetic	Urinary Retention								0	
Bicalutamide	Casodex	Antiandrogen	Prostate cancer	Chemotherapy							0	
Bisacodyl	Ducolax	Triphenylmethane	Constipation	Laxative			1			0	0	
Bismuth subsalicylate	Pepto-Bismol	Colloid	Antacid	Diarrhea							0	
Bisoprolol	Zebeta	Adrenergic beta 1 antagonist	Hypertension	Angina							0	
Brimonidine ophthalmic	Alphagan	Vasoconstrictor	Glaucoma	Rosacea							0	
Brinzolamide ophthalmic	Azopt	Carbonic Anhydrase	Glaucoma	Ocular Hypertension							0	
Bromocriptine								0			1	
Brompheniramine	Veltane										3	3
Budesonide (PO and nasal)	Pulmicort	Corticosteroid	Asthma, COPD	IBD							0	
Bumetanide	Bumex	Loop diuretic (Sulfonamide)	CHF	Diuresis							0	
Bupropion	Wellbutrin, Zyban	Norepinephrine-dopamine	MDD	Smoking Cessation		1				0	0	1





Chlorthalidone	Thalitone	Sulfonamide diuretic	Hypertension				0				1	1
Chlorzoxazone	Parafonforte	Muscle Relaxant	Muscle relaxant	Muscle spasm							0	
Cholestyramine	Questran, Cholybar	Bile acid sequestrant	Hyperlipidemia (HLD)	Diarrhea							0	
Chondroitin sulfate		Glycosaminoglycan	Osteoarthritis								0	
Ciclopirox topical (olamine)		Antifungal	Superficial mycoses	Tinea versicolor							0	
Cilastatin		Beta-lactamase inhibitor	Antibiotic								0	
Cilostazol	Pletaal	Phosphodiesterase 3 inhibitor	PVD								0	
Cimetidine	Tagamet								2		2	1
Ciprofloxacin	Cipro, Ciloxan, Neofloxin	Fluoroquinolone	Antibiotic	UTI							0	
Cisapride	Prepulsid, Propulsid	Serotonin 4 Agonist	Gastric dysmotility	Gastroparesis							0	
Citalopram	Celexa, Cipramil	SSRI	MDD	OCD			1	1		1	0	
Clarithromycin	Biaxin	Macrolide antibiotic	Antibiotic	Lyme disease							0	
Clavulanate, Clavulanic acid		Beta-lactamase inhibitor	Antibiotic								0	
Clemastine	Tavist										3	3
Clindamycin	Clindamycin	Lincosamide	Antibiotic								1	
Clindamycin topical	Clindamycin	Lincosamide	Acne								0	
Clobazam	Frisium, Urbanol	Benzodiazepine	Anticonvulsant	Anxiety							0	
Clodronate		Bisphosphonate	Osteoporosis	Hypercalcemia							0	
Clomipramine	Anafranil				3						3	3
Clonazepam	Klonopin	Benzodiazepine	Seizures	Anxiety			1				1	
Clonidine	Catapres	Adrenergic (alpha 2) agonist	Hypertension	ADHD, Anxiety							0	
Clopidogrel	Plavix	Antiplatelet P2Y Inhibitor	Acute Coronary Syndrome	PCI			0		0		0	
Clorazepate	Tranxene	Benzodiazepine	Seizures	Anxiety	3						1	1

Clotrimazole	Canesten	Antifungal	Vaginal yeast	Athlete's foot							0	
Cloxacillin	Cloxapen	Penicillin antibiotic	Antibiotic	Cellulitis							0	
Clozapine	Clozaril							3	2	3	3	3
Codeine		Opioid	Analgesia	Diarrhea	2	1	1	0		0	1	1
Colchicine	Colcrys	Alkaloid	Gout	Pericarditis	3						0	1
Colestipol	Colestid, Cholestabyl	Bile acid sequestrant	Hyperlipidemia (HLD)	Diarrhea							0	
Collagenase topical	Santyl	Collagenase	Wound healing								0	
Conjugated estrogens	Premarin, Cenestin	Estrogen	Menopause								0	
Cortisone		Corticosteroid	Immunosuppression								1	
Cromolyn		Mast cell stabilizer	Asthma	Inflammation							0	
Cyanocobalamin	Vitamin B12	Vitamin	Pernicious anemia								0	
Cyclobenzaprine	Amrix, Flexeril					1			2		2	2
Cyclophosphamide	Cytoxan, Cycloblastin	Chemotherapeutic (alkylating)	Lymphoma, Multiple	Leukemia							0	
Cycloserine	Seromycin	D-alanine analogue	Antibiotic	Tuberculosis							1	
Cyclosporine	Neoral	DMARD	Immunosuppression								1	
Cyproheptadine	Periactin						3		3		2	2
Danazol	Danocrine	Androgen, anabolic steroid	Endometriosis	Hereditary angioedema							0	
Dantrolene	Dantrium	Ryanodine receptor	Malignant hyperthermia								0	
Darifenacin	Enablex										3	3
Demeclocycline	Declomycin	Tetracycline Antibiotic	Antibiotic								0	
Desipramine	Norpramine, Pertofrane					2			2		3	3
Desmopressin	DDAVP	Synthetic vasopressin	Diabetes insipidus	Hemophilia, von Willebrand's							0	
Desonide topical	Desowen	Corticosteroid	Atopic dermatitis	Seborrheic dermatitis							0	

Desoximetasone topical	Topisolone	Corticosteroid topical	Psoriasis								0	
Dexamethasone	Ozurdex	Corticosteroid	COPD	Adrenocortical insufficiency							1	
Dexamethasone (nasal, ophthalmic, topical)		Corticosteroid topical	Eczema	Rash							0	
Dexchlorpheniramine					3		3					3
Dextromethorphan	Robitussin, Delsym	Morphinan	Cough suppressant	Common cold		1					0	
Diazepam	Valium	Benzodiazepine	Anxiety	Alcohol Withdrawal			1	1		1	1	1
Diclofenac	Cataflam, Voltaren	NSAID COX-2 Inhibitor NSAID	Analgesia	Anti-inflammatory							0	
Dicyclomine	Bentyl								3	3	3	3
Dienestrol topical	Dienestrol	Estrogen, synthetic	Menopause	Prostate cancer							0	
Diflunisal	Dolobid	NSAID, Salicylic acid derivative	Analgesia	Anti-inflammatory							0	
Digitoxin	Digitaline	Cardiac glycoside	CHF	Arrhythmia				1		1	1	
Digoxin	Lanoxin	Cardiac glycoside	CHF	Arrhythmia	3		1	1			1	1
Dihydroxyaluminum sodium carbonate	Carbaldrate	Antacid	GERD								0	
Diltiazem	Cardizem, Tiazac	Calcium channel blocker	Hypertension	Angina				0		0	1	
Dimenhydrinate											3	3
Diphenhydramine						3			3	2	3	3
Diphenoxylate		Opioid	Diarrhea					0		1	0	
Dipivefrin ophthalmic	Propine	Epinephrine	Glaucoma (open-angle)								0	
Dipyridamole	Persantine	Platelet inhibitor	Thrombolytic	CAD, PAD				0		0	1	1
Dirithromycin	Dynabac	Macrolide antibiotic	Antibiotic								0	
Disopyramide	Norpace							0	0		2	1
Divalproex sodium	Depakote	Anticonvulsant	Seizures								1	
Dobutamine	Dobutrex	Adrenergic beta 1 agonist	Heart failure	Cardiogenic Shock							0	



Docusate	Colace	Laxative	Constipation								0	
Domperidone							1					
Donepezil	Aricept	Cholinesterase inhibitor	Alzheimer's Dementia				0	0			0	
Dopamine	Intropin	Catecholamine	Hypotension	Cardiac arrest							0	
Dorzolamide ophthalmic	Trusopt	Carbonic anhydrase	Glaucoma								0	
Dosulepin							2					
Doxazosin	Cardura	Adrenergic alpha 1 selective	Hypertension	Benign prostatic hyperplasia							0	
Doxepin	Sinequan, Zonalon					3		3		3	3	3
Doxycycline	Doryx, Doxylin	Tetracycline Antibiotic	Antibiotic								0	
Duloxetine	Cymbalta	SNRI	MDD	GAD			0			1	0	
Econazole topical	Spectazole	Antifungal, imidazole	Athlete's foot	Tinea							0	
Edrophonium	Tensilon, Enlon	Acetylcholinesterase Inhibitor	Myasthenia gravis diagnosis								0	
Emepronium								3				
Empracet												2
Enalapril	Vasotec	ACE Inhibitor	Hypertension	Diabetes type 2			0	0		0	0	
Enoxaparin	Lovenox	LMW Heparin	DVT, PE	ACS							0	
Entacapone	Comtan	COMT-inhibitor	Parkinson's Disease						1		0	
Epoetin alfa	Epogen	Erythropoetin, synthetic	Chronic renal failure	Anemia							0	
Ergocalciferol	Drisdol, Calcedrol	Vitamin D supplement	Vitamin D Deficiency	Hypocalcemia							0	
Ergoloid mesylates	Hydergine	Methanesulfonate salt	Dementia	Stroke							0	
Erythromycin	Eryc, Erythrocin	Macrolide antibiotic	Antibiotic								0	
Escitalopram	Lexapro, Cipralex	SSRI	MDD	GAD			1			1	0	
Esomeprazole	Nexium	Proton-pump inhibitor	GERD, dyspepsia	PUD							0	





Glipizide	Glucotrol	Sulfonylurea antidiabetic	Diabetes mellitus 2				0	0		0	0	
Glucagon	GlucaGen	Glycogenolytic	Hypoglycemia	Anaphylaxis							0	
Glucosamine	N-acetylglucosami	Supplement	Osteoarthritis								0	
Glyburide		Sulfonylurea antidiabetic	Diabetes mellitus 2								0	
Glycerin topical			Itchiness	Dry skin							0	
Guaifenesin	Mucinex	Expectorant	Cough	Phlegm		1					0	
Guanfacine	Intuniv, Estulic, Tenex	Adrenergic alpha 2A	Hypertension	ADHD							0	
Halcinonide topical	Halog	Corticosteroid									0	
Haloperidol	Haldol	Antipsychotic (Typical)	Schizophrenia	Mania			2	0	1	0	0	1
Heparin	Unfractionated Heparin	Anticoagulant, Antithrombin III	DVT, PE	Angina							0	
Homatropine						3						
Hydralazine	Apresoline	Vasodilator	Hypertension				0				1	1
Hydrochlorothiazide (HCTZ)	Apo-hydro	Thiazide diuretic	Hypertension	RTA			0	0		0	0	
Hydrocodone	Vicodin, Norco	Opioid	Analgesia	Antitussive		2				1	0	
Hydrocortisone	Cortisol	Corticosteroid	Asthma, COPD	Rheumatoid Arthritis							1	1
Hydrocortisone (ophthalmic, otic, topical)	Cortisol	Corticosteroid	Dermatitis	Etc							0	
Hydromorphone	Dilaudid	Opioid	Analgesia								0	
Hydroxychloroquine	Plaquenil	Antimalarial, 4-aminoquinolone	Malaria	RA, Lupus, Porphyria Cunea							0	
Hydroxypropyl methylcellulose ophthalmic	Hypromellose	Excipient	Eye Drops								0	
Hydroxyurea	Droxia, Hydrea	Antineoplastic	Sickle-cell disease	CML, PV							0	
Hydroxyzine	Atarax, Vistaril											
Hyoscyamine									3	3	3	3
Ibuprofen	Advil, Motrin	NSAID	Analgesia				0	0		0	0	

Imipenem	Premaxin	Beta-lactam Antibiotic,	Antibiotic	Pseudomonas							0	
Imipramine	Janimine, Tofranil				3	3	3		3		3	3
Indapamide		Thiazide-like diuretic	Hypertension	Heart attack, stroke							0	
Indomethacin	Indocid, Indocin	NSAID	Analgesia	Inflammation							0	
Insulin		Insulin	Diabetes mellitus 2, 1	DKA			0	0			0	
Ipratropium	Atrovent, Apovent	Muscarinic antagonist	COPD	Asthma, COPD				3			0	
Irbesartan	Avapro	Angiotensin (ATN) II receptor	Hypertension								0	
Iron polysaccharide	Iron	Supplement	iron-deficiency anemia								0	
Isoniazid	Hydra, Hyzyd, Isovit	Antibiotic	Mycobacterium tuberculosis, TB	Atypical mycobacteria							0	
Isosorbide		Nitrite	Angina Pectoris								1	
Isosorbide dinitrate		Nitrite	Angina Pectoris				0	0			1	1
Isosorbide mononitrate	Monoket, Imdur	Nitrite	Angina Pectoris				0	0			1	1
Isradipine	DynaCirc, Prescal	Calcium channel blocker	Hypertension	Stroke, heart attack							0	
Ketoconazole topical	Nizoral	Antifungal, ergosterol	Antifungal								0	
Ketoprofen	Ketoprofen	NSAID, ketoprofen	Analgesia	Arthritis			0	0			0	
Ketorolac						1						
Ketotifen ophthalmic	Zaditor	Antihistamine	Allergies								1	
Labetalol	Normodyne	Adrenergic beta and alpha	Hypertension								0	
Lactase	Lactaid	Lactase enzyme	Lactose deficiency								0	
Lactulose	Cholac, Generlac	Osmotic laxative	Hepatic encephalopathy	Constipation							0	
Lamotrigine	Lamictal	Anticonvulsant	Epilepsy	Bipolar							0	
Lanolin-mineral oil	Wool grease	Wax	Ointment								0	
Lansoprazole	Prevacid	Proton-pump inhibitor	GERD	Ulcers			0	1		1	0	

Latanoprost ophthalmic	Xalatan	Prostaglandin analogue	Glaucoma (open-angle)	Ocular hypertension							0	
Leuprolide	Lupron, Eligard	GnRH Analogue	Prostate cancer	Breast cancer							0	
Levobunolol ophthalmic	AK-Beta, Liquifilm	Adrenergic nonspecific beta	Glaucoma								0	
Levodopa (L-DOPA)	Lodosyn, Sinimet	Dopamine precursor	Parkinson's Disease	Restless Leg Syndrome			0	0		0	0	
Levofloxacin	Levaquin	Fluoroquinolone	Antibiotic							1	0	
Levomepromazine					3						2	
Levothyroxine		T4 analogue	Hypothyroidism								0	
Lidocaine	Xylocaine	Antiarrhythmic Class 1B,	Arrhythmia	Analgesia							0	
Lindane topical	Gammalin	Organocholine	Shampoo								0	
Liothyronine	Cytomel	T3 analogue	Hypothyroidism								0	
Lisinopril	Prinivil, Zestril	ACE Inhibitor	Hypertension	Heart failure			0	0		0	0	
Lithium		Mineral	Bipolar disorder				1			1	0	
Loperamide	Imodium	Opioid	Diarrhea	IBD		1	1		2	0	1	1
Loratadine	Claratin	Antihistamine Second	Allergies	Allergic Rhinitis		1	1		2	0	0	
Lorazepam	Ativan	Benzodiazepine	Anxiety	Anticonvulsion						0	1	
Losartan	Cozaar	Angiotensin (ATN) II receptor	Hypertension	Heart failure				0		0	0	
Loteprednol	Lotemax, Loterex	Corticosteroid	Uveitis	Keratitis							0	
Lovastatin	Mevacor	Statin	Hyperlipidemia, Hypercholesterolemia	ASCVD							0	
Loxapine	Loxitane										2	2
Lumiracoxib							1					
LVP (Large Volume Parenteral) Solution			Malnutrition								0	
Lysine		Amino Acid	Cold Sores								0	
Magnesium preparations	Magnesium	Supplement	Eclampsia	Magnesium Deficiency							0	



Methyltestosterone	Android, Metandren,	Androgen, anabolic steroid	Testosterone deficiency	Delayed puberty							0	
Metoclopramide	Reglan	Dopamine receptor	Nausea	GERD		3	1	0	1		0	
Metolazone	Zytanix, Zaroxolyn,	Thiazide-like diuretic	Congestive heart failure	Hypertension							0	
Metoprolol	Lopressor, Toprol-X	Adrenergic beta 1 antagonist	Hypertension	Migraine			0	0		0	0	1
Metronidazole	Flagyl	Antiprotozoal	Antibiotic								0	
Mexiletine	Mexitil	Antiarrhythmic Class 1B,	Arrhythmia	Myotonic dystrophy							0	
Miconazole topical	Monistat, Desenex	Antifungal, ergosterol	Ringworm	Athlete's foot							0	
Midazolam	Versed	Benzodiazepine	Anaesthesia	Anticonvulsion							1	
Midodrine	Amatine, Gutron, Bramox	Adrenergic alpha 1 agonist	Orthostatic hypotension								0	
Mineral oil		Higher alkanes, petroleum	Constipation								0	
Minocycline	Minocin, Minomycin,	Tetracycline Antibiotic	Antibiotic								0	
Mirtazapine	Remeron	SSRI	Antidepressant	Anxiety					1	1	0	
Misoprostol	Cytotec, Misodel	Synthetic prostaglandin	Induction of labor								0	
Moexipril	Univasc	ACE Inhibitor	Hypertension	Congestive Heart Failure							0	
Molindone	Moban										2	2
Mometasone nasal		Glucocorticoid, synthetic									0	
Montelukast	Singulair	Leukotriene D4 antagonist	Asthma	Allergic Rhinitis							0	
Morphine	MS Contin	Opioid	Analgesia	MI		1				0	1	1
Moxifloxacin	Avelox	Fluoroquinolone	Antibiotic								0	
Multivitamin		Nutritional supplement									0	
Mupirocin topical	Bactroban	Protein synthesis	Antibiotic	MRSA							0	
Nabumetone	Relafen, Relifex, Gambaran	NSAID (COX-2 selective)	Analgesia	Inflammation							0	
Nadolol	Corgard	Adrenergic beta antagonist, non-	Hypertension	Angina							0	



Naloxone	Narcan	Opioid antagonist	Opioid overdose								0	
Naproxen	Aleve, Naprosyn	NSAID, nonselective	Analgesia	Inflammation							0	
Naratriptan							1					
Nateglinide	Starlix	Meglitinide	Diabetes mellitus 2								0	
Nefazodone	Serzone, Dutonin,	Serotonin antagonist and	MDD	Panic Disorder		1					0	
Neomycin ophthalmic	Neo-rx, Neomycin	Aminoglycoside	Antibiotic	Hepatic encephalopathy							0	
Niacin	Vitamin B3	Nutritional supplement	HLD	Pellagra							0	
Nifedipine	Adalat, Procardia	Calcium channel blocker	Angina Pectoris	Hypertension			0	0		0	1	1
Nisoldipine	Sular	Calcium channel blocker	Hypertension								0	
Nitrofurantoin	Macrobid	Ribosomal protein	Antibiotic	UTI							0	
Nitroglycerin		Nitrate	Angina Pectoris				0	0		0	0	
Nizatidine	Tazac, Axid	Histamine (H2) Antagonist	GERD	PUD			0				1	
Norepinephrine	Levarterenol, Levophed,	Adrenergic alpha 1 and 2	Hypotension	Septic shock							0	
Norfloxacin	Noroxin, Chiboroxin	Fluoroquinolone	Antibacterial								0	
Nortriptyline	Pamelor					3		2	2	2	3	3
Nystatin	Mycostatin	Antifungal, ergosterol	Antibiotic	Candida infection							0	
Octreotide	Sandostatin	Somatostatin analogue	Growth hormone	Esophageal varices							0	
Ofloxacin	Flxin, Ocuflax	Fluoroquinolone	Antibiotic								0	
Olanzapine	Zyprexa	Antipsychotic (Atypical)	Scizophrenia	Bipolar		1		2	2	2	1	3
Olopatadine	Pazeo, Pataday, Ptanol	Antihistamine, Anticholinergic	Allergic conjunctivitis								0	
Omeprazole	Prilosec, Losec	Proton-pump inhibitor	GERD, PUD	Zollinger-Ellision Syndrome				0		0	0	
Opipramol					3							
Orphenadrine	Disipal, Norflex				3			3			3	3









salmeterol												
salsalate												
Scopolamine (Hyoscine)						3					3	3
Selegiline								0	1		0	
selenium												
Senna							0	0			0	
Sertraline	Zoloft	SSRI	MDD	OCD			0	0		0	1	
silver												
simethicone												
Simvastatin							0	0		0	0	
sodium												
sotalol												
Spironolactone							0	0			0	
succinylcholine												
sucrafate												
sulfacetamide												
sulfadiazine												
sulfamethizole												
sulfamethoxazole												
sulfate												
sulfide												
sulindac												
Sumatriptan								1				



Tramadol	Ultram	Opioid, SNRI	Analgesia			2	2			0	1	
Trandolapril						1					0	
Trazodone	Desyrel, Trialodine					1			1	0	0	1
Triamcinolone	Kenalog	Glucocorticoid	Eczema	Psoriasis							1	
Triamterene	Dyrenium	Diuretic (Potassium-	Hypertension	Edema			0				1	1
Triazolam	Halcion	Benzodiazepine	Insomnia	Anticonvulsion		1					1	
trichlormethiazide												
triethanolamine												
Trifluoperazine	Stelazine	Antipsychotic (Typical)	Schizophrenia	GAD					3		1	3
Trihexyphenidyl	Artane, Tremin				3	3		3			3	3
Trimethoprim							0			0	0	
Trimipramine	Surmontil				3			3			3	3
troglitazone												
Tropatepine					3							
trypsin												
tuberculin												
ursodiol												
Valproate sodium											1	
Valproic acid	Depakote, Convulex		Anticonvulsion	Bipolar, Migraine			0			0	1	
valsartan												
Vancomycin	Vancocin	Glycopeptide antibiotic	Antibiotic	MRSA							1	
vecuronium												
Venlafaxine								0		0	0	



Verapamil							0	0			0	
Warfarin	Coumadin	Anticoagulant	DVT, PE	Stroke			0	0		0	1	1
zafirlukast												
zaleplon												
zinc												
Ziprasidone									1	0		
Zolmitriptan							1					
Zolpidem							0			0	0	
Zopiclone							0	0			0	

\*The Foundation of this table as noted in the blog post was adapted from Duran 2013, with Boustani 2008 and Carnahan 2006 and appendix studies. We also added clinical indications, colors, and hopefully this resource will be of help to clinicians. Please share freely. We updated this sheet on 9/26/2021 changing hydroxyzine. Orzechowski, R.F., et al. Comparative Anticholinergic Activities of 10 Histamine H1 Receptor Antagonists in Two Functional Models. European Journal of Pharmacology 2005; 506(3): 257-64.

#### Abstract

We determined the relative rank orders of anticholinergic potencies of 10 antihistamines in two functional bioassays: (1) an in vitro assay measuring inhibition of carbachol-induced contractions of isolated guinea pig trachealis muscle, (2) an in vivo bioassay comparing systemic hypotensive responses to bolus i.v. injections of acetylcholine before and after infusions of an antihistamine in anaesthetized rats. In vitro, the rank order of anticholinergic potencies of the antihistamines was cyproheptadine>promethazine>desloratadine>diphenhydramine>loratadine>chlorpheniramine>hydroxyzine>pyrilamine. The pA<sub>2</sub> values ranged from 8.2±0.4 for cyproheptadine to 4.8±0.4 for pyrilamine. Fexofenadine and cetirizine (up to 3 x 10<sup>-4</sup> M) were inactive. In vivo, five