

Links and description of this table can be found here: <https://www.psychiatrypodcast.com/psychiatry-psychotherapy-podcast/anticholinergic>

					Cognitive Outcomes				Anticholinergic-specific Outcomes				
Drug (Generic)	Drug (Brand)	Drug Class	Drug Indication	Drug indication (secondary)	Ancelin 2006	Han	Sittironnarit	Ehrt	Rudolph	Chew	Carnahan 2006 & Appendix	Boustani	Orzechowski, 2015
				Cognitive Performance, Mild Cognitive Impairment	Memory Performance, Executive Function	Psychomotor Speed, Executive Function	Long Term Cognitive Decline	Frequency of Anticholinergic Adverse Events	Anticholinergic activity in vivo	Serum anticholinergic activity	ACB Scale: Add numbers. Limit Patients to Score of 3		
				n = 372, >60yo w/o dementia	n = 544, HTN males >65	n = 1112, >60, sub norm or w/ Alz's, mild cog impair	n = 78, mean 68.7, w/ Parkinson's	n = 132, 117, males >65, or geriatrics	n = 107, drugs used in older adults	n = 279, residents of long-term care, mean 87yo			
Acarbose			Diabetes								0		
Acepromazine					3								
Aceprometazine					3								
Acetaminophen											0		
Acetazolamide	Diamox	Carbonic Anhydrase	Glaucoma	Heart Failure							0		
Acetic Acid Topical	Vinegar		Ear infections	Cervical cancer							0		
Acetylsalicylic acid	Aspirin	NSAID	Analgesia	Pericarditis, Kawasaki			0	0		0	0		
Acyclovir	Zovirax	Nucleic acid analogue	HSV	EBV, CMV							0		
Adenosine	Adenocard	Nucleic acid analogue	Arrhythmia	Stress test							0		
Albuterol	Ventolin	Adrenergic (beta 2) agonist	COPD	Asthma							0		
Alendronate	Fosamax	Bisphosphonate	Osteoporosis								0		
Alimemazine					2			0				1	
Allopurinol							0	0			0		
Alprazolam	Xanax				3	1	1			0	1	1	
Aluminum carbonate	Basaljel		Indigestion								0		
Aluminum hydroxide	AlternaGEL		Indigestion	Antacid							0		

Alverine					2								1	
Amantadine	Symadine								2		1	2		
Amiloride	Midamor	Diuretic (Potassium-)	Hypertension	Edema							0			
Amiodarone	Cordarone, Nexterone	Antiarrhythmic (Class 3)	V Tachy, V Fib	A Fib							0			
Amitriptyline	Elavil				3	3	3	3	3	3	3	3	3	
Amlodipine	Norvasc	Calcium channel blocker	Hypertension	CAD			0	0		0	0			
Ammonium lactate topical	Lac-hydrin		Moisturizing								0			
Amoxapine					3								3	
Amoxicillin		Beta-lactam Antibiotic	Antibiotic	Pneumonia			0			1	0			
Amoxicillin-Clavulanate	Augmentin	Beta-lactam Antibiotic, beta-	Antibiotic	UTI, Pneumonia							0			
Ampicillin	Principen	Beta-lactam Antibiotic	Antibiotic	URI, UTI							1			
Anagrelide	Agrylin	Phosphodiester ase inhibitor	Essential Thrombocytosis	CML							0			
Anastrozole	Arimidex	Aromatase inhibitor	Breast cancer								0			
Anileridine	Leritine	Piperidine analgesic	Analgesia								0			
Apraclonidine ophthalmic	Iopidine	Adrenergic (alpha 2, 1)	Glaucoma	Post-surgical IOP							0			
Ascorbic acid	Vitamin C	Essential nutrient	Scurvy								0			
Atenolol	Tenormin						0	0		0	0	1		
Atorvastatin							0	0		0	0			
Atropine					3	3			3	3	3	3	3	
Azathioprine											1			
Azithromycin	Zithromax	Macrolide antibiotic	Ear infections	Pneumonia							0			
Bacitracin ophthalmic, topical	Baciim	Cyclic peptides	Antibiotic								0			
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		
Benzatropine	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
Buspirone	Buspar	Serotonin 1A Agonist 5HT1A	GAD	MDD							0		

Butabarbital	Butisol	Barbituate	Insomnia	Anxiety							0		
Butalbital		Barbituate	Tension headache	Analgesia							0		
Caffeine	Caffeine citrate	Methylxanthine	Bronchopulmonary dysplasia	Apnea of Prematurity							0		
Calamine topical	Zinc oxide, Ferric oxide	Astringent, Antipruritic	Itchiness								0		
Calcipotriene topical, Calcipotriol	Dovonex	Vitamin D Receptor	Psoriasis	Alopecia areata							0		
Calcitonin		Calcitonin Receptor	Osteoporosis	Hypercalcemia							0		
Calcitriol	Rocaltrol	Vitamin D Receptor	Osteoporosis	Hypocalcemia							0		
Calcium acetate	Acetate of lime		Hyperphosphatemia								0		
Calcium and Vitamin D											0		
Calcium carbonate	Calcium supplements		Hyperphosphatemia	Antacid							0		
Camphor-menthol		TRPV3,1 Receptor	Analgesia								0		
Candesartan	Atacand, Blopress	Angiotensin II Receptor	Hypertension	CHF							0		
Captopril	Capoten						0	0			1	1	
Carbachol ophthalmic	Carbastat, Caroptic	Cholinergic agonist	Glaucoma	Eye surgery							0		
Carbamazepine	Carbatrol, Teril					1	0	0		0	2	2	
Carbamide peroxide otic	Debrox		Earwax removal								0		
Carbidopa	Lodosyn	DOPA Decarboxylase	Parkinson's			1	1			1	0	0	
Carboxinamine	Clistin										3	3	
Carisoprodol	Soma	Carbamate	Muscle relaxant						3		0		
Carvedilol	Coreg	Adrenergic nonselective	CHF, LVD	Hypertension							0		
Casanthranol (casanthranol-docusate)	Vemas, Vencoll	Laxative	Constipation								0		
Cascara sagrada		Laxative	Constipation								0		
Castor oil		Laxative	Constipation								0		

Cefaclor	Ceclor	Cephalosporin (2nd gen) beta	Antibiotic									0		
Cefalexin (Cephalexin)	Keflex	Cephalosporin (1st gen) beta	Antibiotic				0				1	0		
Cefamandole												1		
Cefazolin	Ancef	Cephalosporin (1st gen) beta	Antibiotic									0		
Cefixime		Cephalosporin (3rd gen) beta	Antibiotic									0		
Cefoxitin												1		
Ceftibuten	Cedax	Cephalosporin (3rd gen) beta	Antibiotic									0		
Ceftriaxone	Rocephin, Epicephin	Cephalosporin (3rd gen) beta	Antibiotic									0		
Cefuroxime	Zinacef, Ceftin	Cephalosporin (2nd gen) beta	Antibiotic									0		
Celecoxib	Celebrex	NSAID (COX-2 selective)	Osteoarthritis	Analgesia			1				1	0		
Cephalothin		Cephalosporin										1		
Cerivastatin	Baycol, Lipobay	Statin	HLD	ASCVD								0		
Cetirizine	Zyrtec	Antihistamine H1 antagonist	Allergies	Urticaria		2	2			2	0	0		
Cetylpyridinium topical			Mouthwash	Toothpaste								0		
Chlral hydrate		Anaesthetic	Insomnia	Procedures								0		
Chlorambucil	Leukeran	Chemotherapeutic	CLL	Hodgkin's lymphoma								0		
Chlordiazepoxide		Benzodiazepine	Anxiety			1						1		
Chlorhexidine topical	Betasept, ChloraPrep	Disinfectant, Antiseptic	Procedures	Wound Cleaning								0		
Chlorothiazide	Diuril	Diuretic - Thiazide	CHF	Edema								0		
Chlorpheniramine					3	3	3			3		3	3	
Chlorpromazine	Thorazine, Largactil	Antipsychotic (Typical)	Schizophrenia	Bipolar		3				3	2	3	3	
Chlorpropamide	Diabinese	Sulfonylurea	Diabetes Mellitus 2									0		
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	Cytoxin, 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	Dantrelium	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	Hemophilila, von Willebrands							0		
Desonide topical	Desowen	Corticosteroid	Atopic dermatitis	Seborreic 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	Arrhythma	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	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	Erythropoietin, 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				
Estazolam	ProSom	Benzodiazepine	Anxiety	Anticonvulsion							1				

Esterified estrogens	Estratab, Mencet	Estrogen	Menopause	Prostate cancer							0		
Estradiol (incl topical)		Steroid hormone	Menopause	Hormone- responsive							0		
Estropipate	Harmogen, Improvera	Estrogen	Menopause								0		
Ethambutol	Myambutol	Antifungal, cell wall	Mycobacterium avium,								0		
Ethinyl estradiol		Estradiol synthetic	Combined oral contraceptive								0		
Etidronate	Didronel	Bisphosphonate	Osteoporosis	Paget's disease of bone							0		
Etodolac	Lodine	NSAID, COX-2 specific	Analgesia								0		
Famotidine	Pepcid	Histamine (H2) Antagonist	GERD	PUD			0				0	1	
Felbamate	Felbatol	GABA agonist, NMDA inhibitor	Anticonvulsant								0		
Felodipine	Plendil	Calcium channel blocker	Hypertension								0		
Fenofibrate	Fenoglide	Fibrate	Hyperlipidemia (HLD)	ASCVD							0		
Fentanyl	Duragesic	Opioid	Analgesia								1	1	1
Ferrous gluconate		Iron supplement	Hypochromic anemia								0		
Ferrous sulfate		Iron supplement	Iron-deficiency anemia								0		
Fexofenadine	Allegra	Antihistamine H1 antagonist	Allergic rhinitis	Chronic urticaria		2	2				0	0	
Filgrastim	Neupogen	G-CSF Recombinant	Neutropenia								0		
Finasteride	Proscar, Propecia	5-alpha reductase	Prostate enlargement	Male-pattern baldness							0		
Flavoxate	Urispas										3	3	
Flecainide acetate	Tambocor	Antiarrhythmic Class 1C	Atrial fibrillation	Supraventricular tachycardia							0		
Fluconazole	Diflucan	Antifungal, azole	Antifungal	Candidiasis							0		
Fludrocortisone	Florinef	Corticosteroid	Adrenogenital syndrome								0		
Flumazenil	Anexate, Lanexat	Benzodiazepine receptor	Benzodiazepine overdose								0		
Flunisolide	AeroBid, Nasalide	Corticosteroid	Allergic rhinitis								0		

Flunitrazepam								1						
Fluocinonide topical	Fluonex, Lidex	Glucocorticoid	Eczema	Seborreic dermatitis							0			
Fluoride topical		Fluoride derivative	Dental procedures								0			
Fluorometholone ophthalmic	Efflumidex, Flucon	Glucocorticoid, synthetic	Inflammatory Eye Diseases								0			
Fluoxetine	Prozac	SSRI	MDD	Bulimia		1	1	1		1	1			
Fluphenazine	Prolixin	Antipsychotic	Schizophrenia	Psychosis			3		3		1			
Flurazepam	Dalmane	Benzodiazepine	Insomnia								1			
Flutamide	Eulexin	Nonsteroidal antiandrogen	Prostate cancer								0			
Fluticasone		Glucocorticoid, synthetic	Intranasal symptoms								0			
Fluticasone-salmeterol	Advair	Glucocorticoid	Asthma	COPD							1			
Fluvastatin	Lescol, Canef, Vastin	Statin	Hypercholesterolemia	ASCVD							0			
Fluvoxamine	Luvox	SSRI	OCD	MDD			1	1			1	1		
Folic acid	Folate	Vitamin B9 Derivative	Megaloblastic anemia								0			
Fosinopril	Monopril	ACE Inhibitor	Heart failure	Hypertension							0			
Furosemide	Lasix	Loop diuretic	CHF	Hypertension	3		0	1		1	1	1		
Gabapentin	Neurontin	GABA Agonist, Gabapentinoid	Neuropathic pain	Partial Seizures, Restless leg							0			
Galantamine	Nivalin, Razadyne	Acetylcholinesterase Inhibitor	Alzheimer's Dementia	Cognitive Decline			0	0		0	0			
Gemfibrozil	Lopid, Jezil	Fibrate	Hyperlipidemia (HLD)				0	0			0			
Gentamicin	Garamycin	Aminoglycoside	Antibiotic	Sepsis							1			
Gentamicin (ophthalmic, topical)	Genoptic	Aminoglycoside	Antibiotic								0			
Ginkgo		Supplement	Cognitive decline								0			
Glimepiride	Amaryl	Sulfonylurea antidiabetic	Diabetes mellitus 2								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		3					0		
Homatropine													
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											0	
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, Sinemet	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, Lotrex	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		
Mannitol		Sugar alcohol	Glaucoma	Increased ICP								0		

Maprotiline					3										
Meclozine, Meclizine	Antivert								3		3	3			
Medroxyprogesterone	Provera, Depo-Provera	Progestin	OCP							0					
Megestrol	Megace	Progestin	Appetite stimulant	Breast cancer						0					
Meperidine, Pethidine	Demerol									2	2				
Meprobamate	Miltown, Equanil	Carbamate	Anxiety							0					
Mesalamine (5-ASA)	Asacol	Aminosalicylate	IBD	Ulcerative Colitis						0					
Metaxalone	Skelaxin	Muscle relaxant	Sprains	Musculoskeletal						0					
Metformin	Glucophage	Gluconeogenesis depressor	Diabetes mellitus 2	PCOS			1			1	0				
Methadone						2									
Methazolamide	Neptazane	Carbonic anhydrase	Glaucoma							0					
Methenamine (Urotropin)		Mandelic acid salt	Urinary tract infections (UTI)							0					
Methocarbamol						1			1						
Methotrexate (MTX), Amethopterin	Trexall, Rheumatrex	Dihydrofolate reductase	Chemotherapeutic	Immune system suppression			1			0					
Methotriptane	Levoprome, Nozinan									2	2				
Methyclothiazide		Thiazide diuretic	Edema	Hypertension						0					
Methylcellulose		Cellulose	Constipation	Artificial tears						0					
Methyldopa	Aldomet, Aldoril,	Alpha-2 adrenergic	Hypertension							0					
Methylene blue	Urelene blue, Provayblue		Methemoglobinemia							0					
Methylphenidate	Ritalin, Concerta	Norepinephrine-dopamine	ADHD	Narcolepsy						0					
Methylprednisolone	Solu-Medrol	Corticosteroid	Rheumatic disorders	Asthma, COPD						1	1				
Methylprednisolone topical										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, Relifax, 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	Tzac, 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	Flixin, 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	
Oxazepam	Serax, Alepam	Benzodiazepine	Anxiety	Anticonvulsion			1	0		0	1		

phenylpropanolamine															
Phenytoin											1	0			
phytonadione															
pilocarpine															
Pimozide	Orap											2	2		
pindolol															
Pioglitazone								0			0	0			
Piperacillin	Pipracil	Beta-lactam	Antibiotic									1			
pirbuterol															
Piroxicam								0	0			0			
pivampicillin															
polycarbophil															
polyethylene															
polymyxin															
polypeptide															
polysaccharide															
potassium															
Pramipexol								0	1		0				
pramipexole															
pramoxine															
pravastatin															
prazosin															
Prednisolone		Glucocorticoid	Rheumatoid arthritis	Inflammation				0			1	1			

Prednisone		Glucocorticoid	Inflammation								1		
preparations													
primidone													
probenecid													
procainamide													
Prochlorperazine	Compazine	Antipsychotic (Typical),	Antiemetic	Migraine		2	2	0	2		1		
Procyclidine	Kemadrin										3	3	
progesterone													
Promazine								2				3	
Promethazine	Phenergan, Zipan						0		3		3	3	
propafenone													
Propantheline						2					3		
Propenthaline												3	
Propoxyphene						2		1		1			
Propranolol							0			0	0		
propylthiouracil													
Protriptyline							3				3		
Pseudoephedrine							2				0		
psyllium													
purified													
pyrazinamide													
pyridostigmine													
Pyrilamine											3	3	

Tamoxifen							0	0			0		
tamsulosin													
Temazepam	Restoril	Benzodiazepine	Insomnia	Anticonvulsion			1			1	1		
terazosin													
terbinafine													
Terbutaline							0	0			0		
terconazole													
tetracycline													
Theophylline	Theolair	Methylxanthine	COPD	Asthma	2		2	1			1	1	
thiamine													
Thioridazine	Mellaril	Antipsychotic (Typical)	Schizophrenia	Bipolar		3		3	3	3	3	3	
Thiothixene, Tiotixene	Navane	Antipsychotic (Typical)	Schizophrenia	Bipolar					3		1		
thyroid													
ticlopidine													
Timolol							0	0			0		
Tizanidine									3				
tobramycin													
tolbutamide													
tolcapone													
Tolterodine	Detrol					3	3		2	3	3	3	
Topiramate										1	0		
torsemide													
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 pA₂ values ranged from 8.2+/-0.4 for cyproheptadine to 4.8+/-0.4 for pyrilamine. Fexofenadine and cetirizine (up to 3 x 10(-4) M) were inactive. In vivo, five