

Use of potentially inappropriate medications among ambulatory home-dwelling elderly patients with dementia: A review of the literature

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APPENDIX 1 Comparison of some drugs and classes of drugs identified as potentially inappropriate by different tools

PIM criteria	Drugs	2003 Beers criteria	Laroche List	Lindblad classification [†]	PRISCUS list
Analgesics					
Nonsteroidal anti-inflammatory drugs [‡]	Acemetacin				*
	Aspirin	*		*	
	Diflunisal	*			
	Etodolac	*			
	Etoricoxib				*
	Indomethacin	*	*		*
	Ketoprofen	*			*
	Ketorolac, includes parental	*			
	Meloxicam	*			*
	Naproxen	*			
	Oxaprozin	*			
	Phenylbutazone			*	*
	Piroxicam	*			*
	Opioid analgesics	Meperidine/pethidine	*		
Pentazocine		*			
Tramadol				*	
Antiarrhythmic drugs					
	Acetyldigoxin				*
	Amiodarone	*			
	Digoxin	*	*		*
	Disopyramide	*	*	*	
	Flecainide				*
	Metildigoxin				*
	Procainamide			*	
	Quinidine			*	*
	Sotalol				*
Antibiotics					
	Nitrofurantoin	*	*	*	*
Antidepressants					
Tricyclic/tetracycline antidepressants [§]	Amitriptyline	*	*		*
	Amoxapine	*	*		
	Clomipramine	*	*	*	*
	Desipramine	*			

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APPENDIX 1 (continued)

PIM criteria	Drugs	2003 Beers criteria	Laroche List	Lindblad classification [†]	PRISCUS list
	Dosulepin		*		
	Doxepine	*	*		*
	Imipramine	*	*		*
	Maprotiline		*		*
	Nortriptyline	*			
	Protriptyline	*			
	Trimipramine	*			
Norepinephrine-dopamine reuptake inhibitor	Bupropion	*	*		*
Selective serotonin reuptake inhibitor	Fluoxetine			*	
	Paroxetine	*			
Monoamine oxidase inhibitors	Tranlycypromine				*
Antiepileptic drugs/ barbiturates**					
	Amobarbital	*			
	Butobarbital	*			
	Butalbital	*			
	Carbamazepine			*	
	Mephobarbital	*			
	Pentobarbital	*			
	Phenobarbital	*			*
	Phenytoin			*	
	Secobarbital	*			
Antihistamines					
	Alimemazine		*		
	Brompheniramine	*	*		
	Buclizine		*		
	Carbinoxamine	*	*		
	Chlorpheniramine	*	*		*
	Clemastine	*			*
	Cyproheptadine	*	*		
	Dexbrompheniramine	*			
	Dexchlorpheniramine	*	*		
	Dexchlorpheniramine- betamethasone		*		
	Dimenhydrinate	*	*		
	Dimetindene				*

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APPENDIX 1 (continued)

PIM criteria	Drugs	2003 Beers criteria	Laroche List	Lindblad classification [†]	PRISCUS list
	Diphenhydramine	*	*		
	Doxylamine	*	*		
	Hydroxyzine	*	*		*
	Loratadine	*			
	Meclizine	*	*		
	Mequitazine		*		
	Oxomemazine		*		
	Pheniramine		*		
	Pimethixene		*		
	Promethazine	*	*		
	Triprolidine	*	*		*
Antihypertensive drugs					
Peripheral alpha-blockers	Doxazosin	*		*	*
	Prazosin	*	*	*	*
	Terazosin	*		*	*
	Urapidil		*		
Central alpha-blockers	Clonidine	*	*		*
	Guanabenz	*			
	Guanfacine	*	*		
	Methyldopa	*	*	*	*
	Moxonidine		*		
	Reserpine	*>0.1 mg/d	*	*	*
	Rilmenidine		*		
Calcium channel blockers	Diltiazem			*	
	Nicardipine		*		
	Nifedipine (immediate release)	*	*	*	*
	Verapamil			*	
Antiparkinsonian agents					
	Benztropine (oral)	*			
	Biperiden		*		
	Piribedil		*		
	Trihexyphenidyl	*	*		
	Tropatepine		*		
Antiplatelet drugs					
	Dipyridamole	*	*		
	Prasugrel				*

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APPENDIX 1 (continued)

PIM criteria	Drugs	2003 Beers criteria	Laroche List	Lindblad classification [†]	PRISCUS list
	Ticlopidine		*		*
	Aspirin	*>325 mg/d			
Antipsychotics					
Typical antipsychotics	Chlorpromazine	*	*	*	
	Cyamemazine		*		
	Fluphenazine		*		*
	Haloperidol			*	*>2 mg
	Levomepromazine		*		*
	Perphenazine		*		*
	Pipotiazine		*		
	Prochlorperazine	*			
	Propericiazine		*		
	Thioridazine	*		*	*
	Thiothixene	*		*	
Atypical antipsychotics	Clozapine	*		*	*
	Olanzapine	*			*>10 mg
Antispasmodics					
	Atropine (exclude ophthalmic)	*	*		
	Clidinium-chlordiazepoxide	*	*		
	Dicyclomine	*			
	Dihexyverine		*		
	Diphenoxylate-atropine		*		
	Hyoscyamine	*	*		
	Propantheline	*			
	Scopolamine	*	*		
	Tiemonium		*		
Urinary antispasmodics	Oxybutynine (non-sustained-release and sustained-release formulations)		*		*
	Solifenacin		*		*
	Tolterodine		*		*
Benzodiazepines					
Long-acting benzodiazepines	Aceprometazine		*		
	Bromazepam		*		*

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APPENDIX 1 (continued)

PIM criteria	Drugs	2003 Beers criteria	Laroche List	Lindblad classification [†]	PRISCUS list
	Chlorazepate	*	*		
	Chlordiazepoxide	*	*		*
	Clobazam		*		*
	Clonazepam	*			
	Clorazepate- acepromazine		*		
	Diazepam	*	*		*
	Dipotassium clorazepate				*
	Estazolam		*		
	Flunitrazepam		*		*
	Flurazepam	*			*
	Loflazepate		*		
	Medazepam				*
	Nitrazepam		*		*
	Nordazepam		*		
	Prazepam		*		*
	Quazepam	*			
Short- and intermediate- acting benzodiazepines	Alprazolam	*	*>2 mg/d		*
	Brotizolam				*0.125 mg/d
	Clotiazepam		*>5 mg/d		
	Estazolam	*			
	Loprazolam		*>0.5 mg/d		
	Lorazepam	*	*>3 mg/d		*>2 mg/d
	Lormetazepam		*>0.5 mg/d		*>0.5 mg/d
	Oxazepam	*	*>60 mg/d		*>60 mg/d
	Temazepam	*	*>15 mg/d		*
	Triazolam	*	*>0.25 mg/d		*
Benzodiazepine receptor analogues	Eszopiclone	*			
	Zaleplone	*			*>5 mg/d
	Zolpidem	*	*>5 mg/d		*>5 mg/d
	Zopiclone		*>3.75 mg/d		*>3.75 mg/d
Cerebral/peripheral vasodilators	Dihydroergocryptine		*		*

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PIM criteria	Drugs	2003 Beers criteria	Laroche List	Lindblad classification [†]	PRISCUS list
	Dihydroergotoxin		*		*
	Dihydroergocristine		*		
	Moxisylyte		*		
	Naftidrofuryl		*		*
	Nicergoline		*		*
	Pentoxifylline		*		*
	Raubasine-dihydroergocristine		*		
	Troxerutin-vincamine		*		
	Vinburnine		*		
	Vincamine		*		
	Vincamine-rutoside		*		
Endocrine					
Hormones	Methyltestosterone	*			
	Testosterone	*			
	Desiccated thyroid	*			
	Estrogens	*			
	Megestrol	*			
Long-acting sulfonylureas	Carbutamide		*		
	Chlorpropamide	*			
	Glipizide		*		
	Glyburide	*			
Thiazolidinediones	Cilostazol	*			
	Pioglitazone	*			
Antiemetic drugs	Rosiglitazone	*			
Gastrointestinal drugs					
H ₂ -receptor antagonists	Cimetidine	*	*		
Antiemetic drugs	Alizapride		*		
	Metoclopramide	*		*	
	Metopimazine		*		
Proton-pump inhibitors		*			
Genitourinary					
	Desmopressin	*			
Laxatives					
	Bisacodyl	*	*		
	Docusate		*		
	Sennosides		*		

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APPENDIX 1 (continued)

PIM criteria	Drugs	2003 Beers criteria	Laroche List	Lindblad classification [†]	PRISCUS list
	Sodium picosulfate		*		
Muscle relaxants					
	Baclofen		*		*
	Carisoprodol	*			
	Chlorzoxazone	*			
	Cyclobenzaprine	*			
	Metaxalone	*			
	Methocarbamol	*	*		
	Orphenadrine	*			
	Tetrazepam		*		*
Oral decongestants ***					
	Phenylephrine	*			
	Pseudoephedrine	*		*	
Central nervous system stimulants					
	Amphetamine	*			
	Methylphenidate	*		*	
	Theophylline	*			
Miscellaneous/natural health products					
	Aloe		*		
	Castor oil		*		
	Cascara		*		
	Ergotamine				*
	Ginkgo biloba		*		
	Mineral oil	*			
	Piracetam		*		*
	Viscous paraffin				*

Appendix to: Patel T, Slonim K, Lee L. Use of potentially inappropriate medications among ambulatory home-dwelling elderly patients with dementia: a review of the literature. *Can Pharm J (Ott)* 2017;150(3). DOI: 10.1177/17151635177011770.

[†]Lindblad classification included a list of clinically relevant drug-disease interactions.

[‡]All NSAIDs were considered inappropriate in the Beers Criteria for patients with certain conditions.

[§]All tricyclic antidepressants were considered inappropriate in Beers Criteria for patients with certain conditions.

**All barbiturates are considered inappropriate in the Beers Criteria for patients with certain conditions.

***All decongestants were considered inappropriate in Beers Criteria for patients with certain conditions.