

Supplementary Table S1. Master Drug Burden Index (DBI) list - medications for inclusion in the calculation of DBI

Drug	WHO ATC Code/s	Anticholinergic effects (AC)	Sedative effects (S)	Minimum effective daily dose by route of administration (mg)					
				Oral	Parenteral	Sublingual/buccal	Transdermal	Rectal	Inhalation
Alimemazine	R06AD01	AC	S	10					
Alprazolam	N05BA12		S	0.5					
Amantadine	N04BB01	AC		100					
Amisulpride	N05AL05		S	50					
Amitriptyline	N06AA09	AC	S	10					
Aripiprazole	N05AX12		S	10	10				
Asenapine	N05AH05		S			10			
Atropine	A03BA01 A03CB03	AC		0.6	0.3				
Baclofen	M03BX01		S	30	30				
Benperidol	N05AD07		S	0.125					
Benzatropine	N04AC01	AC		0.5	0.5				
Biperiden	N04AA02	AC	S	1					
Brompheniramine	R06AB01 R06AB51	AC	S	16					
Buclizine	R06AE51 R06AE01	AC	S	12.5					
Buprenorphine	N02AE01		S		0.12	0.4	0.12		
Buspirone	N05BE01		S	15					
Carbamazepine	N03AF01	AC	S	400				500	
Cetirizine	R06AE07		S	10					
Cloral Hydrate	N05CC01		S	430					
Chlordiazepoxide	N05BA02		S	5					
Chlorphenamine	R06AB04	AC	S	8	3				
Chlorpromazine	N05AA01	AC	S	30	6				
Cinnarizine	N07CA02	AC	S	60					

	N07CA52								
Citalopram	N06AB04		S	10					
Clemastine	R06AA04 R06AA54	AC	S	2					
Clobazam	N05BA09		S	10					
Clomethiazole	N05CM0 N05CX04		S	192					
Clomipramine	N06AA04	AC	S	30					
Clonazepam	N03AE01		S	0.5	0.5				
Clonidine	N02CX02 C02AC01		S	0.1					
Clozapine	N05AH02	AC	S	25					
Codeine	R05DA04 N02AJ06		S	120					
Cyclizine	R06AE03 N02AA51	AC	S	50	50				
Cyproheptadine	R06AX02	AC	S	4					
Darifenacin	G04BD10	AC		7.5					
Dexchlorpheniramine	R06AB02 R06AB52	AC	S	8					
Diazepam	N05BA01		S	1	1			1	
Dicycloverine	A03AA07	AC		30					
Dihydrocodeine	N02AA08 N02AJ01		S	40					
Dimenhydrinate	R06AA02 N07CA52	AC	S	150					
Diphenhydramine	N02BE71 N02BE51 R06AA02 R06AA52	AC	S	50					
Diphenoxylate	A07DA01		S	5					

Disopyramide	C01BA03	AC		300	300				
Dosulepin	N06AA16	AC	S	50					
Doxazosin	C02CA04		S	2					
Doxepin	N06AA12	AC	S	25					
Doxylamine	R06AA09 R06AA59 N02BE51	AC	S	25					
Duloxetine	N06AX21		S	30					
Escitalopram	N06AB10		S	5					
Fentanyl	N02AB03		S		0.3	0.6	0.3		
Fesoterodine	G04BD11	AC		4					
Fexofenadine	R06AX26		S	120					
Flavoxate	G04BD02	AC	S	600					
Flunitrazepam	N05CD03		S	0.5					
Fluoxetine	N06AB03		S	20					
Flupentixol	N05AF01	AC	S	0.5	0.3				
Fluphenazine	N05AB02	AC	S		0.36				
Flurazepam	N05CD01		S	15					
Fluvoxamine	N06AB08		S	100					
Gabapentin	N03AX12		S	900					
Glycopyrronium	A03AB02	AC	S	2	0.2				
Haloperidol	N05AD01		S	0.5	0.25				
Hydromorphone	N02AA03		S	7.8	2.6				
Hydroxyzine	N05BB01	AC	S	25					
Hyoscine base	A04AD01	AC	S				0.5		
Hyoscine Butylbromide	A03BB01	AC		30	30				
Hyoscine Hydrobromide	A04AD01	AC	S	0.9			0.5		
Hyoscyamine	A03CB31 A03BA03	AC		0.375					

Imipramine	N06AA02	AC	S	30				
Indoramin	C02CA02		S	20				
Lamotrigine	N03AX09		S	100 200*				
Levetiracetam	N03AX14		S	1000				
Levocetirizine	R06AE09		S	5				
Levomepromazine	N05AA02	AC	S	37.5	37.5			
Lofepramine	N06AA07	AC	S	140				
Loprazolam	N05CD11		S	1				
Loratadine	R06AX13		S	10				
Lorazepam	N05BA06		S	0.5	0.5			
Lormetazepam	N05CD06		S	0.5				
Loxapine	N05AH01	AC	S					4.5
Meclozine	R06AE05 R06AE55	AC	S	25				
Memantine	N06DX01		S	20				
Meptazinol	N02AX05		S	800				
Methadone	N07BC02		S	5				
Methocarbamol	M03BA03	AC	S	2250				
Methyldopa	C02AB01		S	500				
Metoclopramide	A03FA01 N02BE51		S	15	15			
Mianserin	N06AX03		S	30				
Mirtazepine	N06AX11		S	15				
Morphine	N02AA01 N02AA51		S	20	6.7			
Moxonidine	C02AC05		S	0.2				
Nefopam	N02BG06	AC	S	90				
Nitrazepam	N05CD02		S	2.5				
Nortriptyline	N06AA10	AC	S	30				

Olanzapine	N05AH03	AC	S	5	5				
Orphenadrine	N04AB02	AC		100					
Oxazepam	N05BA04		S	15					
Oxcarbazepine	N03AF02		S	600					
Oxybutynin	G04BD04	AC	S	5			1.95		
Oxycodone	N02AA05 N02AA55		S	20	10			20	
Paliperidone	N05AX13		S	3	0.89				
Paroxetine	N06AB05	AC	S	20					
Pentazocine	N02AD01		S	300	180				
Perampanel	N03AX22		S	4					
Pericyazine	N05AC01	AC	S	5					
Perphenazine	N05AB03	AC	S	3					
Pethidine	N02AB02		S	300	150				
Phenelzine	N06AF03		S	7.5					
Phenobarbital	N03AA02		S	60	60				
Phenytoin	N03AB02		S	200	200				
Pimozide	N05AG02	AC	S	2					
Pizotifen	N02CX01	AC	S	1.5					
Pramipexole	N04BC05		S	0.088					
Prazepam	N05BA11		S	10					
Prazosin	C02CA01		S	2					
Pregabalin	N03AX16		S	150					
Primidone	N03AA03		S	750					
Prochlorperazine	N05AB04	AC	S	10	1.25	4			
Procyclidine	N04AA04	AC		7.5					
Promazine	N05AA03	AC	S	100					
Promethazine	R06AD02	AC	S	20	5				
Propantheline	A03AB05	AC		22.5					

Propiverine	G04BD06	AC	S	15					
Quetiapine	N05AH04	AC	S	50					
Retigabine	N03AX21		S	600					
Risperidone	N05AX08		S	1	0.7				
Ropinirole	N04BC04		S	2					
Rotigotine	N04BC09		S				1		
Rufinamide	N03AF03		S	400					
Sertraline	N06AB06		S	50					
Solifenacin	G04BD08 G04CA53	AC		5					
Sulpiride	N05AL01	AC	S	400					
Tapentadol	N02AX06		S	100					
Temazepam	N05CD07		S	5					
Terazosin	G04CA03		S	2					
Tiagabine	N03AG06		S	15 30*					
Tizanidine	M03BX02	AC	S	6					
Tolterodine	G04BD07	AC	S	2					
Topiramate	N03AX11		S	50					
Tramadol	N02AX02 N02AJ13		S	200	200				
Trazodone	N06AX05		S	100					
Triazolam	N05CD05		S	0.125					
Trifluoperazine	N05AB06	AC	S	2					
Trihexyphenidyl	N04AA01	AC		5					
Trimipramine	N06AA06	AC	S	37.5					
Triprolidine	R06AX07	AC	S	10					
Tropium	G04BD09	AC		40					
Valproic Acid	N03AG01		S	1000					

Venlafaxine	N06AX16		S	75					
Vigabatrin	N03AG04		S	2000					
Zaleplon	N05CF03		S	5					
Ziprasidone	N05AE04		S	40					
Zolpidem	N05CF02		S	5					
Zonisamide	N03AX15		S	300					
Zopiclone	N05CF01		S	3.75					
Zuclopenthixol	N05AF05	AC	S	20	11.4				

WHO ATC, World Health Organisation Anatomical Therapeutic Classification

*Minimum effective daily dose if taken concurrently with agents that induce hepatic enzymes including phenytoin, carbamazepine, phenobarbitone, primidone, rifampicin and lopinavir/ritonavir.