



PGx Medication by Major Drug Class

QUICK REFERENCE LIST



Healius companies

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PGx Medication by Major Drug Class

Quick Reference List

The table below and overleaf shows the main medications covered by the PGx panels, sorted by drug class and listing common brands.

Drug Class	Generic Name	Brand Name	Gene	Our Panels		
				MH	Pain	Multi
ADHD -miscellaneous agents	Atomoxetine	Strattera	CYP2D6	●		●
Angiotensin receptor blockers	Losartan	Cozavan, Cozaar	CYP2C9		●	
	Irbesartan	Abisart, Avapro, Avsartan, Karvea	CYP2C9		●	
Antianginals	Perhexiline	Pexsig	CYP2D6		●	
Antiarrhythmics	Flecainide	Flecatab, Tambocor	CYP2D6		●	
Anticholinergics (genitourinary)	Darifenacin	Enablex	CYP2D6		●	
	Tolterodine	Detrusitol	CYP2D6		●	
Anticholinesterases	Donepezil	Arazil, Aricept	CYP2D6		●	
	Galantamine	Galantyl, Gamine XR, Reminyl	CYP2D6		●	
Anticoagulants	Warfarin	Coumadin, Marevan	VKORC1 CYP2C9		●	
	Agomelatine	Domion, Valdoxan	CYP1A2	●		●
	Mianserin	Lumin	CYP2D6	●		●
Antidepressants - other	Mirtazapine	Avanza, Axit, Mirtanza	CYP1A2 CYP2D6	●		●
	Moclobemide	Amira, Aurorix, Clobemix	CYP2C19	●		●
	Vortioxetine	Brintellix	CYP2D6	●		●
Antidepressants - SNRIs	Duloxetine	Cymbalta, Duloxecor, Dytrex, Tixol	CYP1A2 CYP2D6	●	●	●
	Venlafaxine	Efexor-XR, Elaxine-SR, Enlafax-XR	CYP2D6	●		●
	Citalopram	Celafram, Cipramil, Talam	CYP2C19	●		●
	Escitalopram	Esipram, Lexapro, Cilopam-S, Lexam, Loxalate	CYP2C19	●		●
Antidepressants - SSRIs	Fluoxetine	Fluotex, Lovan, Prozac, Zactin	CYP2C9 CYP2D6	●		●
	Fluvoxamine	Faverin, Luvox, Movox	CYP1A2 CYP2D6	●		●
	Paroxetine	Paxtine, Aropax, Extine	CYP2D6	●		●
	Sertraline	Sertra, Setrona, Eleva, Zoloft	CYP2C19	●		●
	Amitriptyline	Endep, Entrip	CYP2D6 CYP2C19	●	●	●
	Clomipramine	Anafranil, Placil	CYP2D6 CYP2C19	●		●
Antidepressants - TCAs	Dothiepin (a.k.a. Dosulepin)	Dothep	CYP2D6 CYP2C19	●		●
	Doxepin	Deptran	CYP2D6 CYP2C19	●		●
	Imipramine	Tofranil	CYP2D6 CYP2C19	●		●
	Nortriptyline	Allegron, NortriTABS	CYP2D6	●	●	●
	Glibenclamide	Daonil	CYP2C9			●
Antidiabetics	Gliclazide	Glyade MR, Diamicron MR, Glyade, Nidem	CYP2C19 CYP2C9			●
	Glimepiride	Amaryl, Dimirel	CYP2C9			●
	Glipizide	Minidiab	CYP2C9			●
	Metoclopramide	Pramin, Emexlon, Maxolon	CYP2D6			●
Antiemetics	Ondansetron	Zofran, Zotren, Zofran Zydus	CYP2D6			●
	Tropisetron	Tropisetron	CYP2D6			●
Antiepileptics	Phenytoin	Dilantin, Dilantin Infatabs, Dilantin Paediatric Suspension	CYP2C9			●
Antifungals - Azoles	Voriconazole	Vfend, Vtack, Vzole	CYP2C19			●
	Chlorpheniramine	Chlorphenamine	CYP2D6			●
Antihistamines	Dexchlorpheniramine	Polaramine	CYP2D6			●
	Promethazine	Allersoothe, Fenezal, Phenergan, Promethazine Hydrochloride, Allersoothe Elixir, Phenergan Elixir	CYP2D6			●
Antiplatelet drugs	Clopidogrel	Clovix, Iscover, Piax, Plidogrel, Plavicor, Plavix	CYP2C19			●
	Aripiprazole	Abilify, Tevzapiprazole, Abyraz, Abilify Maintena	CYP2D6	●		●
	Brexpiprazole	Rexulti	CYP2D6	●		●
	Chlorpromazine	Largactil	CYP2D6	●		●
	Clozapine	Clopine, Clozaril	CYD2D6 CYP1A2	●		●
Antipsychotics	Haloperidol	Serenace, Haldol	CYP2D6	●		●
	Olanzapine	Ozin, Pryzex, Zypine, Zyprexa, Zypine ODT, Zyprexa Zydus, Zyprexa Relprev	CYP1A2	●		●
	Quetiapine	Kaptan, Quetia, Seroquel, Syquet, Quepine XR, Quetia XR, Seroquel XR, Tevatiapine XR	CYP3A4	●		●
	Risperidone	Risperidol, Ozidal, Rispernia, Rixadone, Risperdal Consta	CYP2D6	●		●
	Zuclopentixol	Clopixol, Clopixol Acuphase, Clopixol Depot	CYP2D6	●		●

Drug Class	Generic Name	Brand Name	Gene	Our Panels		
				MH	Pain	Multi
Antitussives	Dextromethorphan	Bisolvon Dry Pastilles, Bisolvon Dry, Robitussin Dry Cough Forte	CYP2D6			●
Benzodiazepines	Clobazam	Frismium	CYP2C19	●		●
	Diazepam	Antenex, Valium, Valpam, Diazepam Elixir, Diazepam Rectal Solution	CYPC219	●		●
Beta blockers	Carvedilol	Carvidol, Volirop, Vedilol, Dicarz, Dilatrend, Vedilol, Volirop	CYP2D6			●
	Metoprolol	Betaloc, Lopresor, Metrol, Minax, Mistrom, Metrol-XL, Minax XL, Toprol-XL	CYP2D6			●
	Nebivolol	Nebilet, Nepiten	CYP2D6			●
	Propranolol	Deralin, Inderal	CYP1A2 CYP2D6			●
	Timolol	Timoptol-XE, Timoptol	CYP2D6			●
Calcineurin inhibitors	Tacrolimus (a.k.a FK-506)	Pacrolim, Prograf, Tacrograf, Advagraf XL	CYP3A5			●
Drugs for alcohol dependence	Naltrexone	Naltrexone, Contrave (Naltrexone + Bupropion)	OPRM1			●
Drugs for sexual dysfunction	Dapoxetine	Priligy	CYP2D6			●
Hypnotics	Melatonin	Slenyto, Circadin, Melotonin	CYP1A2	●		●
Immunomodulators and antineoplastics	Tamoxifen	Genox, Nolvadex-D, Tamosin	CYP2D6			●
	Gefitinib	Iressa	CYP2D6			●
Miscellaneous	Atazanavir	Reyataz	CYP3A5			●
	Cyclophosphamide	Cyclonex, Endoxan	CYP2C19			●
	Eliglustat	Cerdela	CYP2D6			●
	Proguanil	Atovaquone + Proguanil (Malarone, Malarone Junior, Promozio)	CYP2C19			●
Neurological drugs	Tamsulosin	Flomaxtra	CYP2D6			●
	Tetrabenazine	Tetrabenazine	CYP2D6			●
	Siponimod	Mayzent	CYP2C9			●
NSAIDs	Celecoxib	Celaxib, Celebrex, Celexi	CYP2C9	●		●
	Diclofenac	Voltaren Rapid, Difenac, Clonac, Fenac, Voltaren, Viclofen, Cambia, Dencorub Anti-inflammatory Gel, Voltaren Emulgel, Voltaren Osteo Gel 12 Hourly, Inflamax	CYP2C9	●		●
		Advil, Advil 12 Hour, Advil Liquid, Nurofen, Nurofen 12 Hour, Nurofen Double Strength, Nurofen Liquid, Brufen, Bugesic, Advil Children's, FenPaed, Advil Infant's, FenPaed Double Strength, Nurofen for Children 5–12 years, Nurofen Gel, Pedea, Caldolor		●		●
	Ibuprofen	Arthrexin, Indocid	CYP2C9	●		●
	Indomethacin (a.k.a. Indometacin)	Ponstan	CYP2C9	●		●
	Mefenamic Acid	Melobic, Meloxibell, Mobic, Moxicam	CYP2C9	●		●
	Meloxicam	Feldene-D, Mobilis D, Feldene, Mobilis	CYP2C9	●		●
	Piroxicam					
Opioid Analgesics	Codeine	Codeine Phosphate, Actacode Linctus, Codeine Linctus	CYP2D6 OPRM1	●		●
	Morphine	Seradol, Anamorph, Ordine, Morphine hydrochloride, Morphine sulfate, MS Contin, Momex SR, Kapanol, MS Mono	OPRM1	●		●
	Oxycodone	Endone, Oxycodone, Novacodone, OxyContin, OxyNorm, Proladone	CYP2D6	●		●
	Tramadol	Tramal SR, Tramedo SR, Zydol SR, Tramal, Tramedo, Zydol, Tramal Oral Drops	CYP2D6	●		●
Proton pump inhibitors	Esomeprazole	Esopeze, Nexium, Nexole, Noxicid Heartburn Relief, Noxicid, Nexium 24HR Once Daily Dosing	CYP2C19			●
	Lansoprazole	Zopral, Lanzopran, Zopral, Zopral ODT, Zoton FasTabs	CYP2C19			●
	Omeprazole	Acimax, Losec, Maxor, Omepral, Ozmep, Pemzo, Probitor, Maxor Heartburn Relief	CYP2C19			●
	Pantoprazole	Gastenz, Salpraz Heartburn Relief, Somac Heartburn Relief, Ozpan, Panthron, Somac, Sozol, Somac	CYP2C19			●
	Rabeprazole	Parbezol, Pariet, Zabep	CYP2C19			●
Psychostimulants	Dexamphetamine (a.k.a. Dexamfetamine)	Dexamfetamine	CYP2D6	●		●
	Lisdexamfetamine	Vyvanse	CYP2D6	●		●
Statins	Atorvastatin	Atorvachol, Lipitor, Lorstat, Torvastat, Trovas	CYP3A4 SLCO1B1			●
	Fluvastatin	Lescol XL	CYP2C9 SLCO1B1			●
	Pravastatin	Cholstat, Lipostat, Pravachol	SLCO1B1			●
	Rosuvastatin	Cavstat, Crestor, Crosuva	SLCO1B1			●
	Simvastatin	Zimstat, Lipex, Simvar, Zocor	CYP3A4 SLCO1B1			●

Interpreting the personalised PGx medication report

The patient's genetic results are released on a detailed report, which provides clinically relevant information about their predicted response to over 100 medications used in clinical practice.

All medications covered by this report are categorized as having **major**, **minor** or **usual** prescribing considerations based on the patient's unique PGx results.

This report provides clinically relevant information about drug metabolism and plasma concentrations (drug exposure), as well as the potential for altered clinical effects.

For each medication of interest the report offers:

- an interpretation of results
- action recommendations based on international guidelines

It is important to list on the patient's request form:

- current medications
- medications considered for the future
- past medications

For many medications covered in this report, evidence-based guidelines and drug label information are available and where relevant are referenced in this report.

■ Major prescribing considerations:

A significant effect to drug response is predicted. There may be guidelines recommending consideration be given to a change in the dose or the medication type.

MEDICATIONS WITH MAJOR PRESCRIBING CONSIDERATIONS		
Medication	Interpretation	Recommendation
Escitalopram (Antidepressants - SSRIs)	CYP2C19 - Poor metaboliser: Negligible metabolism of escitalopram by CYP2C19 and greatly increased drug exposure are predicted. This may increase the risk of adverse effects.	CPIC guidelines provide a moderate recommendation to consider a 50% dose reduction of the recommended starting dose and titrate to response.

■ Minor prescribing considerations:

Altered drug response is possible, but the clinical significance is either thought to be minor or there is insufficient data available.

MEDICATIONS WITH MINOR PRESCRIBING CONSIDERATIONS		
Medication	Interpretation	Recommendation
Ibuprofen (NSAIDs)	CYP2C9 - Intermediate metaboliser: Mildly reduced metabolism by CYP2C9 and increased drug exposure are predicted. This effect may be exacerbated by high dosages or drug-drug interactions.	CPIC guidelines have a moderate recommendation to initiate therapy with the recommended starting doses. In accordance with prescribing information, use the lowest effective dose for the shortest duration required. Monitor for adverse effects.

■ Usual prescribing considerations:

Genetic results are not predicted to affect drug response, and there are no additional prescribing considerations.

MEDICATIONS WITH USUAL PRESCRIBING CONSIDERATIONS		
Medication	Interpretation	Recommendation
Clopidogrel (Antiplatelet drugs)	CYP2C19 - Normal metaboliser: Normal formation of clopidogrel's active metabolite by CYP2C19 is predicted.	CPIC guidelines provide a strong recommendation to use the label-recommended dosage if clopidogrel is being prescribed for cardiovascular or neurovascular indications.

References:

Australian Medicines Handbook 2020 (online). Adelaide: Australian Medicines Handbook Pty Ltd; 2020 July.

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Australian Government Department of Health Therapeutic Goods Administration. Extract from the Clinical Evaluation Report for Eliglustat (as tartrate). ACT: Therapeutic Goods Administration; 2015. Available from: <https://www.tga.gov.au/sites/default/files/auspar-eliglustat-150818-cer.pdf>



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