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CLINPGx Levels of Evidence[a] for Selected[b] Medication/Gene Associations

Psychotropic Drugs	*CYP2B6*	*CYP2C9*	*CYP2C19*	*CYP2D6*	*CYP3A4*	*CYP3A5*	*UGT2B15*	*ANNK1*	*COMT*	*DRD2*	*GRIK4*	*HTR2A*	*HTR2C*	*MTHFR*	*OPRM1*
Psychostimulants (ADHD)				*					*	*					
Amphetamine										3					
Atomoxetine				1A											
MDMA	3		3												
Methylphenidate				3					3						
Methamphetamine															
Modafinil									3						
Antidepressants	*	*	*	*					*	*	*	*		*	*
Agomelatine															
Amitriptyline			1A	1A											
Bupropion	2A		3					3	3	3		3			
Citalopram			1A	3							3	3			
Clomipramine			1A	1A											
Desipramine				1A											
Doxepin		3	1A	1A											
Duloxetine															
Escitalopram			1A	3							3	3			
Fluoxetine				3							3				
Fluvoxamine				1A					3						
Imipramine			1A	1A											
Maprotiline				3											
Mianserin				3											
Milnacipran															
Mirtazapine	3			2A											
Nefazodone															
Nortriptyline				1A											
Opipramol				3											
Paroxetine				1A					3		3				
Sertraline			1A	3					3		3				
SSRIs				1A											
Trimipramine		3	1A	1A											
Venlafaxine			3	1A					3		3				

Psychotropic Drugs	CYP2B6	CYP2C9	CYP2C19	CYP2D6	CYP3A4	CYP3A5	UGT2B15	ANNK1	COMT	DRD2	GRIK4	HTR2A	HTR2C	MTHFR	OPRM1
Antipsychotics		*		*	*	*		*	*	*		*	*	*	*
Amisulpride										3					
Aripiprazole				1A				3		3					
Bromperidol										3					
Chlorpromazine															
Clozapine									3	3			3	3	
Fluphenazine															
Haloperidol				1A					3						
Nemonapride								3		3					
Olanzapine		3		3		3		3		3		3	3	3	
Prochlorperazine										3					
Quetiapine					1A	3			3						
Risperidone				1A				3	3	3		3	3		
Thioridazine				3											
Trifluoperazine															
Zuclopenthixol				1A											
Anxiolytics			*	*	*	*	*	*							*
Alprazolam					3										
Clobazam			3												
Dexmedetomidine															
Diazepam			3												
Lorazepam							3								
Midazolam					3	3									
Oxazepam							3								
Others															
Carbamazepine															
Ketamine	3														
Levodopa										3					
Lithium															
l-Methylfolate														3	
Mephenytoin			3												
Methylphenobarbital			3												
Oxcarbazepine															
Phenobarbital														3	
Phenytoin		1A	3											3	
Valproic acid		3													

[a]CLINPGxB levels of evidence range from level 1A (highest) to level 4 (lowest). Only select (typically 1A) evidence levels are associated with gene-based dosing guidelines. More details about these levels can be found at clinpgx.org/page/clinAnnLevels

[b]Table does not include all genes relevant to each drug or all drugs relevant to each gene. Table also does not consider drug-drug interactions or other nongenetic factors that influence pharmacokinetics (PK) and pharmacodynamics (PD).

**Gene variant(s) with CLINPGx levels of evidence for an entire drug class.*

Abbreviations: ADHD, attention-deficit/hyperactivity disorder; MDMA, 3,4-methylenedioxymethamphetamine; SSRI, selective serotonin reuptake inhibitors