

### The Carlat Psychiatry Report

#### CYP450 Drug Interactions for Commonly Prescribed Medications

CYP450 Family	Inducers	Inhibitors	"Victim Drugs" (Substrates)	Symptoms When Inhibited	Symptoms When Induced
1A2	Carbamazepine Cigarette smoke	Fluvoxamine Ciprofloxacin Norfloxacin Ketoconazole	Asenapine	Insomnia/EPS	Psychosis
			Caffeine	Jitteriness	Withdrawal headaches
			Clomipramine	Seizures/arrhythmia/anticholinergic effects	Depression
			Clozapine	Seizures/sedation/anticholinergic effects	Psychosis
			Duloxetine	Increased blood pressure	Depression
			Mirtazapine	Somnolence	Depression
2C9/19	Ginkgo biloba	Fluoxetine Fluvoxamine Carbamazepine Modafanil Oxcarbazepine Valproate Fluconazole	Diazepam	Intoxication	Anxiety/seizures
			Tricyclics	Seizures/arrhythmia/anticholinergic	Depression
			Oral hypoglycemics	Hypoglycemia	Diabetes complications
			Warfarin	Hemorrhage	Pulmonary embolism/MI/stroke
2D6	None	Bupropion Fluoxetine Fluvoxamine Paroxetine Quinidine	Aripiprazole	EPS/akathisia/dystonia	Psychosis
			Duloxetine	Increased blood pressure	Depression
			Mirtazapine	Somnolence	Depression/insomnia
			lloperidone	Tachycardia/hypotension/stiffness	Psychosis
			Tricyclics	Seizures/arrhythmia/anticholinergic	Depression
			Venlafaxine	Increased blood pressure	Depression
			Beta blockers	Hypotension	Hypertension
			Codeine/tramadol/hydrocodone	Less/no analgesia	Somnolence
3A4	Phenytoin Carbamazepine Oxcarbazepine Phenobarbital Ginkgo biloba St. John's Wort	Nefazodone Grapefruit juice Protease inhibitors Ketoconazole Clarithromycin	Alprazolam	Sedation/intoxication	Panic/anxiety
			Aripiprazole	EPS/akathisia/dystonia	Psychosis
			Buspirone	Nausea/vomiting/dizziness/sedation	Anxiety
			Carbamazepine	Sedation/arrhythmia	Seizures
			Diazepam	Sedation/intoxication	Anxiety
			Quetiapine	Sedation	Psychosis
			Methadone	Sedation	Opiate withdrawal
			Oral contraceptives	GI upset	Pregnancy
			Calcium channel blockers	Hypotension	Hypertension
			Statins (not pravastatin)	Rhabdomyolysis	Hyperlipidemia

Source: TCPR, February 2011, Vol 9, Issue 2, Drug-Drug Interactions