

**PSYCHOTROPIC DRUGS:  
SEDATIVES/HYPNOTICS, ANTIDEPRESSANTS, AND ANTIPSYCHOTICS**

	INSTIs		NNRTIs		PIs	RTI	
	<ul style="list-style-type: none"> <li>• BICTEGRAVIR (<i>Biktarvy</i>)</li> <li>• DOLUTEGRAVIR (<i>Tivicay, Triumeq, Juluca</i>)</li> <li>• RALTEGRAVIR (<i>Isentress</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• ELVITEGRAVIR/COBICISTAT (<i>Stribild, Genvoya</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• DORAVIRINE (<i>Pifeltro, Delstrigo</i>)</li> <li>• RILPIVIRINE (<i>Edurant, Complera, Odefsey, Juluca</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• EFAVIRENZ (<i>Sustiva, Atripla</i>)</li> <li>• ETRAVIRINE (<i>Intelligence</i>)</li> <li>• NEVIRAPINE (<i>Viramune</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• ATAZANAVIR (<i>Reyataz/Norvir, Evotaz</i>)</li> <li>• DARUNAVIR (<i>Prezista/Norvir, Prezcofix, Symtuza</i>)</li> <li>• LOPINAVIR (<i>Kaletra</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• TENOFOVIR ALAFENAMIDE, TAF (<i>Descovy, Biktarvy, Genvoya, Odefsey, Symtuza</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• TENOFOVIR DISOPROXIL, TDF (<i>Viread, Truvada, Atripla, Complera, Delstrigo, Stribild</i>)</li> <li>• ABACAVIR (<i>Kivexa, Ziagen, Triumeq</i>)</li> </ul>

**SEDATIVES/HYPNOTICS**

<ul style="list-style-type: none"> <li>• Lorazepam, oxazepam, temazepam</li> </ul>							
<ul style="list-style-type: none"> <li>• Alprazolam, bromazepam, buspirone, clonazepam, estazolam, flurazepam, diazepam, nitrazepam, zolpidem, zopiclone</li> </ul>		Potential for ↑ benzodiazepine		Potential for ↓ benzodiazepine	Potential for ↑ benzodiazepine		
<ul style="list-style-type: none"> <li>• Midazolam, triazolam</li> </ul>		Potential for ↑ benzodiazepine		Potential for ↓ benzodiazepine	Potential for ↑ benzodiazepine		

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### ANTIDEPRESSANTS

• Most TCAs, duloxetine							
• Bupropion				Etravirine may be used without dose adjustment	Cobicistat-boosted PIs: may be used without dose adjustment		
				Potential for ↓ bupropion (efavirenz, nevirapine)	Ritonavir-boosted PIs: potential for ↓ bupropion		
• St. John's wort	raltegravir ↑ dolutegravir 50 mg BID bictegravir	Potential for ↓ elvitegravir and TAF	Potential for ↓ NNRTIs *including Juluca	Potential for ↓ NNRTIs	Potential for ↓ PIs	Potential for ↓ TAF	
• Most SSRIs (citalopram, escitalopram,		Potential for ↑ antidepressant		Potential for ↓ antidepressant	Potential for ↑ antidepressant		

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fluoxetine, sertraline), venlafaxine, desvenlafaxine, trazodone, reboxetine, mirtazapine							

### ANTIPSYCHOTICS

<ul style="list-style-type: none"> <li>• Aripiprazole, lurasidone, modafinil, quetiapine, pimozide, paliperidone, risperidone, ziprasidone</li> </ul>		Potential for ↑ antipsychotic  Lurasidone & pimozide are contraindicated		Potential for ↓ antipsychotic	Potential for ↑ antipsychotic  Lurasidone & pimozide are contraindicated		
<ul style="list-style-type: none"> <li>• Clozapine, olanzapine</li> </ul>		Potential for ↑ antipsychotic		Potential for ↓ antipsychotic	Cobicistat-boosted PIs: potential for ↑ antipsychotic Ritonavir-boosted PIs: potential for ↓		

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					olanzapine and ↑/↓ clozapine		
• Modafinil	Dolutegravir, raltegravir Potential for ↓ bictegravir	Potential for ↓ elvitegravir	Potential for ↓ NNRTI	Potential for ↓ NNRTI	Potential for ↓ PIs	Potential for ↓ TAF	

Legend:



No dose adjustment required.



Use combination with caution. Adjustment in drug dose or frequency or additional/more frequent monitoring may be required. May wish to consult with a pharmacist knowledgeable in HIV drug interactions.



Contraindicated/avoid combination.

## Mechanism of Drug Interactions, Management and Monitoring

Class	Mechanism of Interaction	Main Interacting ARVs	Management	Monitoring
<b>Benzodiazepines</b>	Inhibition of CYP3A4 (midazolam, triazolam)	Ritonavir and cobicistat-boosted protease inhibitors and elvitegravir	Contraindicated. Use alternate benzodiazepine.	
	Inhibition of mixed CYP (Alprazolam, bromazepam, buspirone, clonazepam, estazolam, eszopiclone, flurazepam, diazepam, nitrazepam, zolpidem, zopiclone)	Ritonavir and cobicistat-boosted protease inhibitors and elvitegravir.	Adjust benzodiazepine dose according to response/toxicity. Other benzodiazepines may be used without dose adjustment.	Benzodiazepine toxicity: ataxia, dizziness, drowsiness, fatigue, muscle weakness, slowed reaction
	Lorazepam, oxazepam, temazepam	May be used with all ARVs	May use without dose adjustment	
<b>Antidepressants</b>	Inhibition of mixed CYP pathways (citalopram, escitalopram, fluoxetine, sertraline, venlafaxine, desvenlafaxine, trazodone, mirtazapine)	Ritonavir and cobicistat-boosted protease inhibitors and elvitegravir	Adjust antidepressant dose according to response/toxicity. Other antidepressants may be used without dose adjustment.	Antidepressant toxicity: anticholinergic effects, orthostatic hypotension, tachycardia, agitation, headache, somnolence, dizziness, diarrhea, excessive sweating, weight gain.
	Induction of mixed CYP pathways (fluoxetine, sertraline, trazodone, reboxetine, mirtazapine)	Efavirenz, etravirine, nevirapine	Adjust antidepressant dose according to response. Other antidepressants may be used without dose adjustment.	Antidepressant efficacy
	Induction of CYP2B6 (Bupropion)	Ritonavir-boosted protease inhibitors, efavirenz, nevirapine	Adjust antidepressant dose according to response (maximum 300 mg daily).	Antidepressant efficacy
	Induction of CYP3A4 (St. John's wort)	Dolutegravir, Bictegravir, elvitegravir/cobicistat, all PIs and NNRTIs and Tenofovir Alafenamide	Contraindicated with most antiretrovirals	

<b>Class</b>	<b>Mechanism of Interaction</b>	<b>Main Interacting ARVs</b>	<b>Management</b>	<b>Monitoring</b>
<b>Antipsychotics</b>	Inhibition of mixed CYP pathways (aripiprazole, buspirone, lurasidone, modafinil, quetiapine, pimozide, paliperidone, risperidone, ziprasidone)	Ritonavir and cobicistat-boosted protease inhibitors and elvitegravir	Adjust antipsychotic dose according to response/toxicity.	Antipsychotic toxicity: somnolence, sweating, chest pain, tachycardia, dizziness, insomnia, headache, nausea, diarrhea, dry mouth, numbness, weight gain
	Induction of mixed CYP pathways (aripiprazole, buspirone, lurasidone, modafinil, quetiapine, pimozide, paliperidone, risperidone, ziprasidone)	Efavirenz, etravirine, nevirapine	Adjust antipsychotic dose according to response	Antipsychotic efficacy
	Induction of CYP1A2 (Clozapine, olanzapine)	Ritonavir-boosted protease inhibitors	Adjust antipsychotic dose according to response.	Antipsychotic efficacy
<b>Modafinil</b>	Induction of CYP3A4	Most ARVs except for dolutegravir, raltegravir, TDF and abacavir.	Consider non-interacting ARV regimen if possible.	Antiretroviral efficacy

A MANAGEMENT TOOL FOR **HIV** DRUG-DRUG INTERACTIONS

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