

Antiretrovirals and Recreational Drugs

Charts reviewed October 2018. Full information available at www.hiv-druginteractions.org

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Г	1	ATV/r	DRV/r	LPV/r	EFV	ETV	NVP	RPV	MVC	DTG	RAL	ABC	FTC	3ТС	TDF	ZDV	E/C/F/TAF	E/C/F/TDF
	Cocaine	↑ab	↑a		↑°	↑°	↑°	↔b		↔	KAL ↔	↔	↔	↔		↔	↑ ^a	↑ ^a
		-	'	1	1-	1-	11-	↔-	\leftrightarrow	↔	\leftrightarrow	↔	↔	↔	\leftrightarrow	↔	'	
Stimulants	Ecstasy (MDMA)	↑ ^d	↑d	↑ ^d	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ^d	↑ ^d
	Mephedrone	↑ ^e	↑ ^e	↑ ^e	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ^e	↑ ^e
	Methamphetamine	1	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	1
	Poppers (Amyl nitrate)	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Alcohol	\leftrightarrow	\leftrightarrow	\leftrightarrow^{f}		\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Alprazolam	↑ ^g	↑g	↑ ^g	↓	↓	1	\leftrightarrow	1	1								
	Codeine	↑i	↑i	↑i	J ⁱ	↓ ⁱ	↓i	\leftrightarrow	↑i	↑i								
	Diazepam	1	1	1	→	1	↓	\leftrightarrow	1	1								
	GHB (gamma hydroxybutyrate)	↑ ^j	↑ ^j	↑ ^j	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ^j	↑ ^j
	Heroin (Diamorphine)	↓ ^k	↓ ^k	↓ ^k	1	\leftrightarrow^{k}	\leftrightarrow	\leftrightarrow^{k}	\leftrightarrow^{k}									
छ	Hydrocodone	1	1	1	↓	\downarrow	↓	\leftrightarrow	1	1								
san	Hydromorphone	↓	↓			\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Depressants	Ketamine	1	1	1	↓	↓	↓	\leftrightarrow	1	1								
ă	Methadone	↑p	↓16%	↓53%b	↓52%	↑6%	↓~50%	↓16%b	\leftrightarrow	\leftrightarrow	\leftrightarrow	↓	\leftrightarrow	\leftrightarrow	\leftrightarrow	ſ	↑7%	↑7%
	Midazolam (oral)	↑ ^m	↑ ^m	↑ ^m	↓h	↓	\	\leftrightarrow	↑ ^m	↑ ^m								
	Morphine	↓ ⁿ	↓n	↓ ⁿ	1	$\leftrightarrow^{\textbf{n}}$	\leftrightarrow	\leftrightarrow	\leftrightarrow		\leftrightarrow		\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	$\leftrightarrow^{\mathbf{n}}$	$\leftrightarrow^{\textbf{n}}$
	Oxycodone	1	1	1	↓	↓	↓	\leftrightarrow	1	1								
	Pethidine (Meperidine)	\downarrow ¹	\downarrow 1	↓¹	\downarrow_1	J¹	↓¹	\leftrightarrow	1	1								
	Temazepam	\leftrightarrow	\leftrightarrow	\leftrightarrow			\leftrightarrow	\leftrightarrow	\leftrightarrow		\leftrightarrow		\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Triazolam	↑ ^m	↑ ^m	↑ ^m	↓h	↓	\	\leftrightarrow	↑ ^m	↑ ^m								
iens	Cannabis	↑°↓	↑°	↑°	↑p	↑p	\leftrightarrow	↑°	↑°									
Hallucinogens	LSD (Lysergic acid diethylamide)	↑q	↑ª	↑q	\	↓	1	\leftrightarrow	↑ª	↑q								
Hallu	Phencyclidine (PCP, angel dust)	↑r	↑r	↑r	↓	↓	1	\leftrightarrow	↑r	↑r								

Colour Legend

No clinically significant interaction expected.

These drugs should not be coadministered.

Potential interaction which may require a dosage adjustment or close monitoring.

Potential interaction predicted to be of weak intensity. Additional action/monitoring or dosage adjustment is unlikely to be required.

Text Legend

- ↑ Potential increased exposure of the recreational drug
- Potential increased exposure of HIV drug
- Potential decreased exposure of the recreational drug
- Potential decreased exposure of HIV drug

→ No significant effect

Numbers refer to increased or decreased AUC of the recreational drug as observed in drug-drug interaction studies.

- a Clinical relevance unknown as cocaine is metabolized by other non-CYP mediated pathways. Ensure patient is aware of signs/symptoms of cocaine toxicity (tremor, seizures, anxiety, headache, increased body temperature).
- b Risk of QT interval prolongation.
- Concentrations of hepatotoxic metabolite increased.
- d Ensure patient is aware of signs/symptoms of ecstasy toxicity (increased body temperature, dehydration, dry mouth, tense jaw, teeth grinding).
- e Ensure patient is aware of signs/symptoms of mephedrone toxicity (agitation, tachycardia, hypertension).
- f Not recommended with oral solution due to large amount of propylene glycol in the solution which may compete with alcohol elimination.
- g Initial inhibitory effect followed by induction in presence of ritonavir.
- h Contraindicated by manufacturer
- i Potential opiate withdrawal due to reduced conversion to morphine.
- Ensure patient is aware of signs/symptoms of GHB toxicity (myoclonic or seizure activity, bradycardia, respiratory depression, loss of consciousness).
- k Heroin is rapidly deacetylated to 6-monoacetylmorphine (6-MAM) by plasma esterases and subsequently to morphine by liver esterases. 6-MAM enters the brain at a much faster rate than morphine and has been correlated to the acute effects of heroin. Pls/EFV are unlikely to alter 6-MAM concentrations but may alter morphine concentrations. Also Pls, ETV, EVG/c could increase the amount of morphine entering the brain (via P-gp inhibition) and thus potentiate the effects of opiate in the CNS.
- I Concentrations of neurotoxic metabolite increased.
- m Increased sedation or respiratory depression.
- n Amount of morphine entering the CNS may be increased due to inhibition of P-gp and thus potentiate the effects of opiate in the CNS
- o Concentrations of tetrahydrocannabinol (THC, the psychoactive component of cannabis) could be increased, although to a modest extent.
- Concentrations of tetrahydrocannabinol (THC, the psychoactive component of cannabis) could be increased.
- q Ensure patient is aware of signs/symptoms of LSD toxicity (hallucination, agitation, psychosis, flashbacks).
- r Ensure patient is aware of signs/symptoms of PCP toxicity (seizure, hypertension, increased body temperature).

bbreviations ATV atazanavir DRV darunavir LPV lopinavir /r ritonavir EFV efavirenz ETV etravirine NVP nevirapine RPV rilpivirine MVC maraviroc DTG dolutegravir RAL raltegravi ABC abacavir FTC emtricitabine 3TC lamivudine TDF tenofovir disoproxil fumarate ZDV zidovudine E/C/F/ Elvitegravir/Cobioistat/FTC TAF tenofovir alafenamide