RECREATIONAL DRUGS:

AMYL NITRATE, AMPHETAMINES, CANNABIS, COCAINE/CRACK, GHB, HALLUCINOGENS, KETAMINE, HEROIN, NALOXONE

	INSTIs		NNRTIs		Pls	
	 BICTEGRAVIR (Biktarvy) DOLUTEGRAVIR (Tivicay, Triumeq, Juluca) RALTEGRAVIR (Isentress) 	• ELVITEGRAVIR/ COBICISTAT (Stribild, Genvoya)	Delstrigo) • RILPIVIRINE (Edurant,	 EFAVIRENZ (Sustiva, Atripla) ETRAVIRINE (Intelence) NEVIRAPINE (Viramune) 	Boosted with ritonavir (Norvir) or cobicistat • ATAZANAVIR (Reyataz, Evotaz) • DARUNAVIR (Prezista, Prezcobix, Symtuza) • LOPINAVIR (Kaletra)	
AMYL NITRATE						
• Poppers, ames						
AMPHETAMINES						
 MDMA/ecstasy, crystal, molly 		Potential for ↑ recreational drug			Potential for † recreations drug	
CANNABIS (THC), CA	.NNABIDIOL (CBD) *Note	that oral cannabis oils or o	dried cannabis may include	THC/CBD in various ratios		
• Marijuana, weed		Potential for ↑ THC & CBD		Potential for ↑ THC and ↓ CBD	Potential for ↑ THC Potential for ↑/↓ CBD	
COCAINE						
• crack, base		Potential for ↑ recreational drug	Potential QT prolongation (rilpivirine)	Potential for ↑ levels of hepatotoxic metabolite	Potential for ↑ recreationadrug	
GAMMA-HYDROXYE	BUTYRATE					
• GHB, date rape drug, Geeb, liquid X		Potential for ↑ recreational drug			Potential for ↑ recreationadrug	

	INSTIs		N	NNRTIs	
	 BICTEGRAVIR (Biktarvy) DOLUTEGRAVIR (Tivicay, Triumeq, Juluca) RALTEGRAVIR (Isentress) 	• ELVITEGRAVIR/ COBICISTAT (Stribild, Genvoya)	 DORAVIRINE (Pifeltro, Delstrigo) RILPIVIRINE (Edurant, Complera, Odefsey, Juluca) 	 EFAVIRENZ (Sustiva, Atripla) ETRAVIRINE (Intelence) NEVIRAPINE (Viramune) 	Boosted with ritonavir (Norvir) or cobicistat • ATAZANAVIR (Reyataz, Evotaz) • DARUNAVIR (Prezista, Prezcobix, Symtuza) • LOPINAVIR (Kaletra)
HALLUCINOGENS					
LSD, acidPCP, angel dust		Potential for ↑ recreational drug		Potential for ↓ recreational drug	Potential for ↑ recreationa drug
KETAMINE					
• Special K, vitamin K, KitKat		Potential for ↑ recreational drug		Potential for ↓ recreational drug	Potential for ↑ recreationa drug
HEROIN					
• Smack, H, tar, junk		Potential for ↑ recreational drug		Potential for ↓ morphine (converted from heroin) with efavirenz	Potential for ↑ recreationa drug
NALOXONE					
• Narcan					Ritonavir-boosted PIs: potential for ↓ naloxone
					Cobicistat-boosted PIs
Legend:	No dose adjustment required Use combination with cautior consult with a pharmacist kno Contraindicated/avoid combin	n. Adjustment in drug dose owledgeable in HIV drug inte		re frequent monitoring may be	required. May wish to

Mechanism of Drug Interactions, Management and Monitoring

Class	Mechanism of Interaction	Main Interacting ARVs	Management	Monitoring
Cannabidiol (CBD)	Substrate of CYP3A4, 2C19;	Cobicistat-boosted	Warn patient of potential for	Toxicity: CNS effects
	inhibits CYP2C19	elvitegravir and PIs may	increased or decreased CBD	(sedation, confusion,
		increase CBD. Ritonavir-	levels; CBD dose may need	impairment), heart rate,
		boosted PIs may increase or	to be titrated.	blood pressure.
		decrease CBD. Enzyme		
		inducing NNRTIs (efavirenz,		
		etravirine, nevirapine) may		
		decrease CBD levels.		
Cannabis (THC)	Substrate of CYP2C9>3A4	Protease Inhibitors (PI) (with	Warn patient of potential for	Toxicity: as above.
		ritonavir or cobicistat),	increased THC levels; THC	
		elvitegravir/cobicistat,	dose may need to be	
		etravirine and efavirenz may	titrated.	
		increase THC levels.		
Stimulants:	Inhibition of CYP3A4	Protease Inhibitors (PI) (with	Warn patient of potential for	Toxicity:
Cocaine, amphetamines	(cocaine) and CYP 2D6	ritonavir or cobicistat) &	unpredictable increased	Dehydration, dry mouth,
	(amphetamines, GHB?)	Elvitegravir/cobicistat	levels of the recreational	teeth grinding, tense jaw,
GHB	leading to increased levels of		substance and provide harm	tachycardia.
	stimulant		reduction advice	GHB: seizures, bradycardia,
				loss or consciousness
Hallucinogens:	Mechanism unclear but	PIs & elvitegravir/cobicistat	Warn patient of	Toxicity:
LSD, PCP (angel dust)	potential for inhibition or	may increase hallucinogen	unpredictable increased	Hallucinations, psychosis,
	induction of drug	concentrations	levels of hallucinogen and	flashbacks, seizures,
	metabolism	Enzme inducing NNRTIs	provide harm reduction	hypertension.
		(efavirenz, etravirine,	advice	
		nevirapine) may decrease		
		levels		
Ketamine	Mechanism unclear but	PIs & elvitegravir/cobicistat	Warn patient of	Toxicity:
	potential for inhibition or	may increase ketamine	unpredictable increased	Nausea, vomiting, SOB, loss
	induction of drug	Enzyme inducing NNRTIs	levels and provide harm	of coordination, cognitive
	metabolism	(efavirenz, etravirine,	reduction advice	decline
		nevirapine) may decrease		
		levels		

Class	Mechanism of Interaction	Main Interacting ARVs	Management	Monitoring
Heroin	Converted to morphine, which is glucuronidated (UGT2B7>UGT1A1) and a substrate of Pgp	PIs & elvitegravir/cobicistat may increase morphine Efavirenz may induce UGT and decrease morphine	Warn patient of unpredictable increased levels and provide harm reduction advice	Toxicity: decreased level of consciousness, miosis, respiratory depression. Acute symptoms may be reversed with naloxone.
Naloxone	Substrate of UGT2B7	Ritonavir-boosted PIs may induce UGT and decrease naloxone	Potential for decreased duration of naloxone efficacy	Monitor for duration of naloxone efficacy.