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DAAs and Recreational Drugs

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-		DOV	500/070			ODV/DTV/-		0141/	0.05	0054/51	
⊢		DCV	EBR/GZR	GLP/PIB	LED/SOF		OBV/PTV/r +DSV	SMV	SOF	SOF/VEL	SOF/VEL/VOX
	Buprenorphine	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑	↑
	Naloxone	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Amphetamine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ª	↑ ^a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
ants	Cocaine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ^b	↑ ^b	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
nula	Ecstasy (MDMA)	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow c	↔ °	\leftrightarrow	\$	\leftrightarrow	\leftrightarrow
Stil	Mephedrone	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	$\leftrightarrow q$	\leftrightarrow^{d}	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Methamphetamine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow ^a	↔ ^a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Alprazolam	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	↑ 34%	↑	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Codeine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ^e	↑ ^e	↑	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Diazepam	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	Ļ	↓ 22%	↑	\leftrightarrow	\leftrightarrow	\leftrightarrow
	GHB (Gamma-hydroxybutyrate)	\leftrightarrow	\leftrightarrow^{f}	\leftrightarrow^{f}	\leftrightarrow	↑	↑	¢	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Heroin (Diamorphine)	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
s	Hydrocodone	\leftrightarrow	\leftrightarrow	↑	\leftrightarrow	↑	↑	↑↓ ^g	\leftrightarrow	\leftrightarrow	\leftrightarrow
ant	Hydromorphone	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	↑	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
epressants	Ketamine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ^h	↑ ^h	↑ ^h	\leftrightarrow	\leftrightarrow	\leftrightarrow
epr	Methadone	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Midazolam (oral)	\leftrightarrow	↑ ⁱ	\leftrightarrow	, t	↑	↑	↑ 45%	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Morphine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑	↑	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Oxycodone	\leftrightarrow	↑	↑	\leftrightarrow	↑	↑	↑	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Pethidine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Temazepam	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
	Triazolam	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow			↑	\leftrightarrow	\leftrightarrow	\leftrightarrow
en	Cannabis	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ^k	↑ ^k	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
lainog	LSD (Lysergic acid diethylamide)	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ¹	↑ ^I	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Hall	Phencyclidine (PCP, angel dust)	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ^m	↑ ^m	↑ ^m	\leftrightarrow	\leftrightarrow	\leftrightarrow

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.

Text Legend

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- Potential increased exposure of the recreational drug î Potential decreased exposure of the recreational drug
- Potential increased exposure of HCV DAA
- 1L Potential decreased exposure of HCV DAA

No significant effect \leftrightarrow

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

Caution is advised as dosing of recreational drugs can be variable. а

Significance of any potential increase is unknown. Ensure the patient is aware of signs/symptoms of cocaine toxicity (tremor, seizures, anxiety, headache, increased body temperature). b

- Caution is advised as there have been fatalities reported in subjects taking ritonavir-boosted HIV protease inhibitors and ecstasy. Ensure patient is aware of signs/symptoms of ecstasy c toxicity (increased body temperature, dehydration, dry mouth, tense jaw, teeth grinding).
- Caution is advised as dosing of recreational drugs can be variable. Ensure the patient is aware of signs/symptoms of mephedrone toxicity (i.e., agitation, tachycardia, hypertension). d
- Potential opiate withdrawal and reduction of analgesic efficacy due to inhibition of conversion of codeine to morphine. e
- Caution is warranted with GHB due to its narrow therapeutic index. Ensure the patient is aware of signs/symptoms of GHB toxicity (myoclonic or seizure activity, bradycardia, respiratory f depression, loss of consciousness).
- Coadministration may increase hydrocodone concentrations but decrease concentrations of norhydrocodone, both of which have analgesic effects. The clinical significance of this is g unclear. Close monitoring of the analgesic effect and for signs of opiate toxicity is recommended.
- h Ensure the patient is aware of signs of ketamine toxicity such as respiratory depression, loss of consciousness, hallucinations.
- The European Summary of Product Characteristics for elbasvir/grazoprevir (but not the US Prescribing Information) states that no dose adjustment is required.
- A pharmacokinetic interaction is unlikely, however, caution is warranted with oral midazolam due to its narrow therapeutic index. i
- Coadministration may increase concentrations of THC (the psychoactive component of cannabis). The patient should be made aware of potential increased side effects. k
- Coadministration could potentially increase LSD concentrations. Ensure the patient is aware of signs/symptoms of LSD toxicity (i.e. hallucinations, agitation, psychosis, flashbacks).
- m Ensure the patient is aware of signs/symptoms of PCP toxicity (seizure, hypertension, increased body temperature).

Abbreviations:

DCV Daclatasvir SMV Simeprevir

EBR/GZR Elbasvir/Grazoprevir SOF Sofosbuvir

GLP/PIB Glecaprevir/Pibrentasvir VEL Velpatasvi

LED Ledipasvir VOX Voxilaprevir

OBV/PTV/r +DSV Ombitasvir/Paritaprevir/Ritonavir +Dasabuvir

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