clinical cases DDIs

Date of report 22 Jun 2020

# Reported case interaction between **Cobicistat** and **Alprazolam**

## Drugs suspected to be involved in the DDI

Perpetrator
**Cobicistat**

Daily Dose
150 (mg)

Dose adjustment performed
No

Administration Route
Oral

Start date
Nov. 14, 2018

End date
Ongoing

Victim
**Alprazolam**

Daily Dose
1.5 (mg)

Dose adjustment performed
Yes

Administration Route
Oral

Start date
Sept. 17, 2019

End date
Ongoing

## Complete list of drugs taken by the patient

Antiretroviral treatment

Darunavir/Cobicistat
Efavirenz/Emtricitabine/Tenofovir-DF

Complete list of all comedications taken by the patient, included that involved in the DDI

Alprazolam

## Clinical case description

Gender

Male

Age

27

eGFR (mL/min)

>60

Liver function impairment

No

Description

27 year-old, MSM. HIV infection diagnosed in 2014. Currently on cART with darunavir/cobicistat plus emtricitabine/tenofovir. Last HIV RNA pVL 20 copies/ml in October 2019. The patient uses different substances including mephedrone, alcohol and poppers occasionally. In September 2019 he had panic attach. He was admitted at the psychiatric clinic and alprazolam tablets 0.5 mg 3 times daily were prescribed. A few weeks later he felt with no energy, sedated and he referred having problems with movement and memory, which again affected his work. Alprazolam dose was reduced to 0.25 mg 3 times per day, and the patient was discouraged for drinking alcohol. Soon after, the patient did not complain about any side effect of alprazolam and he was able to work normally.

## Clinical Outcome

## Toxicity

## Drug Interaction Probability Scale (DIPS)

Score

**4 - Possible**

## Editorial Comment

Alprazolam is mainly metabolized by CYP3A4. Coadministration of darunavir/cobicistat may increase alprazolam concentrations and may result in enhanced sedation. As in this case, decrease in alprazolam dose may be needed.

## University of Liverpool Recommendation

■ Potential interaction - may require close monitoring, alteration of drug dosage or timing of administration

For more information click here