clinical cases DDIs

Date of report 10 Feb 2020

Reported case interaction between **Darunavir** and **Carbamazepine**

Drugs suspected to be involved in the DDI

Victim
Darunavir

Daily Dose
800 (mg)

Dose adjustment performed
No

Administration Route
Oral

Start date
March 22, 2019

End date
Ongoing

Perpetrator
Carbamazepine

Daily Dose
200 (mg)

Dose adjustment performed
No

Administration Route
Oral

Start date
Aug. 13, 2019

End date
Oct. 21, 2019

Complete list of drugs taken by the patient

Antiretroviral treatment

Darunavir/Cobicistat/Emtricitabine/Tenofovir-AF

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

lormetazepam 2mg

Clinical case description

Gender

Female

Age

52

eGFR (mL/min)

>60

Liver function impairment

No

Description

52 years-old woman, consumer of alcohol with HIV infection since 2014 and 2 previous episodes of treatment abandonment (previously treated with non-nucleoside analogues and protease inhibitors). In March of 2019, she came to our unit and started treatment with DRV/c/FTC/TAF. Several months after achieving undetectability, the patient had an HIV viral load of 420 copies/ml in October 2019. The patient recognized that she had started treatment for alcohol abstinence in a specialized center where carbamazepine had been prescribed. In our Unit, carbamazepine was stopped, and one month later the patient was undetectable again.

Clinical Outcome

Loss of efficacy

Drug Interaction Probability Scale (DIPS)

Score

4 - Possible

Editorial Comment

Coadministration is contraindicated due to the potential for loss of therapeutic effect and eventual development of resistance. Based on theoretical considerations carbamazepine is expected to decrease darunavir and/or cobicistat and/or tenofovir alafenamide plasma concentrations (CYP3A and/or P-gp induction). Symtuza Summary of Product Characteristics Janssen-Cilag Ltd, July 2018.

University of Liverpool Recommendation

- These drugs should not be coadministered

For more information click here