clinical cases DDIs

Date of report 28 Jul 2020

Reported case interaction between **Dolutegravir** and **Apixaban**

Drugs suspected to be involved in the DDI

Perpetrator
Dolutegravir

Daily Dose
50 (mg)

Dose adjustment performed
No

Administration Route
Oral

Start date
Jan. 10, 2018

End date
Ongoing

Victim
Apixaban

Daily Dose
10 (mg)

Dose adjustment performed
No

Administration Route
Oral

Start date
Jan. 10, 2018

End date
Ongoing

Complete list of drugs taken by the patient

Antiretroviral treatment

Emtricitabine/Tenofovir-AF
Dolutegravir

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

Apixaban, lanzoprazole, aspirin, finasteride, pravastatin, tamsulosin

Clinical case description

Gender

Male

Age

80

eGFR (mL/min)

>60

Liver function impairment

No

Description

This patient is a person living with HIV/HBV since 1995. He was on treatment with darunavir/ritonavir and lamivudine until he suffered from unstable angina and underwent coronary artery bypass surgery in 2016, complicated with acute myocardial infarction and atrial fibrillation. His treatment was then switched to tenofovir alafenamide/ emtricitabine, and dolutegravir and apixaban was maintained. No recurrence in AMI nor new ischemic stroke was observed. No major bleeding occurred in the follow up (last visit December 2019).

Clinical Outcome

No unwanted outcome

Editorial Comment

Based on metabolism and clearance a clinically significant interaction is unlikely. Apixaban is metabolized by CYP3A4 and to a lesser extent CYP1A2, CYP2C8, CYP2C9 and CYP2C19, but dolutegravir is mainly metabolized by UGT1A1.

University of Liverpool Recommendation

- No clinically significant interaction expected

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