clinical cases DDIs

Date of report 20 Jul 2020

Reported case interaction between **Cobicistat** and **Paliperidone**

Drugs suspected to be involved in the DDI

Perpetrator
Cobicistat

Daily Dose
150 (mg)

Dose adjustment performed
No

Administration Route
Oral

Start date
June 22, 2020

End date
Ongoing

Victim
Paliperidone

Daily Dose
6 (mg)

Dose adjustment performed
No

Administration Route
Oral

Start date
June 23, 2020

End date
Ongoing

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

Paliperidone, TMP-SMX prophylaxis, Olanzapine, Liposomal doxorubicin, Fluconazole

Clinical case description

Gender

Male

Age

60

eGFR (mL/min)

>60

Liver function impairment

No

Description

60 year-old male patient, recently diagnosed of HIV infection due to cutaneous and visceral (digestive, ocular, laryngeal and bronchial) Kaposi sarcoma (KS). Past clinical history was relevant for schizophrenia with poor adherence to psychiatric oral medication. He started on ART (DRV/c/FTC-TAF) in the frame of a clinical trial and received liposomal doxorubicin for KS and oral olanzapine and paliperidone for his psychiatric condition. Tolerance and response were very good, not presenting adverse events and not requiring dose adjustments (he was treated during hospitalization with a paliperidone dose of 6mg/d). Given the good tolerance presented and his past bad adherence to oral therapy in the past, IM paliperidone wasconsidered to be continued after discharge. He also received fluconazole due to oral

candidiasis. Clinical response was good for all the clinical conditions.

Clinical Outcome

No unwanted outcome

Editorial Comment

Paliperidone is primarily eliminated renally, with minimal metabolism occurring via CYP2D6 and CYP3A4. Darunavir/ cobicistat could potentially increase paliperidone concentrations by inhibiting CYP3A4, although to a limited extent. Usual dose for paliperidone in this indication ranges between 3-12 mg/d, and the patient received 6mg/d, as explained. The lack of negative clinical outcome and the favourable clinical response seen in this patient suggest that full dose of paliperidone can be used safely with darunavir/ cobicistat

University of Liverpool Recommendation

⚠ Potential interaction likely to be of weak intensity. Additional action/monitoring or dosage adjustment is unlikely to be required

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