clinical cases DDIs

Date of report 16 May 2019

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
March 28, 2019

End date
Ongoing

Victim
Paliperidone

Daily Dose
50 (mg)

Dose adjustment performed
No

Administration Route
Intramuscular

Start date
March 29, 2019

End date
Ongoing

Complete list of drugs taken by the patient

Antiretroviral treatment

Darunavir/Cobicistat
Rilpivirine/Emtricitabine/Tenofovir-AF

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

paliperidone, valproic acid, cyanocobalamin, lorazepam, estradiol

Clinical case description

Gender

Transgender

Age

38

eGFR (mL/min)

>60

Liver function impairment

No

Description

38 year-old transgender woman with diagnosis of maniac-depressive syndrome. HIV infection diagnosed in 2008. cART was started in April 2011 in context of cerebral toxoplasmosis. She had a new maniac episode requiring hospital admission, and she received therapy with paliperidone (loading doses of 150 and 100 mg IM, followed by a maintenance dose of 50 mg IM). A new cART regimen was started and, given prior history of multiple virological failures and ARV resistance, a PI/c was required. She initiated tenofovir alafenamide, emtricitabine, darunavir cobicistat and rilpivirine. Although darunavir/cobicistat could potentially increase paliperidone levels. No unwanted outcome was observed.

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 . Despite loading doses of paliperidone in this case, no negative clinical outcome was observed and clinical response was appropriate and fast, suggesting that full dose of this drug can be used safely.

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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