

Date of report 06 Feb 2020

Reported case interaction between Raltegravir and Rifampin

Drugs suspected to be involved in the DDI

Victim

Raltegravir

Dose adjustment performed

No

Start date

Dec. 9, 2018

Daily Dose

800 (mg)

Administration Route

Oral

End date

Ongoing

Perpetrator

Rifampin

Dose adjustment performed

No

Start date

April 9, 2019

Daily Dose

750 (mg)

Administration Route

Oral

End date

Dec. 15, 2019

Complete list of drugs taken by the patient

Antiretroviral treatment

Raltegravir Emtricitabine/Tenofovir-DF

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

Rifampin, isoniazid, pyrazinamide, ethambutol, pyridoxine, trimethoprim-sulfamethoxazole

Clinical case description

Gender Age

Male 38

eGFR (mL/min) Liver function impairment

>60 No

Description

38-year-old male diagnosed with HIV infection in December 2018 (CD4 count of 136 cells/mm3). After 4 months of initiating treatment with RAL + FTC/TDF, he presented lymph node tuberculosis. Treatment was started with isoniazid/rifampicin/pyrazinamide and ethambutol. The patient had a good clinical response and ART maintained effectiveness despite maintaining the standard dose of raltegravir (400 mg bid).

Clinical Outcome

No unwanted outcome

Editorial Comment

The recommended dose of raltegravir should be 800 mg twice daily. Coadministration of rifampicin and raltegravir decreases raltegravir concentrations (AUC by 40%, Cmax by 38% and Cmin by 61%). An interaction study has shown that, when compared to a standard dose of raltegravir (400 mg twice daily), 800 mg twice daily decreased raltegravir trough concentrations by 53%, but increased AUC and Cmax by 27% and 62%, respectively and thus did not overcome the effect of rifampicin on though concentrations.

University of Liverpool Recommendation

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

For more information click here