

Date of report 20 Jul 2021

Reported case interaction between Ritonavir and Anabolic steroids/ Androgen agonists

Drugs suspected to be involved in the DDI

Perpetrator

Ritonavir

Daily Dose

100 (mg)

Dose adjustment performed

No

Administration Route

Oral

Start date

Unknown

End date

April 27, 2021

Victim

Anabolic steroids/ Androgen agonists

Daily Dose

Unknown

Dose adjustment performed

No

Administration Route

Oral

Start date

End date

Complete list of drugs taken by the patient

Antiretroviral treatment

Raltegravir Tenofovir-DF Darunavir (with Ritonavir or Cobicistat)

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

Osta Max bodybuilding supplement (Ostarine)

Clinical case description

Gender Age
Male 45

eGFR (mL/min) Liver function impairment

>60 No

Description

Acute drug-induced liver injury (DILI), with ALT rising to >1500, AST to 181 IU/L. Liver function tests normalized after discontinuing Osta Max. Osta Max contains ostarine- a selective androgen receptor modulator, which is a UGT and CYP 3a substrate.

Clinical Outcome

Toxicity

Drug Interaction Probability Scale (DIPS)

Score

8 - Probable

Editorial Comment

Ostarine is a UGT and CYP 3a substrate. Inhibition of CYPs by RTV may increase the risk of drug-induced liver injury, as it happened in this patient.

University of Liverpool Recommendation

N/A