



Date of report 16 Apr 2021

## Reported case interaction between **Cobicistat** and **Nebivolol**

### Drugs suspected to be involved in the DDI

Perpetrator

**Cobicistat**

Daily Dose

150 (mg)

Dose adjustment performed

No

Administration Route

Oral

Start date

Unknown

End date

Ongoing

Victim

**Nebivolol**

Daily Dose

5 (mg)

Dose adjustment performed

No

Administration Route

Oral

Start date

Unknown

End date

Unknown

## Complete list of drugs taken by the patient

Antiretroviral treatment

Emtricitabine/Tenofovir-DF  
Darunavir/Cobicistat

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

Nebivolol, hydrochlorothiazide,

## Clinical case description

Gender  
Female

Age  
44

eGFR (mL/min)  
>60

Liver function impairment  
No

Description

44 years-old, Caucasian, female patient. HIV-infection was diagnosed at the age of 32. Her current cART is darunavir/cobicistat plus emtricitabine/tenofovir DF. Her last HIV RNA pVL was 50 copies/ml. (January 2020). She was recently diagnosed with mild hypertension (systolic blood pressure of 155 mm Hg and diastolic pressure of 95 mm Hg). Patients is non-smoker, BMI 26 kg/m<sup>2</sup>. Her cardiologist introduced the following antihypertensive drugs: 5 mg nebivolol plus 12,5 mg hydrochlorothiazide (single tablet regimen) once daily. The patient felt dizziness, flushing, palpitations, irregular heart rate and hypotension. These side effects disappeared soon after replacing nebivolol by enalapril 20 mg qd.

## Clinical Outcome

## Toxicity

### Drug Interaction Probability Scale (DIPS)

Score

**4 - Possible**

### Editorial Comment

This is a potential weak interaction. Nebivolol metabolism involves CYP2D6, and darunavir/cobicistat could potentially increase nebivolol concentrations (darunavir/cobicistat is a weak inhibitor of CYP2D6). Although to limited extent, such an increase in nebivolol concentrations could lead to the development of adverse effects in some predisposed patients.

### University of Liverpool Recommendation

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

For more information [click here](#)