



Date of report 09 Dec 2024

## Reported case interaction between **Dolutegravir** and **Norgestrel**

### Drugs suspected to be involved in the DDI

#### **Dolutegravir**

Daily Dose  
50 (mg)

Dose adjustment performed  
No

Administration Route  
Oral

Start date  
Unknown

End date  
Unknown

#### **Norgestrel**

Daily Dose  
0.5 mg/2 mg (mg)

Dose adjustment performed  
No

Administration Route  
Oral

Start date  
Unknown

End date  
Unknown

## Complete list of drugs taken by the patient

Antiretroviral treatment

Dolutegravir

Lamivudine

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

Norgestrel/estradiol valerate 0.5 mg/2 mg

## Clinical case description

Gender

Female

Age

47

eGFR (mL/min)

>60

Liver function impairment

No

Description

This is a 47-year-old, cisgender woman currently receiving HIV treatment with dolutegravir/lamivudine (500/300 mg) once daily. To manage her perimenopausal symptoms, she was prescribed a fixed-dose hormonal combination of norgestrel/estradiol valerate (0.5 mg/2 mg) to be taken once daily for 21 consecutive days, starting on the fifth day of her menstrual cycle. No side effects occurred following the concomitant administration of norgestrel/estradiol valerate with dolutegravir/lamivudine.

## Clinical Outcome

## No unwanted outcome

### Editorial Comment

Coadministration of a combined oral contraceptive (COC) containing norgestrel/ethinylestradiol has not been studied. Norgestrel is a racemic mixture with levonorgestrel being biologically active. Levonorgestrel is metabolized by CYP3A4 and is glucuronidated to a minor extent, making clinically relevant interactions less likely. Ethinylestradiol is mainly metabolized by hydroxylation. Dolutegravir does not inhibit or induce CYP450 or UGT enzymes and had no clinically relevant effect on the pharmacokinetics of ethinylestradiol when administered with a COC containing ethinylestradiol/norgestimate.

### University of Liverpool Recommendation

◆ No clinically significant interaction expected

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