

CHANGING FROM COBICISTAT TO A RITONAVIR BOOSTED REGIMEN IN HIV POSITIVE PATIENTS

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BACKGROUND AND IMPORTANCE

Recently, change from cobicistat to ritonavir is being promoted at a tertiary hospital due to economic reasons. Therefore, there is a growing need of studying what this switch may involve.

AIM AND OBJECTIVES

Our objective is to describe the differences between cobicistat and ritonavir interactions' profile with the concomitant home treatment in HIV+ patients, consulting three data bases (DDBB).

MATERIAL AND METHODS

✓ **Prospective study** (January–May 2019).

✓ **Population:**

- HIV+ patients
- In treatment with **cobicistat boosted** antiretrovirals, whose treatments were **changed** to a **ritonavir boosted** regimen.



Concomitant home treatment was registered by consulting the primary care online program **Horus®**.

Severity level was assigned as follows:

- 4 (severe)
- 3 (moderate)
- 2 (minor)
- 1 (no interaction)
- 0 (drug not registered in the DDBB)



Interactions between **cobicistat** and **ritonavir** and **domiciliary treatment**



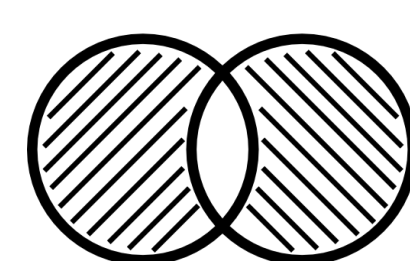
were explored in three DDBB:



Liverpool®, **Drugs.com®** and



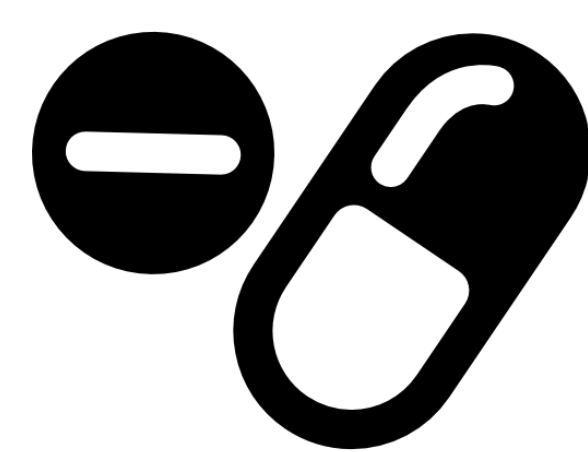
Micromedex®.



Differences in punctuations **between cobicistat and ritonavir** were registered.

RESULTS

- **174 patients** included, 75%♂
- **Median values:**
 - 55-years-old (48 – 59)
 - 3 prescribed medicines (range 0–17)
- **Most prescribed drugs:**
 - Calcifediol (n=81)
 - Atorvastatin (n=45)
 - Omeprazole (n=34)



Cobicistat and ritonavir had a **different interaction severity level** in:

- ✓ **19%** of the drugs according to **Micromedex®**
- ✓ **18%** in **Drugs.com®**
- ✓ **15%** in **Liverpool®**.

Database	Drug	Cobicistat	Ritonavir
Drugs.com®	Atorvastatin	2	3
	Tramadol		
	Thrimetoprim-sulfamethoxazol	0	2
	Metformin		
	Bisoprolol	2	0
Liverpool®	Atenolol	2	0
	Metformin		
	Levothyroxine	0	2
Micromedex®	Atorvastatin	1	3
	Omeprazole		
	Escitalopram/sertraline	0	2
	Levofloxacin		
	Metformin		

CONCLUSION AND RELEVANCE

There are some **significant differences** between cobicistat and ritonavir **interactions profile**. **Caution** must be considered and drug data bases checked when changing from a cobicistat boosted regimen to a ritonavir boosted one in order to solve potential drug interactions.

