

4CPS-187 - “Pharmacist-clinician Collaborative Study for Prospective Identification of Drug Interactions on HIV Patients”

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Background and Importance

As the general population, HIV patients with antiretroviral treatment (ART) tend to be polymedicated. In this scenario, it is crucial to verify the real-time prevalence of interactions and their clinical relevance.

Aim and Objectives

Review of ART and co-medication in HIV patients by a hospital pharmacist in order to detect interactions and improve safety.

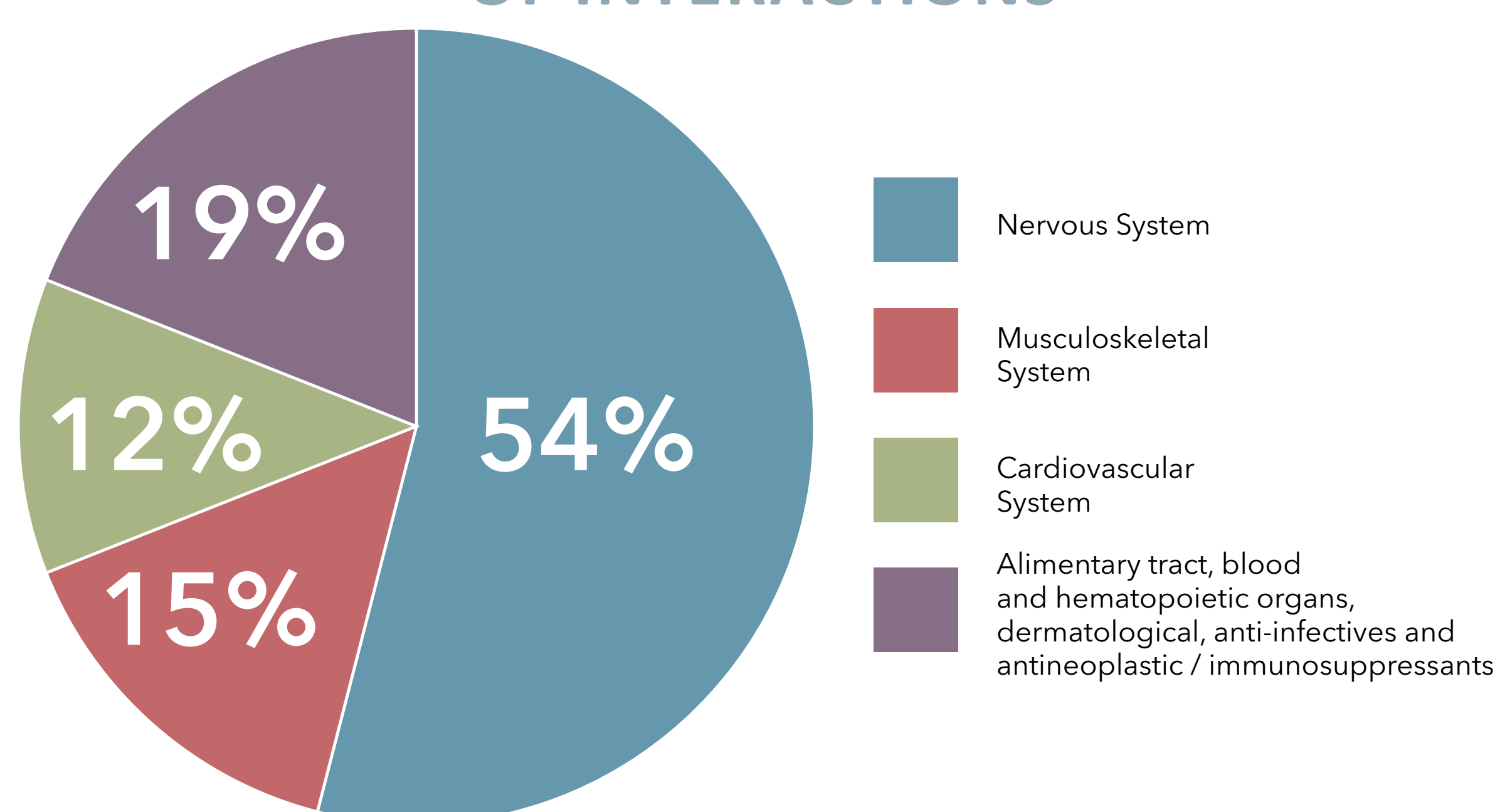
Materials and Methods

Prospective study carried out in consecutive patients seen by a physician and a pharmacist between April-May / 2021.

VARIABLES COLLECTED	INTERACTIONS	
	REVIEWED IN:	CLASSIFIED BY INTERACTION LEVEL:
<ul style="list-style-type: none"> • Age • Sex • Viral load (VL) • ART • Co-medication 	<ul style="list-style-type: none"> • Lexicomp • Liverpool • Micromedex 	<ul style="list-style-type: none"> • No interaction • Potential weak interaction • Potential interaction • Contraindicated

Results

ATC GROUPS WITH HIGH PREVALENCE OF INTERACTIONS



- 100 patients (72% men)
- Mean age 48
- VL <50 copies/ml: 95%
- 68 used co-medication (a mean of 3.3 drugs per patient)
- Interaction in 57 (24.9%) of the 229 drugs:
 - 39 (68.4%) potential interaction
 - 17 (29.8%) potential weak interaction
 - 1 (1.8%) contraindicated

- The 57 detected interactions affected: co-medication (46), ART (9), both (1) and physiological factors (1).
- Recommendations: analytical control of thyroid function, separation of drug intake, drug substitution (antipsychotics, anxiolytics, analgesics), monitoring of immunosuppressant levels, control of kidney function and performance of an electrocardiogram.

Conclusion and Relevance

- Most of the interactions were potential (68.4%), affecting mainly co-medication and specially drugs of the Nervous System.
- Even though HIV physicians are well aware of ART interactions, as polymedication increase, the real-time pharmacist review is a safety need.
- It was gratifying the opportunity to intercept all these interaction in real-time with the prescriber.