# CDK 4/6 INHIBITORS – ANALYSIS OF POTENTIAL DRUG INTERACTIONS



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- Currently, CDK4/6\* inhibitors (PALBOCICLIB (P), RIBOCICLIB (R) and ABEMACICLIB (A)) have an established role in the treatment of locally advanced or metastatic breast cancer (CMM) positive for hormone receptors (HR+) and Negative for human epidermal growth factor receptor 2 (HER2-). [1]
- Increasingly prolonged treatments, associated with various co-morbidities and the concomitant use of medications, dramatically increases the potential for drug interactions (DI). These situations may lead to dose reductions/discontinuations and therefore sub-optimal treatment.[2]

The Hospital Pharmacist is the medicine professional, who, integrated in the multidisciplinary team, can carry out this medication review, guaranteeing the safety and efficacy of the treatment.

\*Cyclin dependent kinase 4/6 inhibitors

### **AIM AND OBJECTIVES**

Analyze potential DIs of these drugs with the usual medication and define procedures to avoid and/or mitigate possible DIs in patients at our Institution.

### MATERIAL AND METHODS



Interactions were identified and classified using the *Radbound UMC Liverpool University* computer platform





- 10 (8%) did not take concomitant medication



403 interactions: 96 (23.8%) low potential interactions, 266 (66%) unexpected interactions, 37 (9.2%)



potential interactions, and 4 (1%) interactions (3 R and 1 P) in which there should be no coadministration of drugs;

**109 records:** there is no information about possible drug interactions

## CONCLUSÃO

- The complexity of these treatments and of the patient himself makes a **multidisciplinary approach** involving pharmacists and oncologists mandatory.
- This study made it possible to evaluate DIs with iCDK 4/6 in our Institution and generate evidence for the implementation of pharmaceutical consultation with a view  $\bullet$ to avoiding/minimizing possible DIs, being yet another strategy within the institution for the effective and safe use of these drugs.

### **BIBLIOGRAFIA**

[1] ABRAHAM, J. et al. Use of cyclin-dependent kinase 4/6 inhibitors for HR+, HER2-, metastatic breast cancer. Breast Cancer Res Treat. 2018 [2] Concurrent Use of Medications with Potential Drug–Drug Interactions: Real-World Analysis of Patients Treated with CDK4/6 Inhibitors. Breast Cancer. 2021

