

## INTRODUCTION - CONTEXT

- ❑ No staff dedicated to this activity (rotation of the entire team : pharmacists and pharmaceutical technicians)
- ❑ Visual inspection in place : **double check by pharmacists** in production and release
- ❑ +8% production activity over the year 2022 for 6 530 preparations/year → Increased risk of errors
  - Desire to **improve the SECURITY** → Introduction of a **terminal analytical control**

## OBJECTIVE



- ✓ **Validate** the routine use of the **qualitative and quantitative control** by UV-visible spectrometry DrugLog® (Pharmacolog) for the release of preparations in our CRU

## MATERIALS & METHODS

- CALIBRATION OF CURVES** by supplier : by groups of speciality/solvent (without discrimination of monoclonal antibodies)
  - 10 to 20 samples required by molecule(pharmaceutical lab)/solvent
- ANALYSIS OF THE FIRST RESULTS** : internet platform
  - From November 2022 to May 2023
  - Analysis of non-conformities (NC)
- EVALUATION OF THE DEVICE** : Writing of a satisfaction questionnaire
  - Analysis of answers : pharmacists and pharmaceutical technicians

## RESULTS

- ✓ **14** molecules validated in routine with 4 monoclonal antibodies
- ✓ 2 types of NC :
  - ✗ **No match** :  
The molecule or concentration is not identified
  - ✗ **Fail** :  
The concentration is outside the acceptance threshold +/- 15%



n = 869 samples  
Total number of NC = 46

**%NC over the study period = 5%**

- ❑ Questionnaire of 10 items of 5 choices (very satisfied to completely dissatisfied)
- ❑ n = 15 participants
- Assigned average = **15,2/20** (min-max : 9-17/20)

## DISCUSSION

- ❑ Absolute NC rate = 5% >> 1,3% [1] → Ordering NCs in « **explainable NCs** » VS « **unexplainable NCs** »
  - Explainable NCs (n = 33) = selection product error, incorrect/omitted homogenization, incomplete sample
  - Unexplainable NCs (n = 13) → systematic re-manufacturing
- **Writing of a guide available to the pharmacist** : detailing necessary steps to take before concluding a true NC
- ❑ Discuss areas for improvement with the supplier :
  - Addition of a color code to distinguish molecules already validated from those being calibrated ?
  - Import of absorbance curves on the internet platform?
  - To provide assistance to interpret ourselves artefacts such as microbubbles ?

→ **This rate drops to 1,5%**

## CONCLUSION



This quality control is an **ASSET** in securing the circuit of injectable chemotherapies



### Positive points :

- ✓ Facility, rapidity and fiability of this quality control currently integrated in routine
- ✓ Reactivity from the supplier



### Limit : funding sustainability ?



### Prospect : Reassessment planned in 1year