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## INTRODUCTION

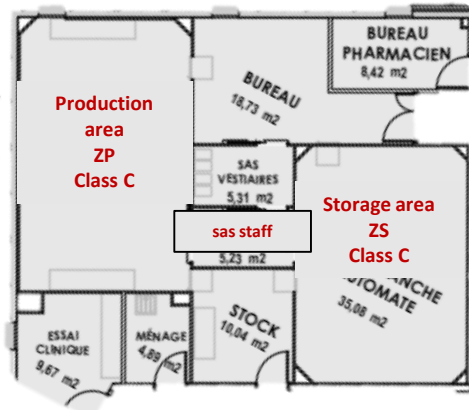
**Context:** The centralized anticancer drugs preparation unit (UPCA) is a Controlled Atmosphere Zone (CAZ) for sterile injectable preparations. Regular monitoring of microbiological contamination is essential, as it represents a major risk for patients. In addition, the recent publication of recommendations for monitoring microbiological contamination in the 2022 Good Preparation Practices (GPP) makes it necessary to take stock of contamination within the UPCA.

**Objective:** To analyse the environmental microbiological non-conformities (NC) that occurred in the UPCA in 2022.

## MATERIELS ET METHODES

Collection of all environmental control results for 2022

- **Surface:** Biomérieux® Count-tact 43699 trypticase soya agar (TSA) medium
- **Air:** aerobiocollector, air agar Biomérieux® 43011 TSA medium



### Information collected :

- ✓ Date
- ✓ Area affected
- ✓ Number of colony forming units (CFU)
- ✓ Number of samples compliant (C) and non-compliant (NC)

### 3 thresholds:

- **Green** : <1/3 regulatory values
- **Intermediate (orange)**: 1/3 regulatory values
- **Alert (red)** = NC regulatory values

## RESULTATS

### Air : n = 165 samples

- No significant contamination in ZP and personal aillock
- 1 contamination in ZS with a **NC rate of 0,6%**

### Surface : n= 1175 samples → 38 NC

- 8 of the 38 NC were preceded by contamination at an intermediate threshold, i.e. 21% of cases where it is assumed that the contamination detected was the result of contamination dating back several weeks.
- *Staphylococcus haemolyticus* (skin flora) found on the ground in the ZP



## CONCLUSION/DISCUSSION

### Low level of contamination to ensure and secure the UPCA production activity

The study identified the most critical points in terms of microbiological contamination and determined the bacterial ecology in collaboration with the Dunkirk hospital laboratory.

**Areas for improvement:** Raising hygiene awareness, verifying the effectiveness of biocleaners based on bacterial ecology and implementing the new sampling plan in accordance with BPP 2022.