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Introduction



Preparation of parenteral nutrition (PN)
 = sterile preparations



Production of PN under optimum safety conditions as described in the 2023 Good Preparation Practices = **high-risk activity**



Hospital pharmacy technician (HPT)
 = **major risk of microbial contamination during aseptic handling**



Decision to carry out an **assessment of professional practices** in the form of an **observational audit** targeting the risk of microbiological contamination

Objectives

Create an **audit tool** and **measure the gaps** between observed and expected practice in relation to internal quality documents derived from the 2023 Good Preparation Practices.

Material and Method

1 Development of the audit grid

From January to March 2023



Working group: 2 pharmacists, 1 pharmacy resident, 1 senior hospital quality technician, 1 healthcare executive and 1 referring hospital pharmacy technician

2 Realization of audit

From March 28 to June 30



1 single auditor
 → 1 pharmacy resident



Audited personnel : HPTs authorized to produce PN

3 Data entry and analysis



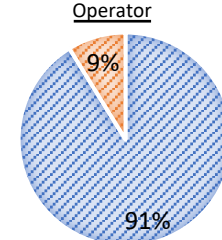
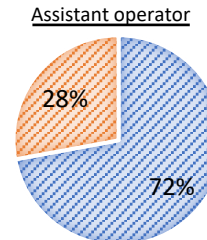
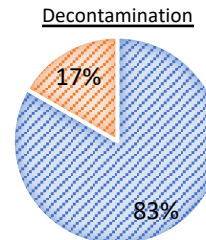
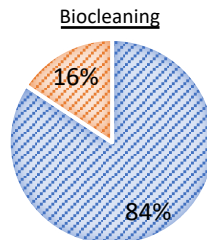
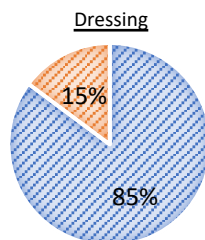
Via SPHINX® software

Results

- Audit grid** including **99 items** targeting the risk of microbiological contamination
 - Divided into **5 key steps** of the production process:
 - Dressing (22 items)
 - Biocleaning (18 items)
 - Decontamination (27 items)
 - Assistant operator (18 items)
 - Operator (14 items)

- 12 HPTs** audited in 2 times (grid containing items covering both the operator and assistant operator roles)
 - 34h** of audit

3



■ Compliant ■ Non-compliant

Overall compliance: **85%**

Discussion-Conclusion

The audit highlighted quite a few excesses. An **improvement action plan** will be put in place, focusing in particular on the importance of the exposure time of the equipment to the disinfectant, raising the team's awareness of the need to change gloves, and re-training on how to take surface samples.

As a follow-up to the audit, a **self-assessment questionnaire** will be sent to agents, so as to compare their responses with the audit results.