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BACKGROUND AND IMPORTANCE

- High-alert medications can lead to serious adverse events when errors occur during the drug management.
- To raise awareness among healthcare professionals (HCPs), our hospital pharmacy has developed a fun educational tool in puzzle form: **PUzzle** (PUI is the French acronym for internal use pharmacy).



To evaluate the impact of PUzzle on healthcare professionals' knowledge on high-alert medications, as well as participants' satisfaction

MATERIALS AND METHODS

WHAT ?
A monocentric study

WHERE ?
A 300-bed hospital in Paris region (France)

WHEN ?
Between January and August 2022

Participation was voluntary and anonymous
→ No ethical approval was requested

HOW ?

➤ **PUzzle :**

- A puzzle made of **12 pieces** containing general information on high-alert medications and a description of their management, monitoring and antidotes
- A **question-card** is associated with each puzzle piece

○ To assess healthcare professionals' knowledge, participants completed :

- A **pre- and post-training questionnaire** consisting of five multiple-choice questions (total score ranging from 0 to 5)
- A **satisfaction questionnaire** consisting of four items rated from 1 "dissatisfied" to 4 "very satisfied"

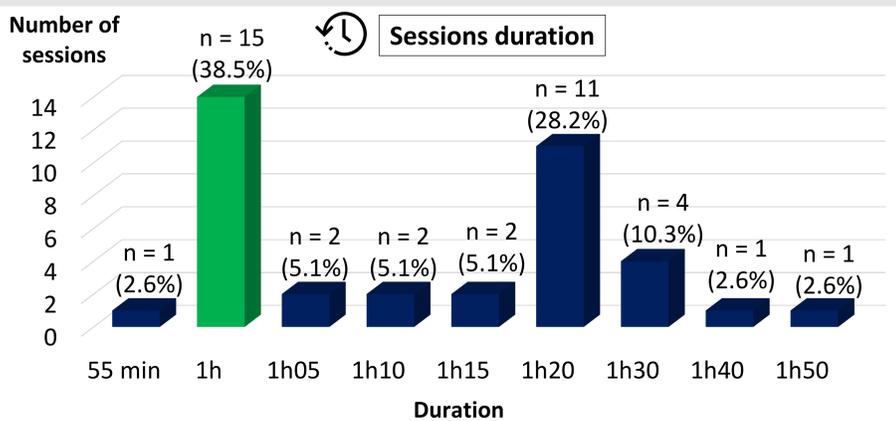
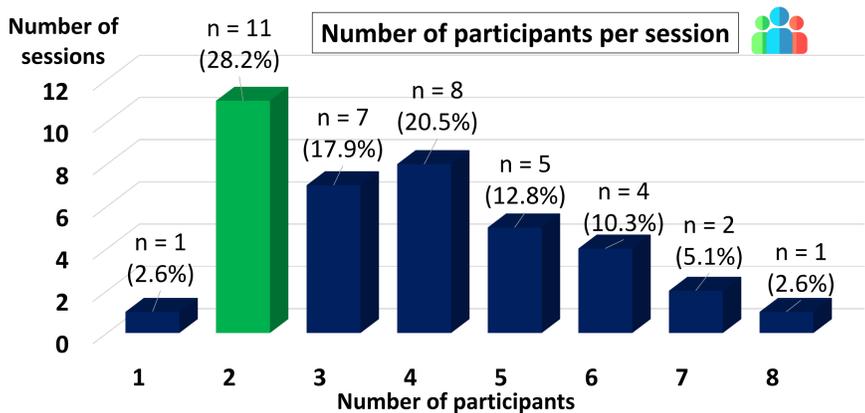
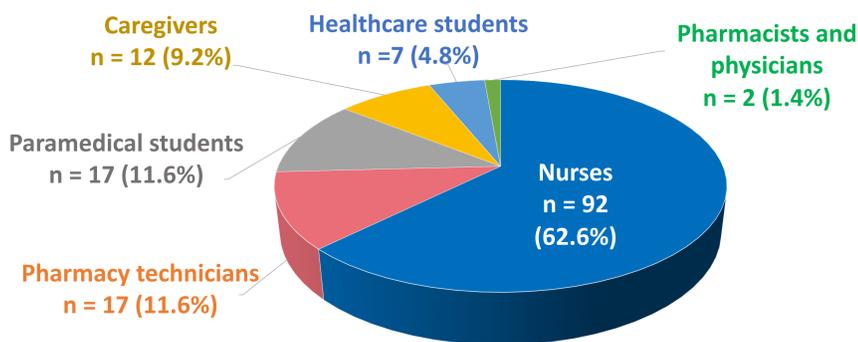


RESULTS

Sessions information

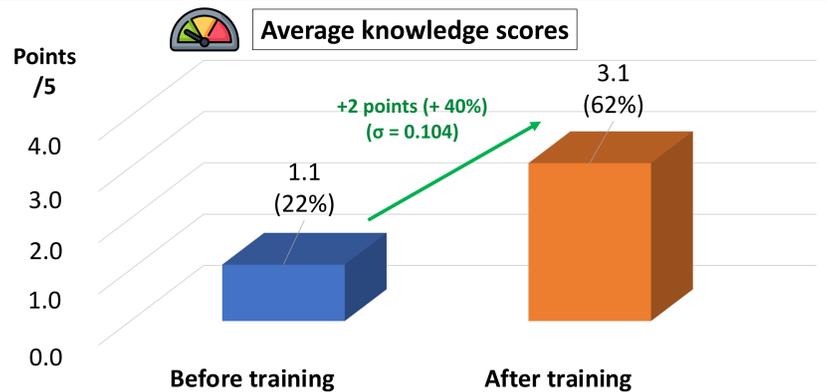
39 sessions **147 participants**

Occupational profile of participants



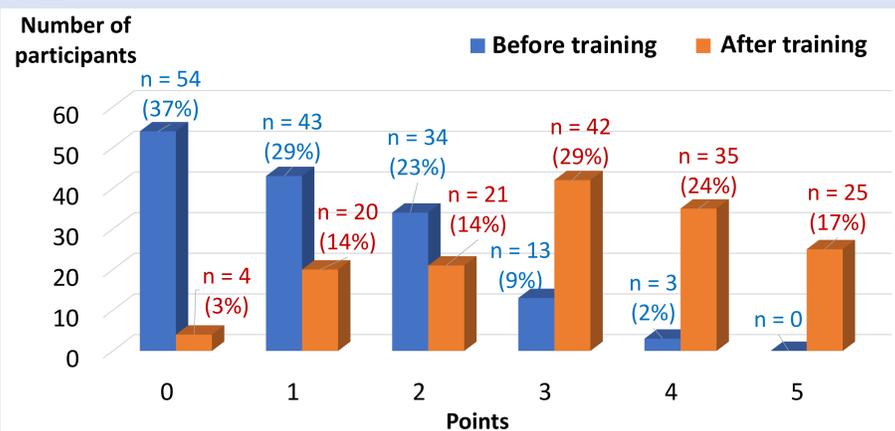
➤ Session median duration was 60 minutes [minimum = 55 ; maximum = 110]

Scores information



➤ Significant improvement (p < 0.001) : average increase of +2 points (σ = 0.104)

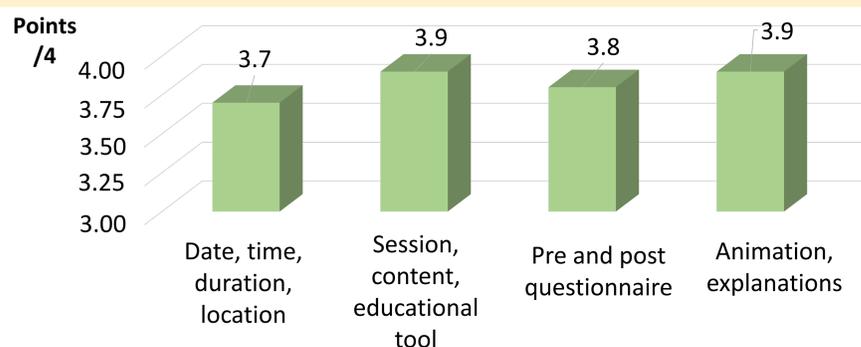
Comparison of points obtained between before and after training



➤ Twenty-five HCPs (17%) achieved the highest score of 5, **only after training**



Satisfaction of participants



➤ Participants attributed an average score of 3.8/4 (σ = 0.096)

CONCLUSION AND RELEVANCE

PUzzle is a fun educational tool that significantly improves HCP's knowledge on high-alert medications. Suitable to all HCPs, this training will gradually be extended to more physicians. Therefore, PUzzle will be part of a continuing education program on drug-induced adverse events implemented at our institution.

