

Contraction

Impact of PUIzzle, a playful educational tool on high-alert medications on healthcare professionals' knowledge: what's new and what's left?



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BACKGROUND AND IMPORTANCE

- High-alert medications (HAMs) = medicines that have higher risks of harming patients
- To prevent this, our hospital pharmacy trained 147 healthcare professionals (HCPs) on this topic using a fun educational tool in puzzle form: PUIzzle (PUI is the French) acronym for internal use pharmacy), which has significantly improved short-term knowledge on HAMs
- However, its impact on long-term knowledge retention is not known



To evaluate the impact of PUIzzle on HCPs' knowledge retention and its contribution to professional practices



MATERIALS AND METHODS

HOW ?

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The first part focused on **professional practices**

The second part consisted of five identical questions to the pre- and post-training knowledge questionnaire, to compare the scores of the pre-training (PrT), post-training (PoT) and 3WAT questionnaires

Between January and August 2022

Participation was voluntary and anonymous \rightarrow No ethical approval was requested

3 The third part added five other questions on HAMs



✓ To elaborate a list of HAMs that meets local specificities

 That all HCPs know how to identify HAMs ✓ That all HCPs know about this list (or at least where to find it)

HCPs' knowledge of the drugs composing the list of HAMs

HCPs' knowledge on the locations of the list of HAMs



Fifty-two (87%) HCPs could name one of the two locations of the list of HAMs



> HCPs' knowledge about HAMs increases greatly after training and is maintained over time





Almost 75% of HCPs could identify HAMs on the prescription software

Most changes in practice were observed at the prescribing level (n = 31; 52%). HCPs declared being more attentive to HAMs' labeling



Significant improvement between PrT and 3WAT (p <0.03)*</p> Non-statistical decrease between PoT and 3WAT (p < 0.17)</p>

✓ Hypothesis: knowledge retention long after the HCPs training

> Overall, the average rate of correct answers is similar between the second and third parts of the 3WAT questionnaire

CONCLUSION AND RELEVANCE



The use of PUIzzle improves healthcare professionals' practices and overall knowledge retention about high-alert medications.

Therefore, our hospital will organize regular training sessions, and this training will be transposed into continuing professional education.





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