

TRAINING AND QUALIFICATION IN VISUAL INSPECTION AND LABELLING OF HOSPITAL-COMPOUNDED EYE DROPS

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BACKGROUND

In accordance with Ophthalmic Preparations monograph of the European Pharmacopoeia, hospital-compounded eye drops must undergo visual inspection before vial labelling.

Our unit produces these preparations and has **inspection tables** and an **automated labelling system** to perform these final processes.

AIM



Formalize staff training in visual inspection and labelling of eye drops, and implement evaluation tools to authorize staff.

MATERIALS AND METHODS

<u>Training tools</u>:

- Training booklet: description of the workflow and equipments (inspection tables for visual control and automated labelling machines)
- Defect library consisting of 10 non-compliant (NC) vials for training purpose

Evaluation tools:

- Knowledge test (14 questions): multiple-choice quizzes and short answers
- Test batch of 60 eye drops vials (40 oil-based eye drops and 20 water-based eye drops) including 11 NC
- Practical session: visual inspection + labelling using skills evaluation grid
- End-of-training interview with a pharmacist → qualification
- Evaluation of satisfaction of trained operators

RESULTS



n = 5 trained operators (4 pharmacy technicians and 1 pharmacy resident)



Training duration = 3 days



Evaluation on day 7

Knowledge test (extract of 3 questions)

Depending on the question, tick the correct answer(s) or write a short answer. Leave the right-hand column for the examiner.

QUESTIONS	Α	В	С	D	E	
1 - Visual inspection means:						
 A) Checking for visible particles in the solution 						
B) Checking for particles on the vial						
 Checking the volume of the solution 						
D) Checking the aspect of the solution						
(limpidity, colour, viscosity)						
E) All the answers are correct						
2 - Before performing a visual inspection of a batch						
of eye drops, you must:						
A) Clean the vials with alcohol						
B) Label the vials for identification purposes						
C) Recount all the vials						
D) Use the batch file						
E) All the answers are correct						
3 - How should the mirage station be prepared for						
visual inspection?						
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Average score = 15,5/20

Test batch (60 vials)

100% of NC identified by 4 of 5 participants

Reject of some compliant vials: **false detection of particles in oily eye drops** (n = 2/5 participants) → tolerated error because in case of doubt during routine work, second opinion can be requested

n = 1/5 participant failed to detect an underfilled volume

Scenario-based evaluation of all skills









100% of trained operators have been authorized



100% participant satisfaction

DISCUSSION/CONCLUSION



The results showed that the training effectively enables staff to acquire the necessary skills needed for inspection and labelling of eye drops vials



Updating ambiguous items in the knowledge test based on learner feedback



Tools used to train new staff and for periodic reassessment of current personnel