

From centralized cytotoxic reconstitution unit (CCRU) to day-care unit (DCU), all involved with chemical contamination: spread simulation





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Background

2022 Failure mode, effects and criticality analysis → risks associated with chemical contamination, +++ lack of information among exposed staff

Materials and methods

Results

1) Survey: perceptions of chemical contamination: 3 questions on exposure, 3 on information, 4 on protection, 1 picture-game: "where is the contamination?", 1 open field "ideas"

2 Coordinations nurses

Objectives

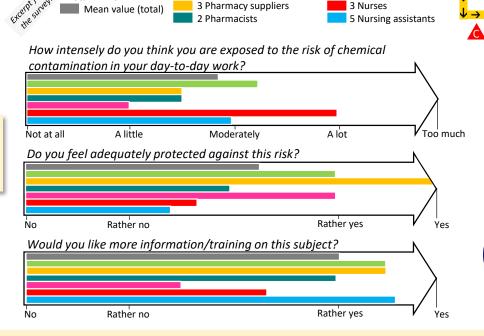
- Evaluation of staff perceptions of chemical contamination, from the CCRU to the DCU
- Simulation game on the diffusion of external chemical contamination of vials and preparations

2) Simulation game of diffusion of external contamination by quinine (125 mg/ml) on 6 vials, 3 bags, 3 syringes, 6 packages.

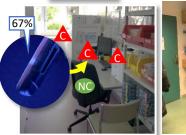
At the CCRU: simulation of vials reception/storage, manufacturing sheet printing, preparation of materials, output from isolator, packaging, releasing, transport.

At the DCU: simulation of preparations receipt/storage, preparation of materials and premedications, administration, elimination.

At the end of the simulation, fluorescence detection with staff (fluorescence hunt) with a 325nm UV lamp.



A Presence of quinine contamination No Absence of quinine contamination $x \times x \times y$ Percentage of respondents who considered this location to be "contaminated"











Discussion - conclusion