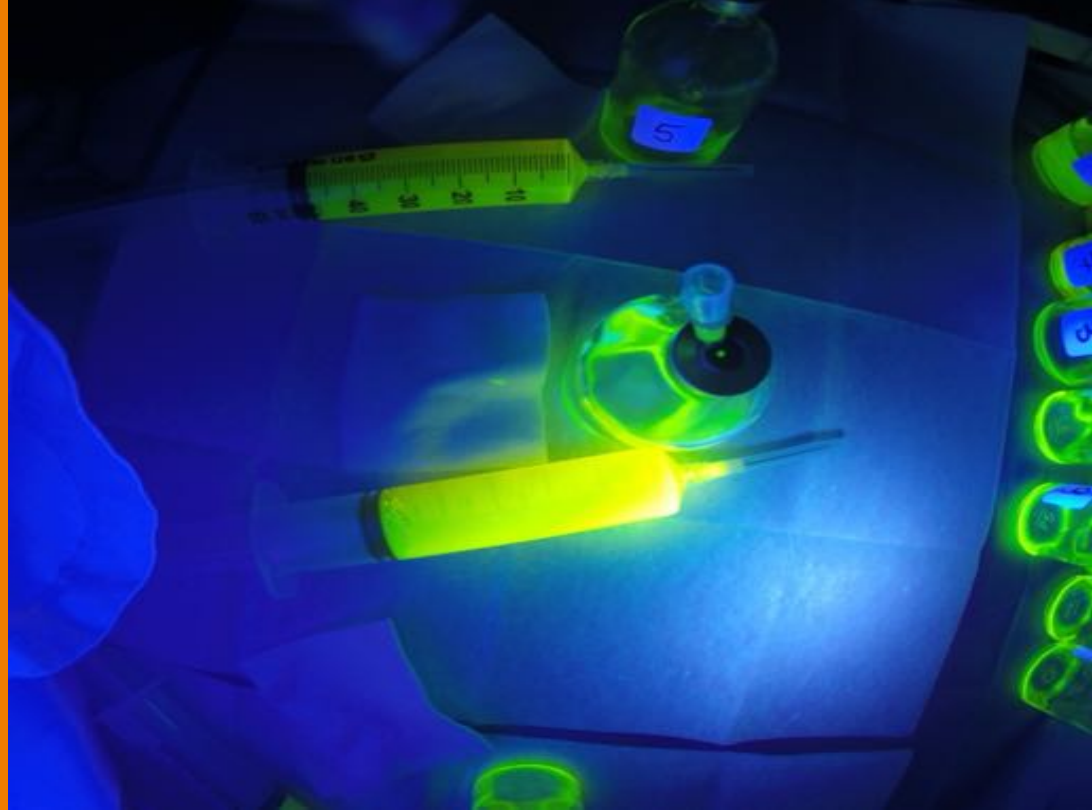


Aurélie VAN LAETHEM

November 2020

Reassessment of practices around chemical contamination associated with the chemotherapy production activity: Application of fluorescein tests



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- **Cyclo-CONTA** Project (2018):
Contamination of drugs vials and infusion bags (ng)
 - Goal:
Reassess **Good Preparation Practices** and specifically the correct use of **compresses**
- Limit the risk of occupational exposure**

1. Working **group** : define the risky steps
2. Processes were simulated by **3 pharmacy technicians** using reconditioned **fluorescein** solutions
3. Assessment of macroscopic contamination (**vials, gloves, absorbent fields and compresses**) / UV lamp

9 Processes studied +/- compresses

Installation of the Spike® or an air intake (4)(5)

- Reconstitution with Spike® or needle (6)
- Sampling (7)

Injection into the bag (8)

Waste (9)

Decontamination of the vials (1)

- Removal of flip-off (2)
- Decontamination of the vial collection site (3)

(1) Decontamination of the vials with removal of the flip-off:

1 compress / 3 vials

Gloves: -

Absorbent field: -

Vials: ++ (2/3 vials)

Compresses: +++

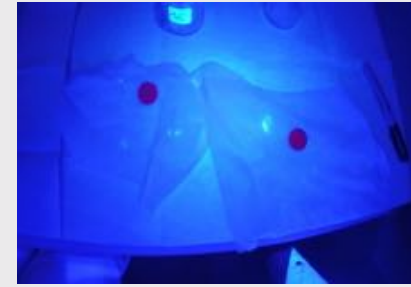
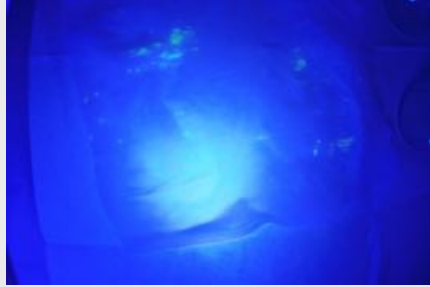
1 compress / 1 vial

Gloves: -

Absorbent field: -

Vials: -

Compresses: ++



(2) Removal of the flip-off: -

(3) Decontamination of the vial collection site:

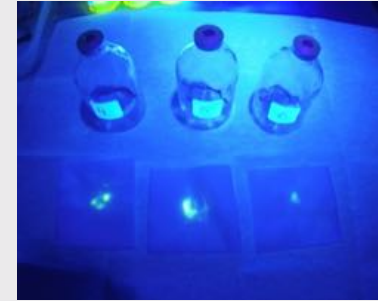
1 compress / 3 vials

Compresses: +++

1 compress / 1 vial

Compresses: +

« Standard
decontamination »:

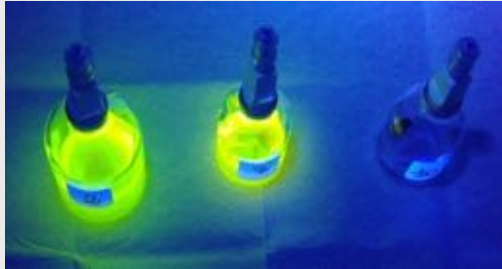


Decontamination
with « compresses
on the absorbent
field »:

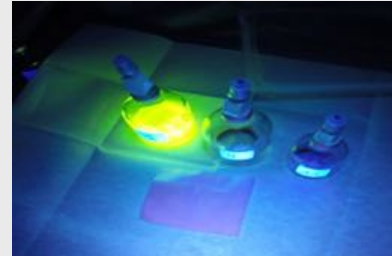


(4) Installation of the Spike®: -

Without compresses



With compresses

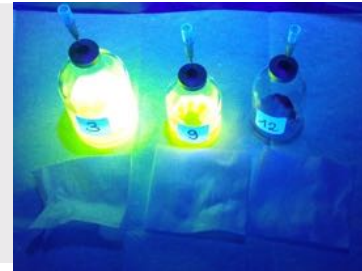


(5) Installation of an air intake: -

Without compresses



With compresses



(6) Reconstitution with Spike® or needle:

Without compresses

Gloves: -

Vials: -

Absorbent field: -

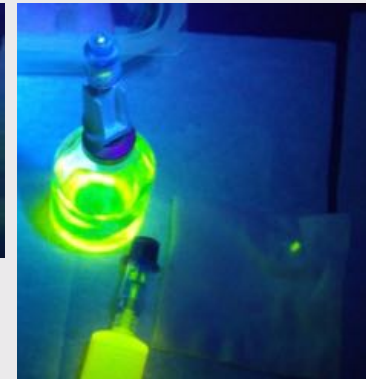
With compresses

Gloves: -

Vials: -

Absorbent field: +

Compresses: +++ with needle



(7a) Sampling with a Spike®/Spiros®:

Without compresses

Gloves: -

Spike®: contamination

Spiros®: contamination

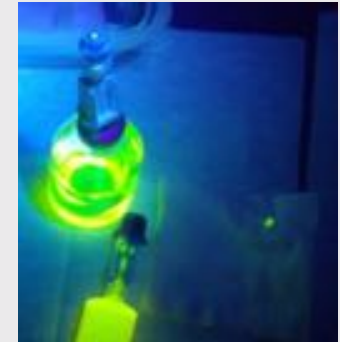
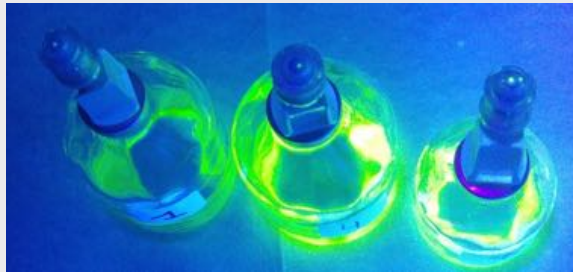
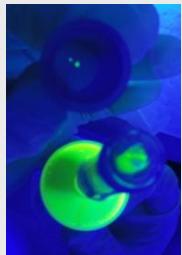
With compresses

Gloves: contamination (1/3)

Spike®: contamination

Spiros®: contamination (2/3)

Compresses: ++



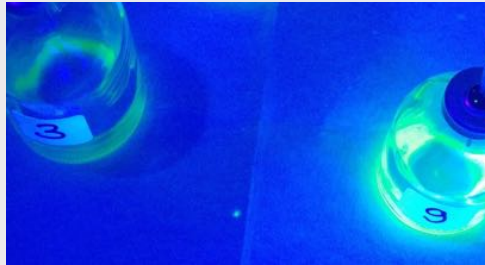
(7b) Sampling with a needle:

Without compresses

Gloves: -

Vials: septum (2/3)

Absorbent fields: contamination

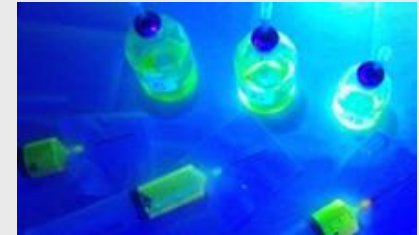
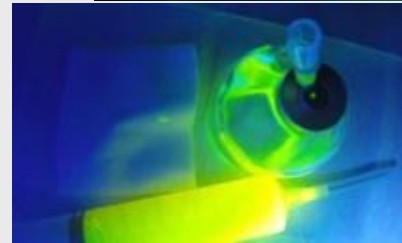


With compresses

Gloves: -

Vials: -

Compresses : ++++++++

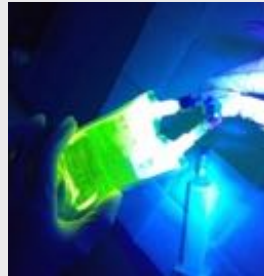
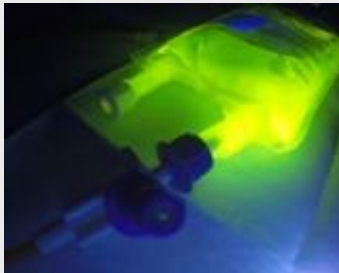


(8) Injection into the bag:

Without compresses

Gloves: -

Injection sites: +++ (3/3)

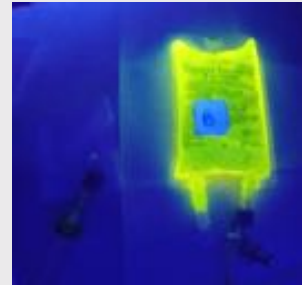


With compresses

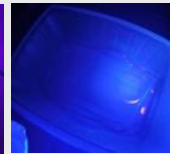
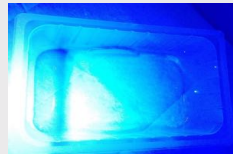
Gloves: -

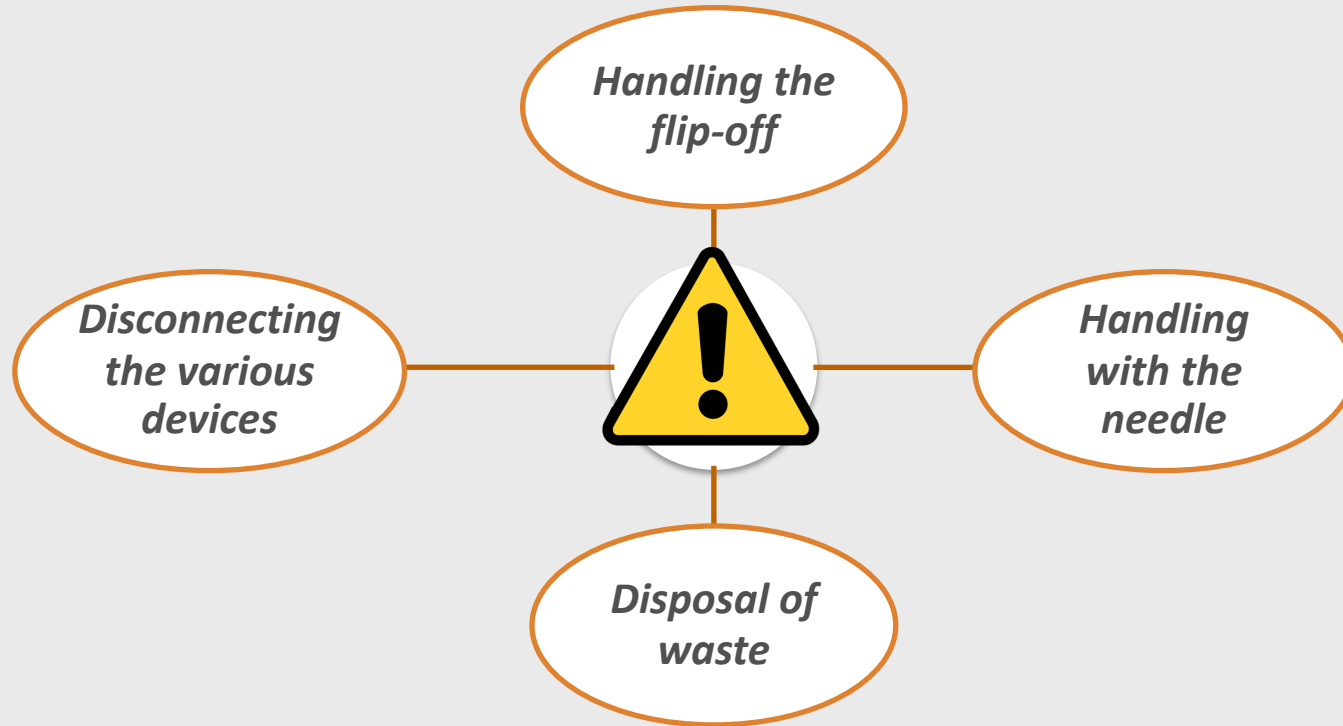
Injection sites: -

Compresses: +



(9) Use of waste boxes: +/-





Guidelines (Institut Curie) : use of compresses at critical stages only!

- *Decontamination of the vials : laminar flow hood (1 compress / 1 vial)*
 - *Handling the needle*
 - *All disconnections*
 - *Removal of compresses and devices with precaution*
- ➔ **Impact - Cyclo-CONTA Project (2019)** : ND-NQ levels on the external surface of the vials and infusion bags.

Aurélie VAN LAETHEM
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Thank you for your attention!



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