

Feedback (“RETEX”) about a prolonged breakdown of air treatment in the cytotoxic production area

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Context

Production of 80 à 100 preparations/day
 2 positive air pressure isolators controlled atmosphere area classified D



30/12/2019
 global failure of the air treatment ⇒ initial perspective of repairment within 5 weeks

Challenge: maintain the supply of chemotherapy treatments during the holiday season and for several weeks

Implementation of experience feedback to analyze our response capacity and develop recommendations

Material and Methods

30/12/2019 : Crisis meeting

- Pharmacists
- PUI manager
- Technical department manager
- operational hygiene team
- risk manager

- List of technical and organizational solutions
- Comparison in terms of productivity, quality and safety for patients and staff
- Choice of a solution by the group, and evaluation methods
- Hot debriefing meeting after failure resolution

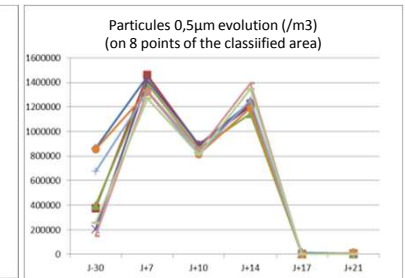
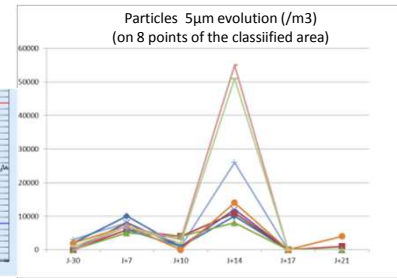
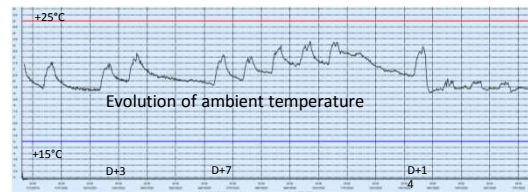


Results - Discussion

Degraded Solution	Evaluation	Conclusion
Usual degraded procedure (transfer to a laminar flow hood)	Heating failure awaiting repair, and a single workstation, insufficient over a long period	Impossible to implement immediately
Transfer to another production unit of the hospital group	No sufficient capacity for the entire production on 1 external unit, and no existing logistics flows	Impossible to implement immediately
Implementation of external rental structure	No time nor budget for implementation	Impossible to implement immediately
Continuity of activity in usual area without ventilation	Reinforced monitoring of the environment and implementation of 2 air purifiers	Only option immediately available

Air quality and equipments monitoring with this chosen option :

particle values maintained in class D, except for 2 samples on D +14



☺ Both isolators remained compliant with class A.

Evolution at D+15: repairment of air treatment ⇒ environmental controls all returned to class D compliance on day 17.

☹ risk of staff exposure to cytotoxics : uncontrolled (absence of pressure differential between rooms)

Debriefing at D+25 : highlighting of the vulnerability of our unit.

⇒ **RETEX recommendations : focus on the need to anticipate new degraded solutions.**

Conclusion : This experience allowed us to better prepare for new production interruptions (unit dating from 2009) and to increase the number of degraded solutions.