#### **Dr Alexandre ACRAMEL**

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Application of annual monitoring of environmental contamination to limit the risk of occupational exposure to hazardous drugs on two hospital sites





ENSEMBLE, PRENONS LE CANCER DE VITESSE

#### Introduction







#### APPLICATION OF WIPE SAMPLES TO ASSESS PRACTICES AND LIMIT THE RISK OF OCCUPATIONAL EXPOSURE TO HAZARDOUS DRUGS IN TWO HOSPITALS: FROM VIAL RECEIPT TO DRUG ADMINISTRATION

ALEXANDRE ACRAMEL

DEPARTEMENT OF PHARMACY, INSTITUT CURIE, FRANCE

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Alexandre ACRAMEL – Cyclo-CONTA





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# Wipe sampling campaign to

(re)assess:

- Decontamination of manufacturer vials
- 2. External contamination of infusion **bags**
- 3. Cross-contamination
- 4. Decontamination procedures
- 5. Contamination in Healthcare departments





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Corrective measures (2018-2019)	Area / Object	2018	2019
<ol> <li>Reassessment of practices around chemical contamination associated with the chemotherapy production activity: application of fluorescein tests</li> <li>Update of good handling practices</li> <li>Update of manufacturing processes by automated system</li> </ol>	Bags manufactured by automated system (surface and injection site)	279-4239 ng	21-309 ng
	Bags manufactured by manual system (surface and injection site)	ND-404 ng	NQ-20 ng
	PLACEBO bags manufactured by manual system (inside)	-	ND-46 ng
	Gloves	10-155 ng	NQ-15 ng



# **Results : PRODUCTION UNITS (St-Cloud, n<sub>2</sub> = 27 samples)**

Corrective measures (2018-2019)	Area / Object	2018	2019
<ol> <li>Update of manufacturer vial decontamination</li> <li>Update of decontamination processes</li> </ol>	Cart (reception area)	ND	ND
	Drug vials BEFORE cleaning (*2018 SANDOZ vs. 2019 BAXTER)	NQ-106 ng	NQ-12 ng
	Drug vials AFTER cleaning (*2018 SANDOZ vs. 2019 BAXTER)	8-93 ng	ND
	Medicine cabinet (handle)	NQ	ND
	Isolator BEFORE cleaning (benchtop, shelf, "tubing handle")	-	76-126 ng
	Isolator AFTER cleaning (benchtop, shelf, "tubing handle")	NQ-14 ng	14-168 ng
	Isolator BEFORE cleaning ("turnstile")	-	76 ng
	Isolator AFTER cleaning ("turnstile")	196 ng	2291 ng
	"Storage isolator" (benchtop)	-	ND
	"Medication picking trolley" (handles)	-	ND
	"Medication picking basket"	-	166 ng
	QC prep analytical control area (benches, handles, hand shower)	10-11 ng	ND
	QC prep analytical control area (carousel)	30 ng	35 ng



7

Corrective measures (2018-2019)	Area / Object	2018	2019
<ol> <li>Audit of good administration practices</li> <li>Update of procedures related to the administration of chemotherapy</li> </ol>	"Patient sign" (reception area)	-	ND-NQ
	DECT / Phone	-	ND
	Computers administration area (mouse)	-	ND
	Waste bins in the administration area (metal plinths)	-	ND
	Nursing toilets (floor, toilet seat, sink)	-	ND-NQ
	Patient toilets (floor, toilet seat, sink)	9-197 ng	6-645 ng
	Armchairs in the administration area (backrest)	-	ND-NQ
	Floor (infusion stands)	46-2732 ng	NQ-99 ng
	Floor (infusion stands) AFTER cleaning by an outside company	-	NQ-215 ng



Corrective measures (2018-2019)	Area / Object	2018	2019	
Audit of good administration practices	Handles (room)	-	ND-NQ	
	Armchairs in the administration area (armrests)	ND-47 ng	ND	Daily care
	Pumps (infusion stands)	ND-30 ng	ND	unit
	Floor (infusion stands)	ND-18 ng	22 ng	
	Transport trays (storage)	-	ND	
	Handles (room)	-	ND-122 ng	
	Armchairs in the administration area (armrests)	-	ND-NQ	Hematology department
	Pumps (infusion stands)	-	ND-65 ng	ucpartment
	Floor (infusion stands)	-	ND-21 ng	



Application of annual monitoring of environmental contamination to limit the risk of occupational exposure to hazardous drugs on two hospital sites ?

→ Access the effectiveness of the corrective measures

- → Practices are significantly improving
- → Risk of occupational exposure is under control
- → Progress is still to be made concerning bio-cleaning



Application of annual monitoring of environmental contamination to limit the risk of occupational exposure to hazardous drugs on two hospital sites ?

→ To maintain exposure control : regular awareness-raising of good practices

→ Improvement or maintenance of these residual levels will be assessed

> Next campaign (2021) with a new tracer (Paclitaxel): **Curie-CONTA** Project



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# Thank you for your attention!





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