



## Ecological and economic impact of a misbelief in a CPU

I. Challier, M. Le Goff, N. Bakour, C. Orsini, A. Coquard  
Pôle Pharmacie, CHU de Rouen



### Context

Waste from a cytotoxic preparation unit (CPU) = type of medical waste (MW).  
MW = economic and ecological cost



### Objective

« Changing isolator's waste container at the end of the day may prevent a container change at peak activity the following day » (*team belief*)  
Is it true?



### Material and method

Count, for a month, for one isolator, number of containers (C) depending on two systems:

**A = Change of container when full**

**B = Change of container when full + At the end of the day**

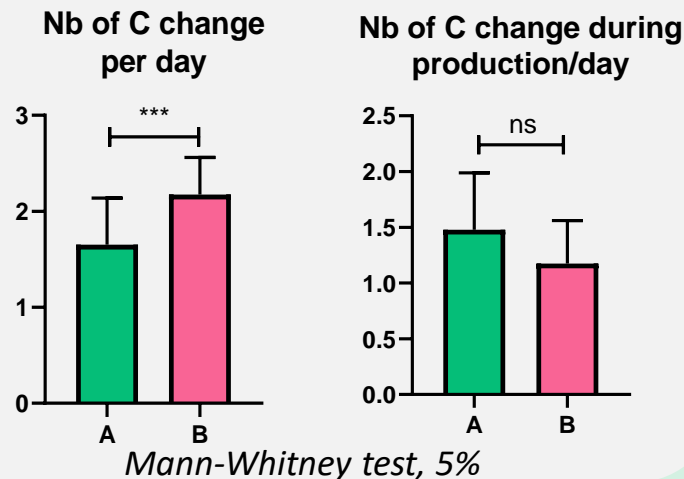
1 container (C) = 50L of volume capacity and a cost of 50€

Transport to treatment center by transport container (TC) of 800 L

1 truck = 12 TC for 8 km



### Results



### Discussion

1 year projection and all the isolators of the unit, system B → system A decrease of:

- **18 000€/year** in C purchase
- 18 000 L of MW volume = 2 trucks



**28 Kg of CO<sub>2</sub>**  
(transport only)

Would need to be completed with:

- Cost of MW treatment
- Carbon impact of C production