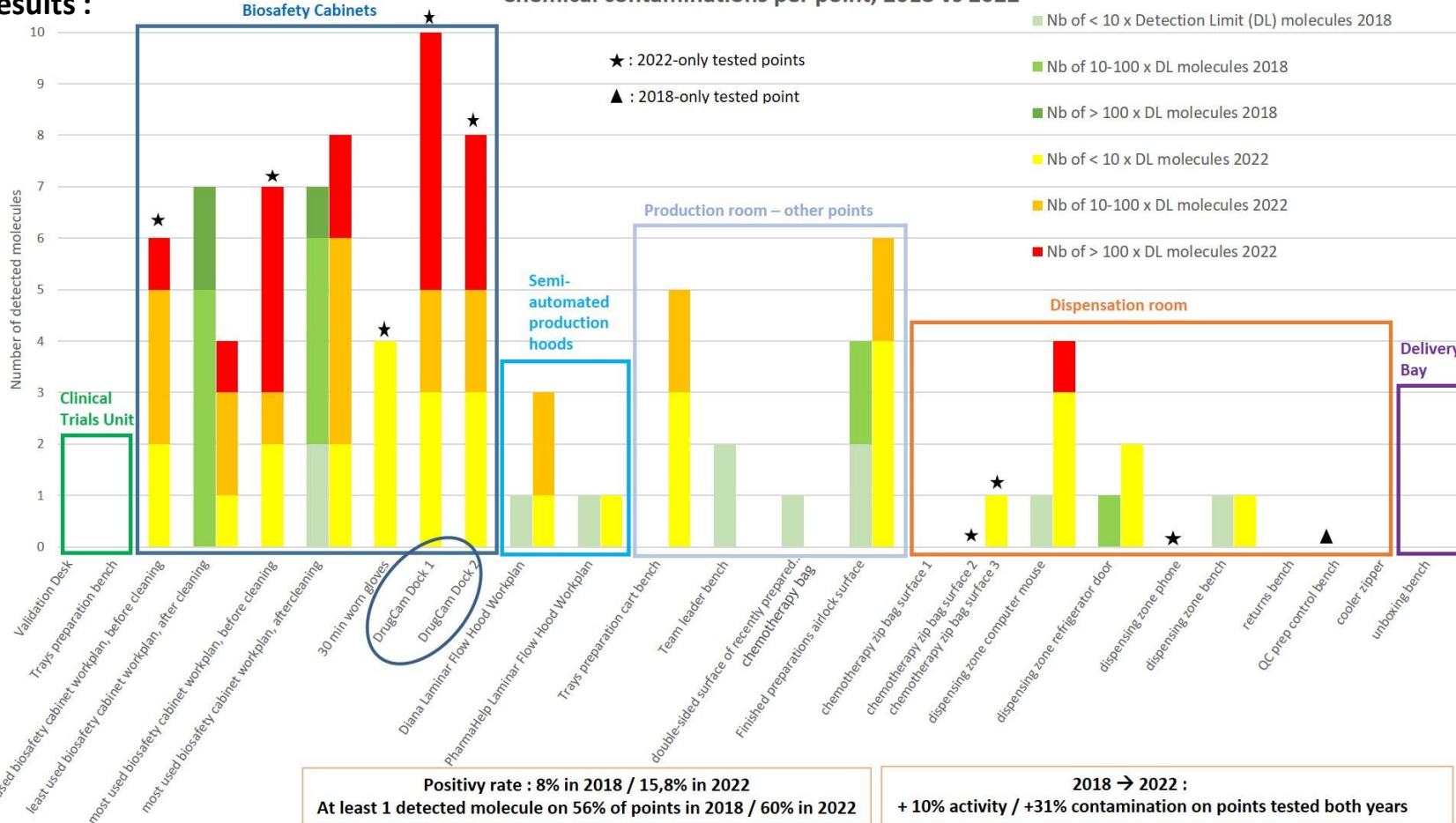


Introduction : Chemical contamination monitoring in a Cytotoxic Reconstitution Unit is necessary to evaluate and limit cross-contamination and staff exposure.

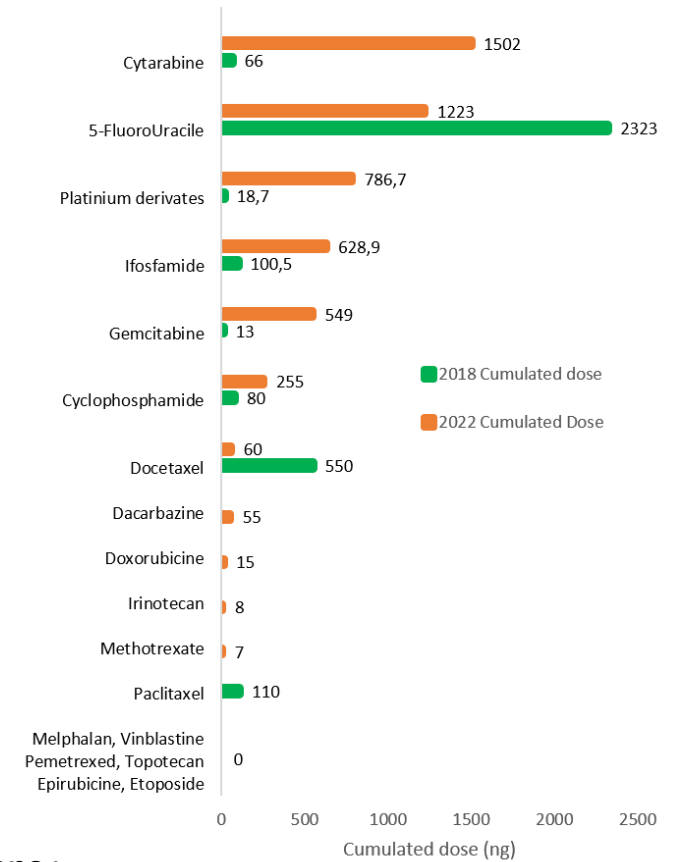
Materials and methods : 18 sampled points in 2018, 25 in 2022, with moistened filter papers rubbed on a 225 cm² surface. 18 molecules researched, by liquid chromatography + tandem mass spectrometry.

Results :

Chemical contaminations per point, 2018 vs 2022

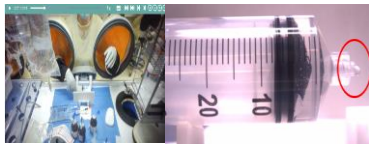


Chemical contamination per molecule 2018 vs 2022



Conclusion – Discussion :

- Increase possibly due to videodigital control system introduction (2019)
- Cleaning protocol not effective enough



Cytotoxic dissemination

Implemented actions :

- Pharmacy staff and institution management information
- New cleaning protocol with Sodium Dodecyl Sulfate / Isopropyl Alcohol
- New manipulation technique to limit drops dissemination

Frequent monitorings to evaluate the effectiveness of these measures