REAL-LIFE TEST OF A SECURE DEVICE FOR THE PREPARATION AND ADMINISTRATION OF ANTICANCER DRUGS: CHEMOLOCK® (ICU MEDICAL)

COM23-33641

S. Perreau, M.-L. Brandely-Piat, R. Batista Clinical pharmacy unit, UPSO2, GHU AP-HP Centre - Hôpital Cochin





Cost +123%

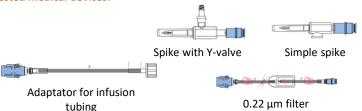
INTRODUCTION

- Our unit prepares over 40,000 injectable anticancer drug preparations, with an increasing part of robotic preparation
- Considering the limitations in human ressources, we seek to improve and accelerate our manual and robotic manufacturing processes
- Our current infusion setups (short pipes and shafts) cause issues such as incomplete flow of bags, filter saturation and leeks
- The secure system for preparing and administering anticancer drugs, Chemolock® (ICU Medical), could potentially meet our needs. Therefore, we have decided to assess the feasibility of its implementation in our facility.

METHODS

The Chemolock® devices (ICU Medical) were used for two weeks in January 2023 for the manual preparation and administration of injectable anticancer pouches intended for the oncology day care unit.

Tested medical devices:



Questionnaires submitted to hospital pharmacy practitionners (Q-PPH) and nurses (Q-IDE) after 7 days of use:

O-PPH

- **Ergonomics**
- Preparation speed
- Ease of injection of active substance (AS)
- Homogenisation

Safety of use Verv

good

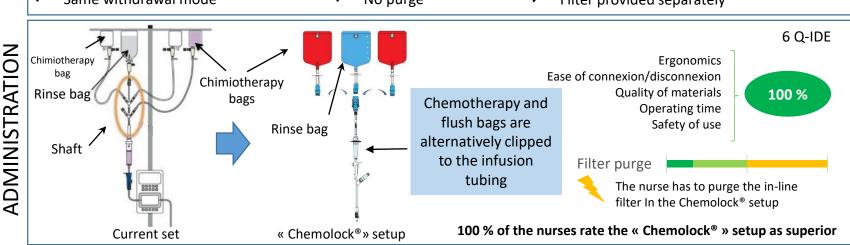
Good

Q-IDE

- Ergonomics Ease of connexion/disconnexion
- Filter purge
- Quality of materials
- Operating time
- Safety of use

Bad

RESULTS 4 Q-PPH **Ergonomics EPARATION** Preparation speed +/-Safety of use Difficulties with Y-valve AS injection Chemoclave® PR Homogenization **AFTER BEFORE** Same withdrawal mode Filter provided separately No purge



DISCUSSION

At the nurses level:

- ✓ Apprehension phase of 2-3 days to become familiar with the new setup > importance of training (presence of a laboratory representative)
- ✓ The « Chemolock®» setup was very well received, especially due to the reduction in musculoskeletal problems associated with tubing clamping/deplamping
- ✓ Improved administration safety thanks to the dry connection and the audible 'click' during attachment

At the hospital pharmacy practitionners level:

- ✓ Overall satisfaction is good (75%) due to the elimination of purging = time-saving in preparation
- ✓ Some reservations were expressed regarding the Chemoclave® valve → referencing Freeflex+® bags could be an option.