

Use of ready-to-use (RTU) bags of gemcitabine and irinotecan: anticipating change.

Marie ROBERT¹, Ruben MEGHNAGI¹, Ornella GIULY¹, Dieynaba SANKHARE¹, Isabelle MADELAINE¹, Nathalie JOURDAN¹

¹ Centralized Preparation of Cytotoxic Unit, Pharmacy, Saint Louis Hospital (APHP, France)



INTRODUCTION



Difficulties in recruiting hospital pharmacy preparators



Referencing in March 2022: RTU bags from the pharmaceutical company SunPharma®

	IRINOTECAN	GEMCITABINE
STANDARD DOSES	240, 280 and 340mg	1400 to 2200 mg
RTU DOSE	270, 300 and 330mg	(every 200 mg)

MATERIALS & METHODS

- Revision of standard doses (SD)
- Estimating the impact of the new SD, retrospective study (from 06/01/22 to 06/03/22)
- Adapting IT tools Chimio® v5.9 and SD module
- Excel® extraction of the number of destruction events over 2 periods (January-March 2022 and 2023)
- Securing of attributions/reattributions

RESULTS

✓ Difference between Prescribed Dose (PD) and Standard Dose (SD)

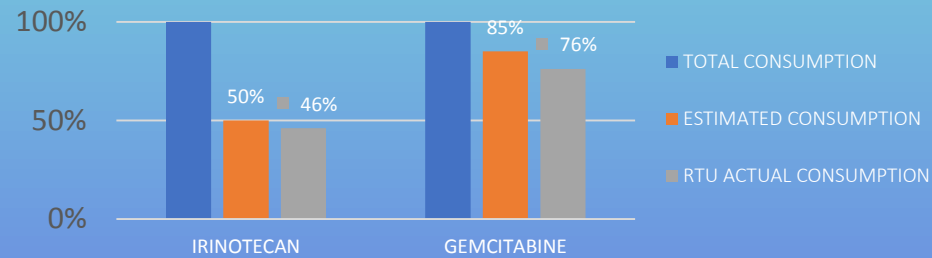
IRINOTECAN : Modified SD
(37 patients - 50% of the cohort)

GEMCITABINE : SD unchanged
RTU dose = SD



✓ Drafting of a **procedure**: anticipation of orders and stock monitoring (direct ordering)

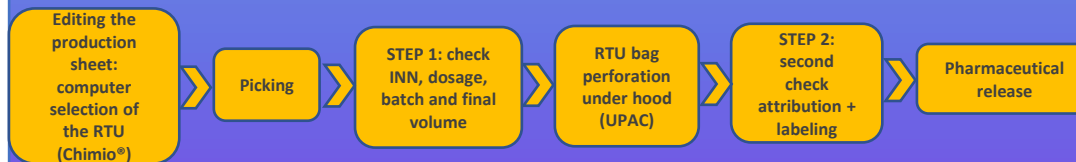
✓ Orders based on estimated consumption :



✓ Solvent modification (**Irinotecan**): **Glucose 5%**

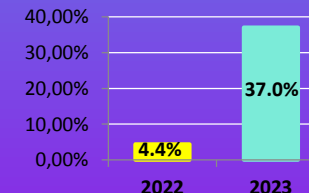
✓ **Chimio®**: **Adaptation of the fictitious volumes** (reconstitution and to-be-added) enabled the creation of products to create products different concentrations for the same INN (impossible with 5,9 version)

✓ **Implementation of the circuit:**



✓ Difference in stability between RTUs and magistral preparations (7 days after percutting in a safety cabinet VS 28 days)

- Difference in traceability of reattributions
- **Impact on the number of bags destroyed :**



DISCUSSION

RTUs cover the majority of gemcitabine preparations, and a considerable proportion of irinotecan preparations.

This new circuit is based on the pre-existing hospital preparation circuit.

After 1 year of use, the RTU circuit has become perfectly established in our unit.

A more adapted version of the software would make this circuit even more secure.