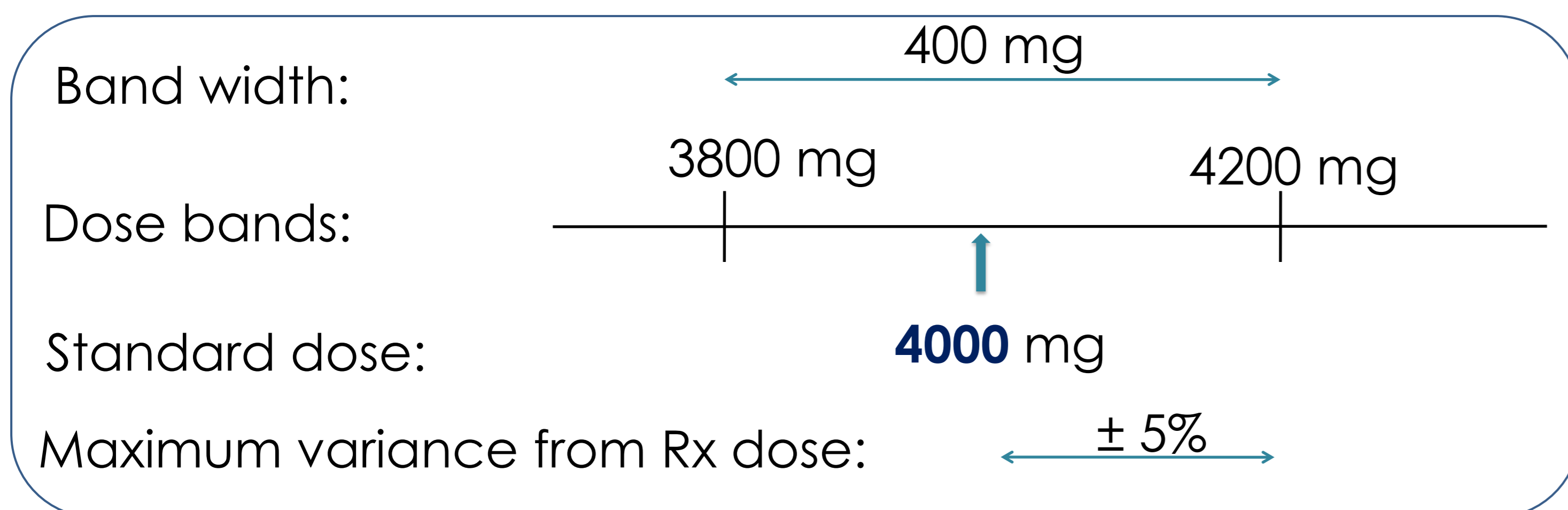


Interest of dose banding in the preparation of 5-FU infusors in ambulatory care

1. Background

Dose banding is a system where chemotherapy doses, calculated on BSA, are fitted to pre-defined dose ranges.



2. Purpose

With a view to optimizing the circuit of 5-FU infusors from prescription to administration, a **feasibility study** of dose banding was initiated by the Pharmacy Department. The objectives were 1) to shorten delivery deadlines, 2) to streamline production, 3) to decrease expired infusors.

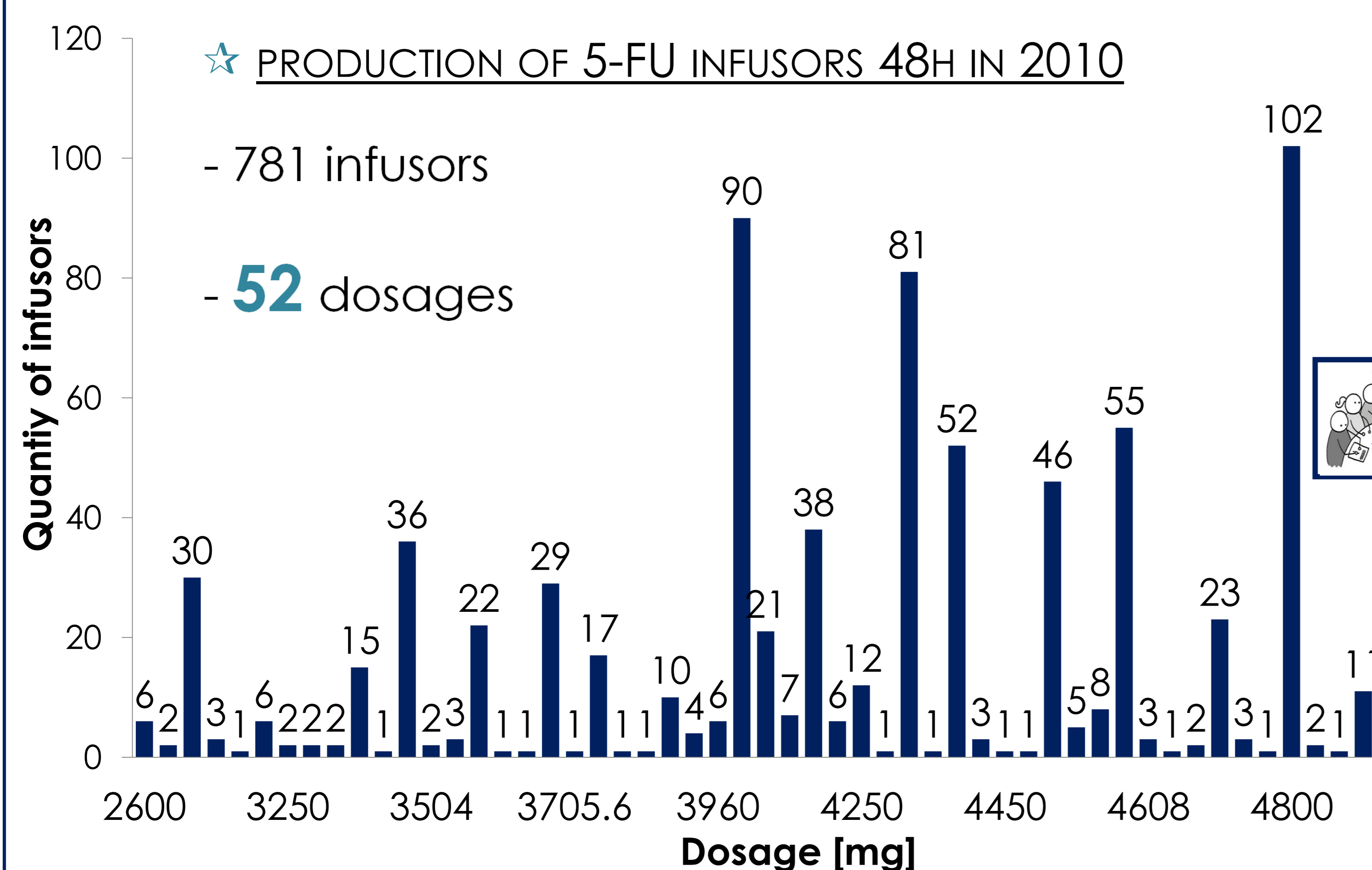
3. Method

- 1 **Feasibility study**
 - 1.1 Retrospective analysis of 2010's production
 - 1.2 Presentation of the concept to the medical staff
 - 1.3 Selection of standardised dosage
- 2 **Implementation** of dose banding

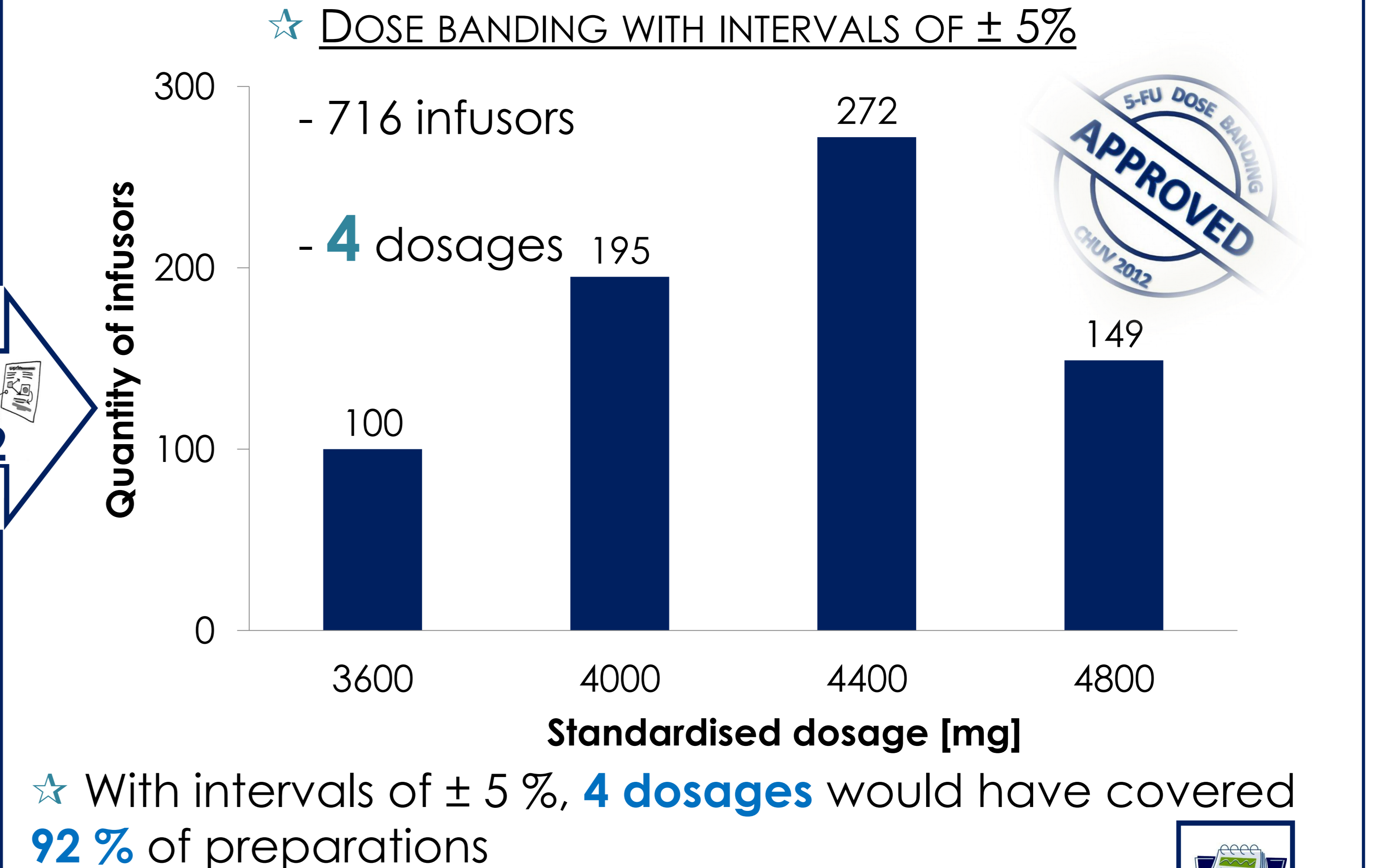
4. Results

In 2010, 837 5-FU infusors were produced for **132** patients including **91** different dosages. These infusors included 781 48-hour infusors (93%), 36 5.5-day infusors and 20 7-day infusors. THE RETROSPECTIVE ANALYSIS home in only on 48-hour infusors .

1.1 Retrospective analysis



1.3 Selection of standardised dosage



★ EXPIRED UNADMINISTRATED INFUSORS IN 2011

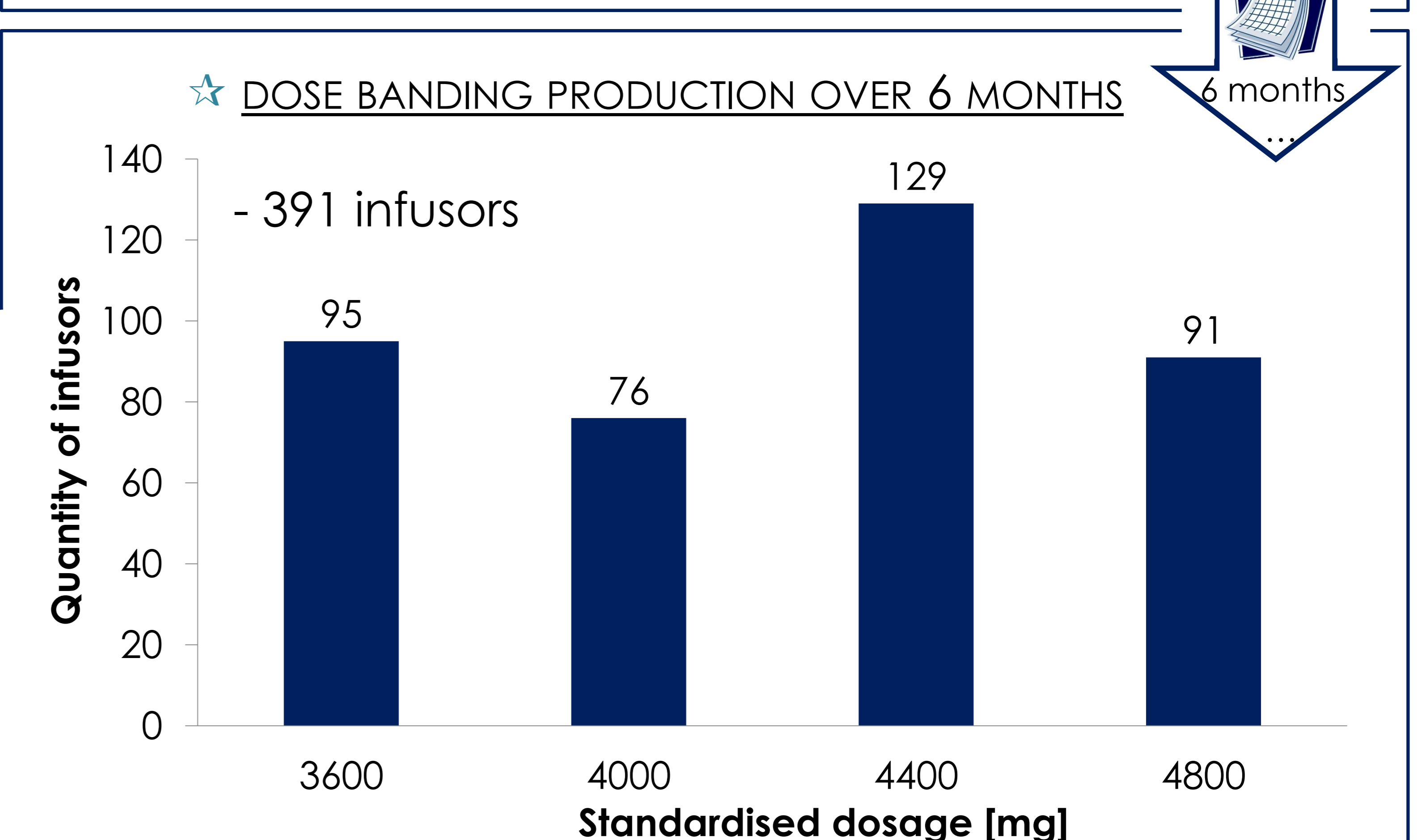
33 expired infusors (n=932, 3.5 %) were destroyed.

2. Implementation of dose banding : THE RESULTS

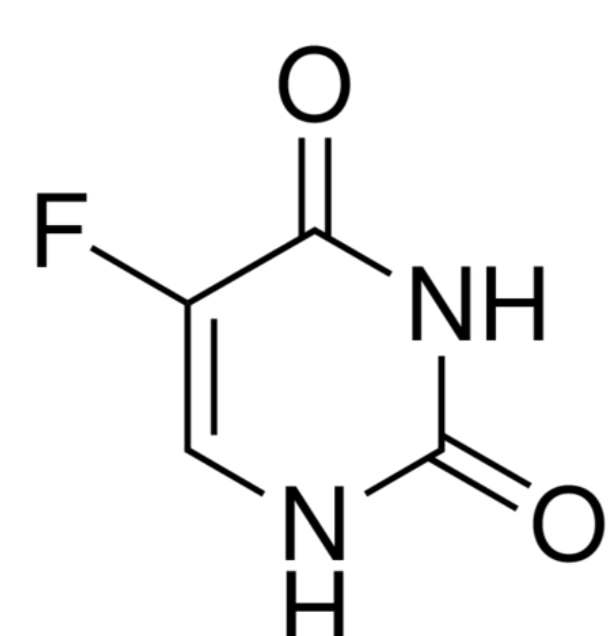
The study began in July 2012 with the computerization of treatment plans.

After **6 months** PRELIMINARY RESULTS are encouraging with :

- ★ 86,5% (n=384 over 444) of preparations covered
- ★ 391 infusors produced in 4 standardised dosages
- ★ 5 expired infusors (n=444, 1%) destroyed.



5. Discussion & Conclusion



- ✓ Physicochemical **STABILITY**
- + **FREQUENCY OF USE**
- + **REPETITIVENESS** of prescribed doses
- + **MODERATE COST**

= 4 tangible elements supporting the implementation of 5-FU dose banding.

This dose banding project with four standardised dosages (± 5 %) was **APPROVED** by the medical staff. Full results are being analysed after six months of implementation based on the three objectives outlined above.