

ECONOMICAL IMPACT THROUGH A CENTRALIZED PREPARATION UNIT

Delphine BAYLOT, Laure ALZIEU, Emilie SEGUI, Katalin TOTH, Michelle LEBAS-CERTAIN, Franck LE MERCIER

Pharmacy Department, Ambroise-PARE, University Hospital (Assistance Publique-Hôpitaux Paris), 92100 Boulogne-Billancourt

Introduction and Objectives

- ✓ Chemotherapies preparation in Ambroise-Paré Hospital :
 - ☞ Before 2003 : in medical units by nurse underlaminar flow hood (LFH)
 - ☞ Since 2004 : in a Centralized Preparation Unit (CPU) within an **isolator**, only for Hepato-Gastro-Enterology department
 - Pharmacy team = 1 pharmacist + 1.5 technician
 - CPU = quality system allowing
 - to conserve expensive drugs vials remaining for several patients
- ⇒ HOW MUCH COULD WE SAVE OVER THE YEAR 2004 ?

Methods

Each day after production, the amount of remaining or destroyed milligrams of each drug are collected in a table.

Each month, saved milligrams are added, and the financial amount (euros/USD) evaluated.

Results

In 2004 in the CPU, activity and costs dramatically increased because of an augmentation of the oncology activity in our institution :

- ✓ 3152 chemotherapies (ie 13 preparations/day)
- ✓ total drugs cost : 471 100 USD (392 600 Euros)
- ✓ and **35 250 USD saved** (figure 1)

References: Legat C & al J Pharm Clin 2003
 Limat S & al PWS 2001
 Escoms MC & al PWS 1996 Disclosure

Figure 1 : Principal Drugs Saved in the CPU

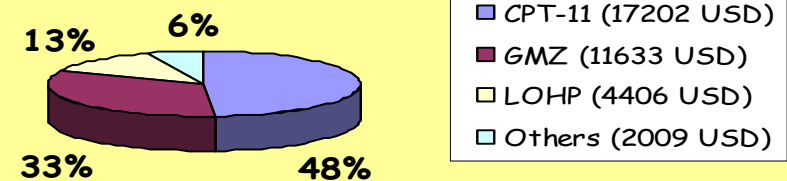
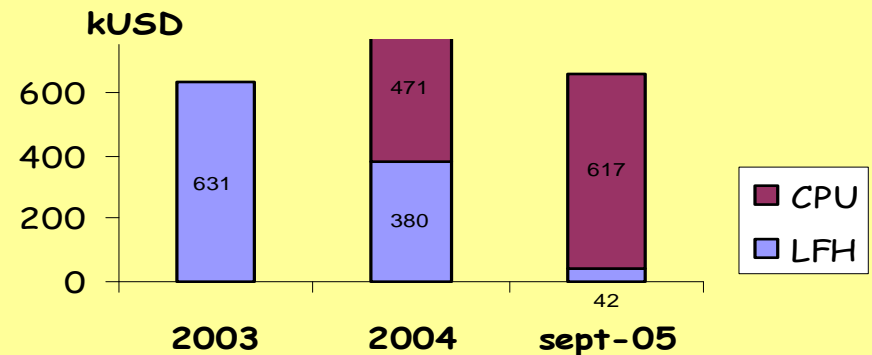


Figure 2 : Costs for chemotherapy



Conclusions

- ✓ Main CPU advantage : accuracy/sterility & low rates of medication errors for patients
 - and safety for nurses & pharmaceutical teams.
- ✓ In comparison with preparation in care units, the CPU realized an economical benefit of 7.5% of total cost.

Although a part of this amount is consumed by the quality system of this pharmaceutical unit (microbiological controls, maintenance,...), other part could serve to pay a second full-time technician or half a pharmacist more, in order to increase our production (+ 25% in 2005 !).