

OBJECTIVES

Hospitals pharmacies units (HPU) are responsible for preparing antineoplastic agents which include cytotoxics and monoclonal antibodies (mAbs).

Between 2017 and 2022 :

- The overall number of sessions involving injectable anticancer drug administration is increasing.
- AP-HP's spending for injectable anticancer drugs administered during sessions has nearly doubled reaching nearly €400M in 2022.

The study aims to take stock of HPU activity in relation to medical staff ratios for 5,000 preparations.

METHODS

- Annual summary tables provided by the fourteen HPU of AP-HP for chemotherapy preparation activity.
- Internal order management software for spendings.
- Time horizon : 01/01/2017 → 31/12/2022

We compared the evolution of anticancer drug consumption and chemotherapy preparation activity in relation to the ratio of medical staff for 5,000 preparations.

RESULTS

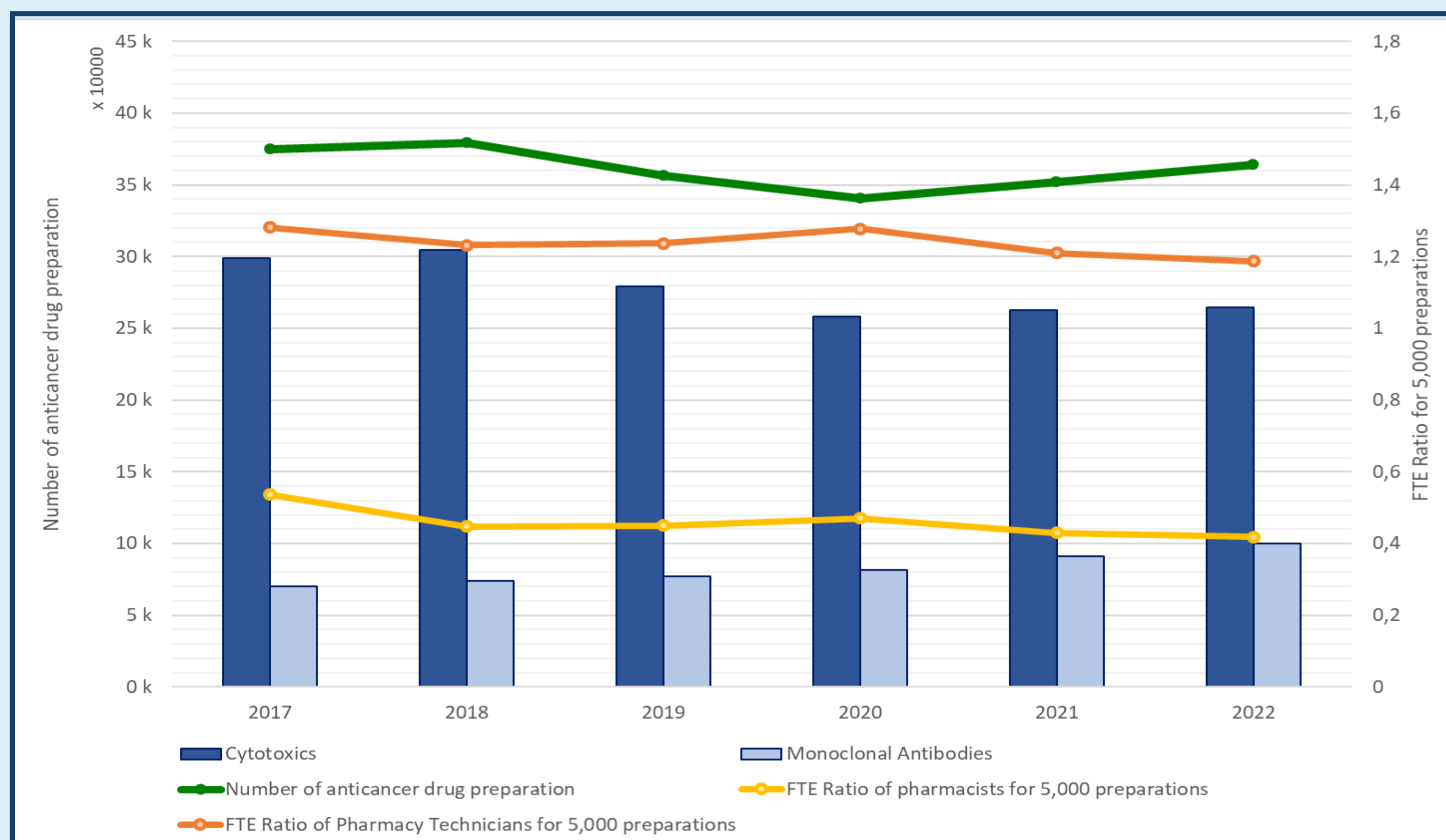


FIGURE 1 : DEVELOPMENTS IN ANTICANCER DRUG PREPARATION IN HPU IN RELATION TO THE FTE RATIO OF PHARMACIST AND PHARMACY TECHNICIANS

The full-time equivalent (FTE) ratio of pharmacists and pharmacy technicians for 5,000 preparations fell from 0,54 and 1,28 to **0,42** and **1,19** respectively. Due to a staff shortage, part of the mAbs production is done directly in the unit care by nurses (Fig. 1).

AP-HP's spending for drug administered during sessions increased (Fig. 2) :

- From 200M€ to **396M€** for injectable anticancer drug.
- From 144M€ to **290M€** for monoclonal antibodies.

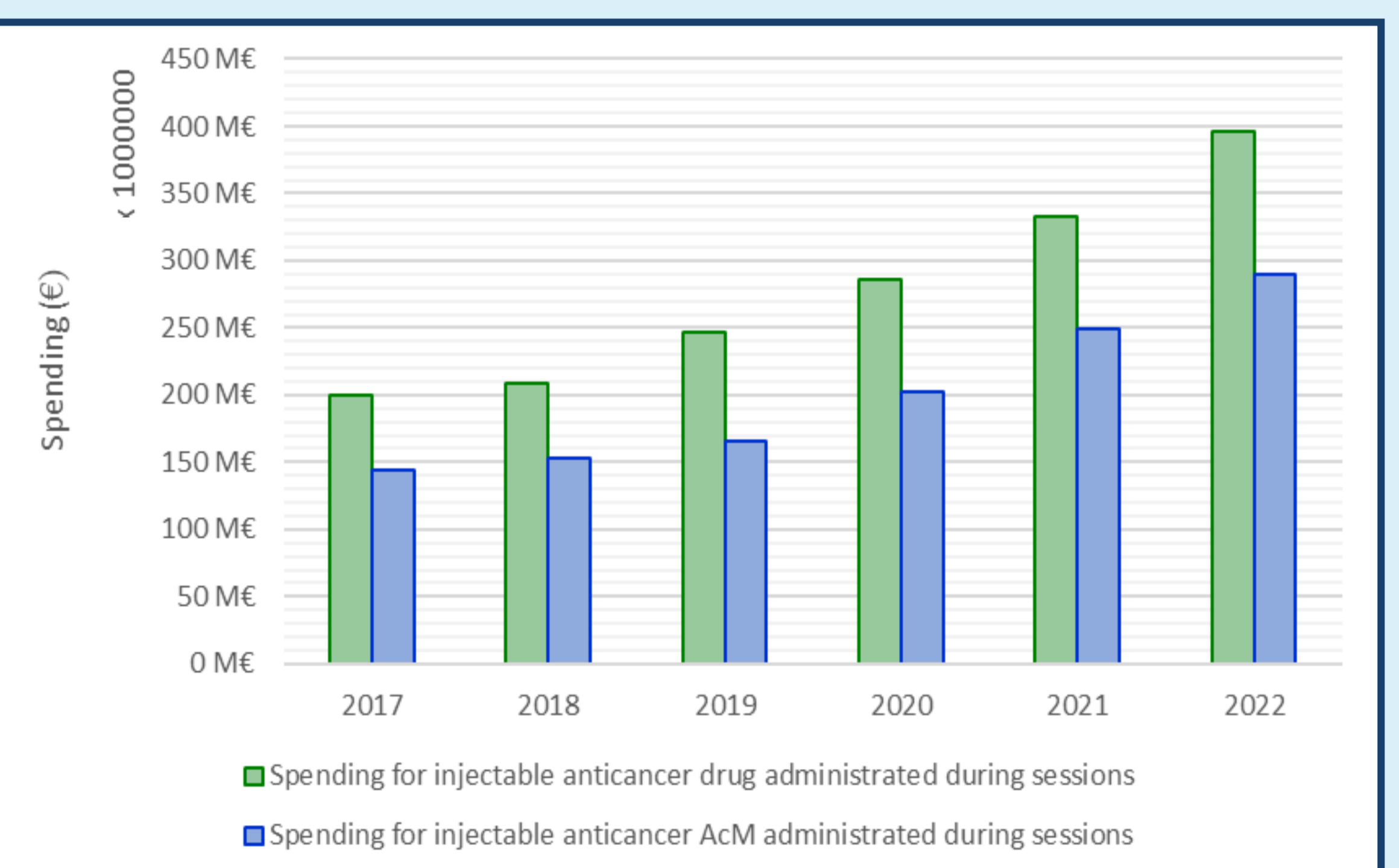


FIGURE 2 : TRENDS IN EXPENDITURE OF INJECTABLE ANTICANCER DRUGS AND MONOCLONAL ANTIBODIES

DISCUSSIONS AND CONCLUSIONS

The FTE ratio for medical staff reduced between 2017 and 2022. This trend does not reflect the increasing number of temporary workers, and the training time they need/receive.

This contrasts with the increase in the number of preparations, particularly of mAbs, and the rise in spending on these drugs.