

Financial assessment of intravenous mixture preparation

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Background

Intravenous therapy generates important economic costs so we studied two different working options

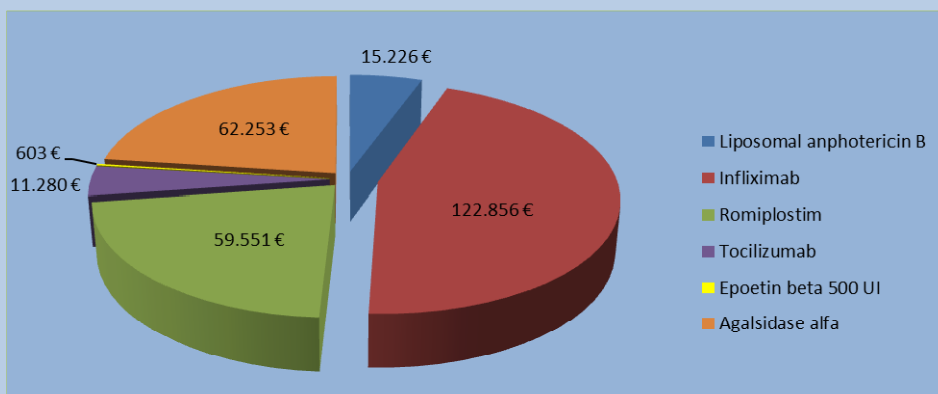
Objectives

- To evaluate the saving that intravenous mixtures preparation, by a centralized way in the pharmacy service, supposed during 2011 in our hospital

Methods

- Compare the real observed costs due to preparing the intravenous mixtures in the pharmacy service and the expected costs if the mixtures were prepared in the hospitalization wards by using complete vials for each patient and dosage, discarding the remaining dose.
- Focused in the intravenous mixture area selecting those drugs which need to be handled for their correct dosage and those used un paediatric and neonatology area due to the low dose needed and its variability.
- Excluded those drugs used in oncology and nutrition area.

Results



- From a total of 4053 preparations during 2011, we generated a total of **271.770 €** saving.
- Median saving:
 - **67 € /intravenous mixture**
 - **744 € /day**

Conclusions

Centralization of intravenous mixtures allows us to increase efficiency and generate important economic savings, and specially increase the healthcare quality, because it allows us to realize the pharmacotherapeutic monitoring and avoid medication errors. This practice also ensures drug's correct handling that helps to keep its physicochemical and microbiological stability.