

Background

In a paediatric hospital often face the lack of commercially available medicines suitable or even licensed for their use in paediatrics. As a consequence, paediatric medicines should be appropriately designed for the target age group. Compounding is the main solution, so the compounding area becomes essential in this kind of centres.

Aim and objectives

To highlight the importance of compounding for obtaining children-friendly dosage forms and formulations in a referral paediatric hospital

Material and Methods

All compounded forms included in the pharmacy formulary were identified and a research was conducted to ensure that a suitable or licensed commercial product for paediatric patients was unavailable neither in our national nor international market.



Results

- 99 compounded medicines

Compounding form	Different active substances formulated	Prepared units per year
Oral liquid	52	8300
Solid	16	25000
Parenteral administration	12	1879
Ocular topical	5	524
Topical	13	1535
Rectal	1	22

Commercially available with not child-friendly formulation (dosage forms, administration volume, dosage form size)	Inappropriate excipient for children	Available for a different treatment indication	For Stability/sterility requirements
81	2	3	13

Conclusions

The development of age-appropriate and acceptable paediatric dosage forms is a complex and challenging process, as it is necessary to have in consideration children's acceptability and preferences for different formulations as well as the use of adequate excipients for this population.

