

# SAFETY IMPROVEMENT IN PAEDIATRICS: ASSISTED PRESCRIPTION OF INTRAVENOUS MIXTURES

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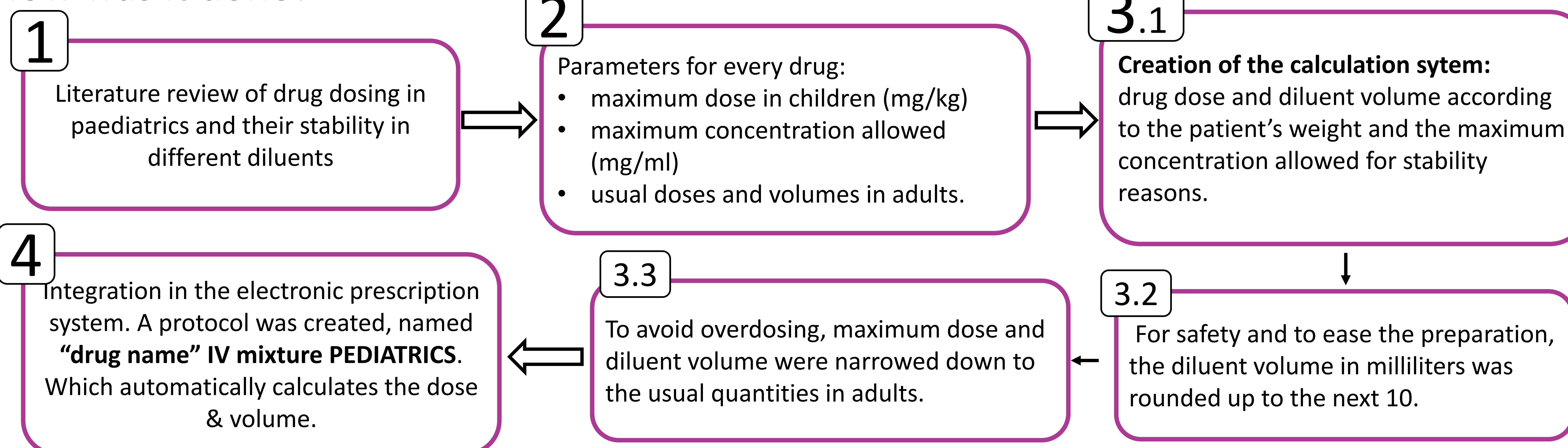
## What was done?

- Development of an assisted prescription system of intravenous mixtures adapted to paediatric patients in which both the drug dose and the diluent volume are automatically calculated according to the patient's weight

## Why was it done?

- Intravenous drugs in the paediatric population bring up additional issues than the usual in adults.
- Need to adapt drug's dose and also volume (adaptation to the reduced fluids requirement without jeopardising the stability of the mixture).
- Thus, IV drug prescription in paediatrics implies a higher risk of medication errors.
- This new prescribing system simplifies prescription and reduces risks.

## How was it done?



## What has been achieved?

- Active for 38 drugs.
- 910 IV mixtures prescribed with this method from July 2018 to April 2019

Anatomical Therapeutic Chemical Classification System (ATC)	Number of prescriptions
A02 Drugs for acid related disorders	39
J01 Antibacterials for systemic use	287
J02 Antimycotics for systemic use	3
J05 Antivirals for systemic use	8
A04 Antiemetics and antinauseants	175
N02 Analgesics	395
N03 Antiepileptics	3

Table 1. Amount of prescriptions according to the ATC classification

## What next?

- This method could be implemented in other electronic prescription programmes.
- The system must be updated by the Pharmacy Department, introducing new drugs and constantly reviewing stability databases, posology regimens, and information regarding dilution of parenteral drugs.



<https://www.eahp.eu/gpis/safety-improvement-paediatrics-assisted-prescription-intravenous-mixtures>