



Impact of Clinical Decision Support on Pediatric Drug Dose Prescribing

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Want to try PEDeDose?

Username: info@pedeus.ch

Password: [pededose4y0u](#)



About PEDeDose

Drug dosing in pediatrics requires an individualized approach. The dosage is mainly calculated based on the child's body weight. Therefore, it is not surprising that calculation errors, are among the most frequent causes of serious dosing errors. To prevent this, we have developed PEDeDose – a clinical decision support software. PEDeDose, is a medical device class IIa according to the European Medical Device Regulation and the PEDeus Ltd. its certified developer. One of the key strengths of PEDeDose is the possibility of an integration into a clinical information system. This has already been implemented in several Swiss hospitals.

Results - Dose calculation study



77% less errors



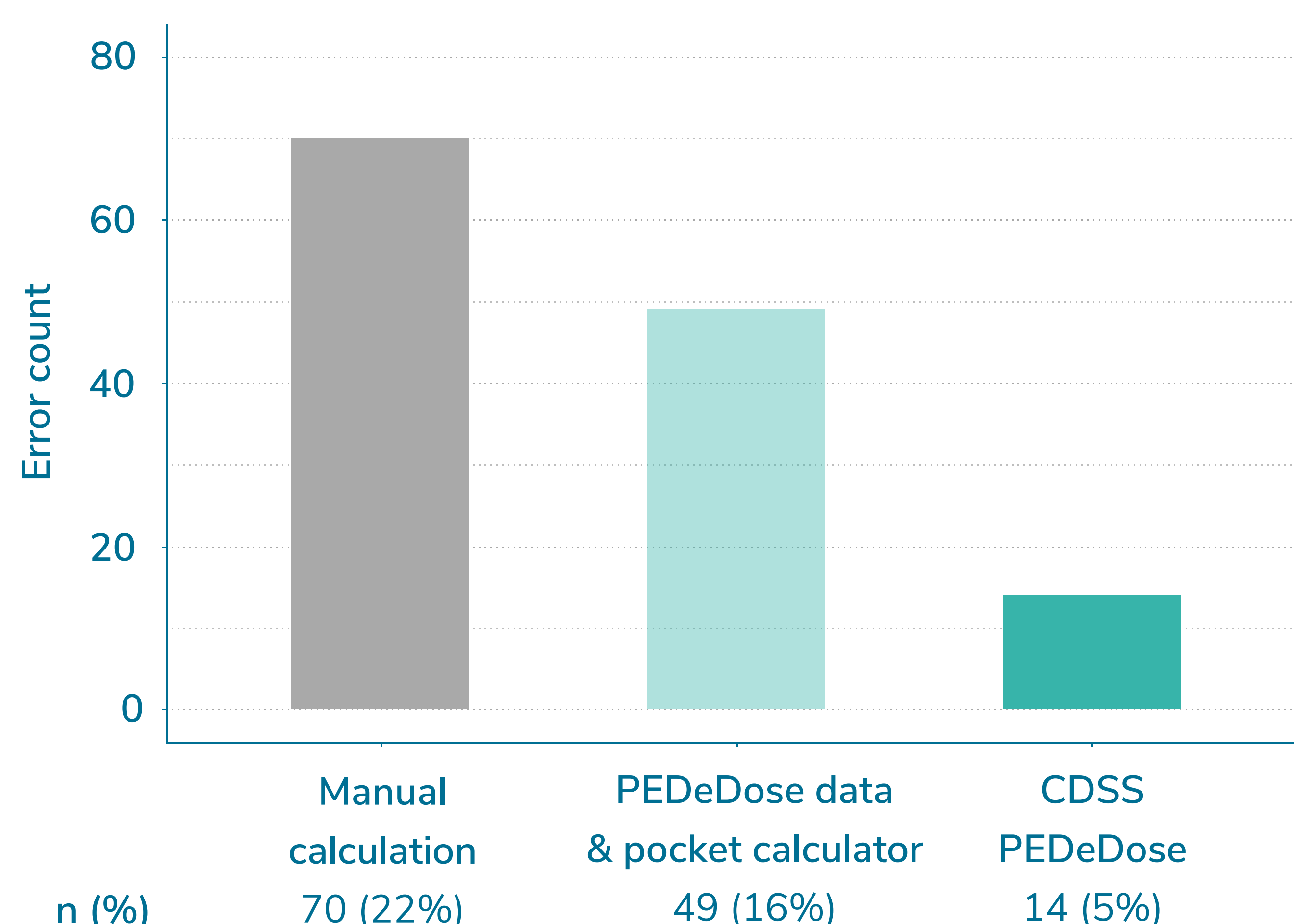
2x faster calculation

In a simulation study, we compared the number of dose calculation errors and the calculation time by healthcare professionals while using the CDSS PEDeDose versus calculation with a pocket calculator using the PEDeDose data only or the label information. The results were unambiguous – the use of the CDSS PEDeDose dramatically reduced the number of erroneous calculations entered. Even more so, the time needed for the calculation was halved. Interestingly, using only the structured data from PEDeDose but with a pocket calculator was not sufficient in reducing calculation errors and time.

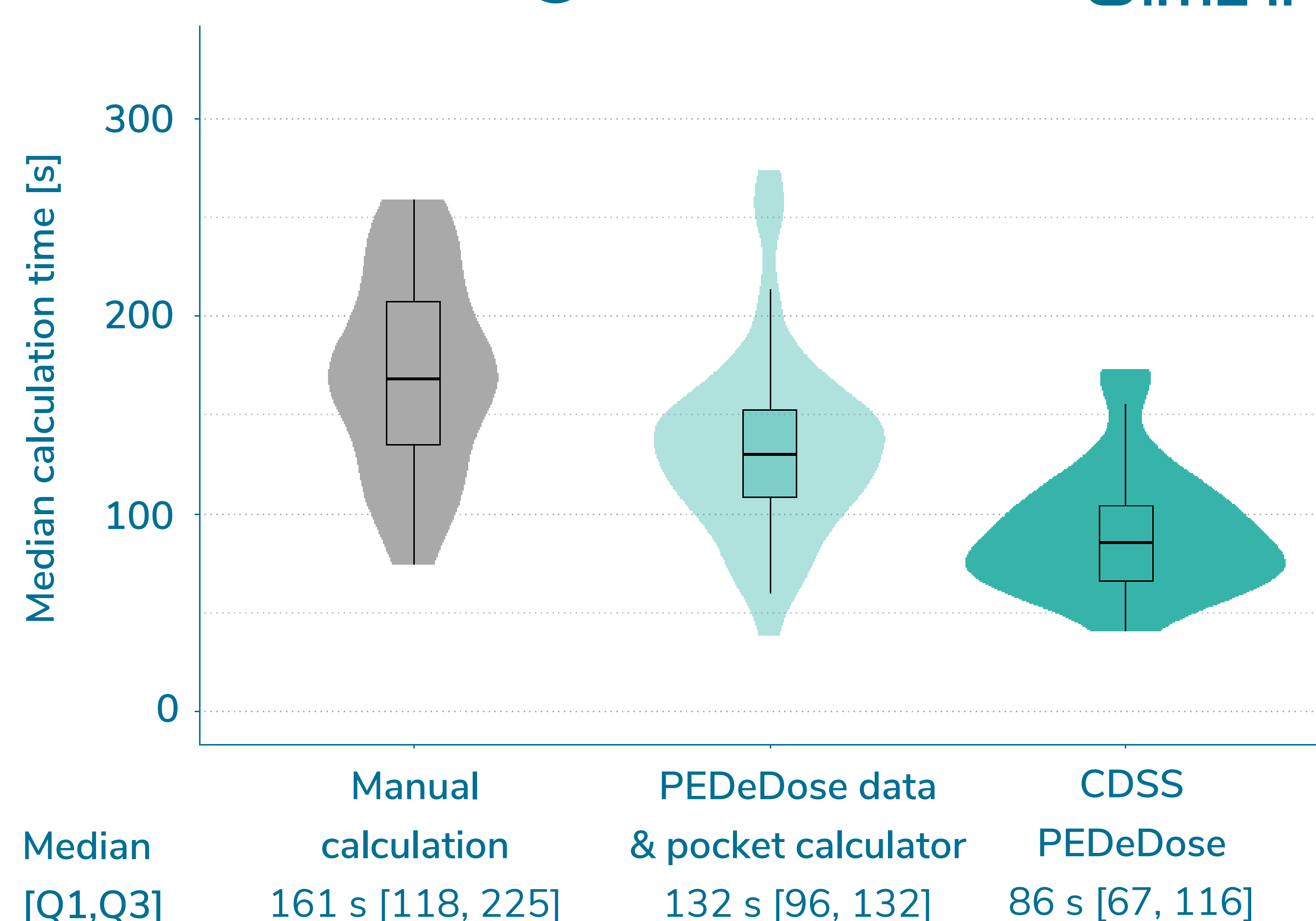
Check out our research



Error counts

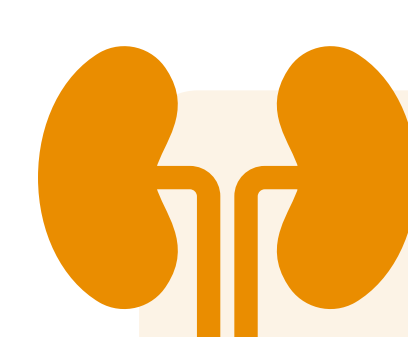


Calculation time



Coming soon – PEDeDose extensions

In 2022, the quality commission of the Federal Institute of Public Health (BAG-EQK) acknowledged the importance of PEDeDose and supports the development of additional PEDeDose modules. Soon, PEDeDose will additionally support healthcare professionals in even more complex medical situations.



Kidney impairment

Soon, a new PEDeDose module will be available, which allows to adjust calculated dosages to the patient's kidney function. Upon entering lab values or the GFR, PEDeDose will calculate an adjusted dosage.



Parenteral preparation

A parenteral preparation module is currently being developed. Based on an individually calculated dosage, it will specifically provide comprehensive information for the safe preparation and administration of parenterals.



Emergency app

We are currently developing a mobile app for emergency care staff. The app is designed so that it can be used both in hospitals and on the go. The app will not be solely available for children but also for adult patients.

