

## Special Issue

# Neonatal Clinical Pharmacology

### Message from the Guest Editors

Pharmacotherapy is a very powerful intervention to improve outcome, and this is also true in neonates. The prescription of a given drug should result in a safe and effective intervention to treat or prevent a specific disease or risk in an individual patient or population while avoiding disproportional side-effects. Clinical pharmacology supports these aims in predicting drug-related (side)-effects driven by pharmacokinetics (PK) and pharmacodynamics (PD). The dynamic changes related to maturation and growth in newborns result in a unique setting with extensive variability. Non-maturational changes (such as disease characteristics, drug–drug interactions, pharmacogenetics, and lactation-related exposure) further add to this variability. This is a growing and active field of clinical research, with several reports on PK, PD, pharmacovigilance and -safety, and pharmaco-epidemiology having been published. This clinical field is further supported by novelties in the methods that are currently available (low-volume sample analysis, population PK analysis, physiology-based PK).

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### Guest Editors

Prof. Dr. Karel Allegaert

Dr. Nadir Yalcin

Dr. Robert B. Flint

Dr. Sinno H.P. Simons

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### Deadline for manuscript submissions

closed (1 April 2024)



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## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute a research article or comprehensive review for consideration and publication in *Children* (ISSN 2227-9067). *Children* is an open access journal—research articles, reviews, and other content are published online immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. The journal focuses on sharing clinical, epidemiological, and translational science relevant to children's health. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Paul R. Carney

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