

# Special Issue

## Advances in Intensive Care for Critically Ill Neonates: Clinical Diagnosis and Treatment (Second Edition)

### Message from the Guest Editor

Critically ill neonates born prematurely and at term represent a major challenge for healthcare professionals. Critically ill neonates are infants with a broad spectrum of diseases and disorders that emerge pre-, peri-, or postnatally and who need life support treatment in the neonatal intensive care unit (NICU). The NICU is a place where initial and final diagnoses, carried out many times with the involvement of an interdisciplinary team, are confirmed and treatment is ongoing. Treatment options involving modern life support systems (mechanical ventilation, extracorporeal membrane oxygenation, blood purification techniques, etc.), surgeries, and the most advanced medicines are also available in the NICU. The treatment and prevention of pain, combatting nosocomial infections, and total parenteral nutrition are also of great importance. Healthcare professionals' support for the families of critically ill neonates is a prerequisite for the completeness of the care of critically ill neonates. Additionally, different ethical issues may arise during intensive treatment in the NICU.

---

### Guest Editor

Prof. Dr. Stefan Grosek

1. Neonatology Section, Department of Perinatology, Division of Obstetrics and Gynecology, University Medical Centre Ljubljana, Šrajmerjeva 3, 1000 Ljubljana, Slovenia
2. Department of Paediatrics, Faculty of Medicine, University of Ljubljana, Bohoričeva 20, 1000 Ljubljana, Slovenia
3. Department of Medical Ethics, Faculty of Medicine, University of Ljubljana, 1000 Ljubljana, Slovenia

---

### Deadline for manuscript submissions

30 June 2026



## Children

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 3.8  
Indexed in PubMed



[mdpi.com/si/252742](https://mdpi.com/si/252742)

*Children*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[children@mdpi.com](mailto:children@mdpi.com)

[mdpi.com/journal/  
children](https://mdpi.com/journal/children)





# Children

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 3.8  
Indexed in PubMed

---



[mdpi.com/journal/  
children](http://mdpi.com/journal/children)



## 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.

---

### Editor-in-Chief

Prof. Dr. Paul R. Carney

Departments of Child Health and Neurology, University of Missouri, 400 Keene Street, Columbia, MO 65211, USA

---

### Author Benefits

#### Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, and other databases.

#### Journal Rank:

JCR - Q2 (Pediatrics) / CiteScore - Q2 (Pediatrics, Perinatology and Child Health)