

Special Issue

Diagnosis and Management of Newborn Respiratory Distress Syndrome

Message from the Guest Editor

The neonatal survival of preterm babies is still improving thanks to modern technologies and newly targeted therapy approaches to pulmonary immaturity and surfactant deficiency. Respiratory Distress Syndrome (RDS) prevention starts during pregnancy, considering all the possible interventions aiming to prolong the gestation of preterm fetuses, and continues after birth. The evidence-based lung-protective strategies include the initiation of non-invasive respiratory support from birth, the judicious use of oxygen, early surfactant administration, caffeine therapy, cardiovascular assessment, and the avoidance of mechanical ventilation where possible. Lung ultrasound has replaced conventional radiology in the diagnosis of RDS, allowing neonatologists to act quickly and avoid unnecessary radiation exposure to the baby. The modern approach to RDS should be personalized, taking a physiopathology and critical care perspective, which can only be built by developing cross-disciplinary awareness in order to avoid chronic lung disease.

Guest Editor

Dr. Luca Pierri

AORN Santobono-Pausilipon, Neonatal Intensive Care Unit, Naples, Italy

Deadline for manuscript submissions

closed (25 November 2025)



Children

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.8
Indexed in PubMed



mdpi.com/si/194335

Children
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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](https://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)