

Special Issue

Pediatric Hypoplastic Left Heart Syndrome: Diagnosis, Treatment and Management

Message from the Guest Editors

Hypoplastic left heart syndrome (HLHS) is a spectrum of complex congenital left-sided malformations sharing the common feature of an underdeveloped left ventricle, which is inadequate to support systemic circulation. Pathological entities of HLHS may include variable combinations of mitral atresia or hypoplasia, aortic atresia or hypoplasia, and a hypoplastic or interrupted aortic arch. Treatment options for HLHS are critically dependent on the degree of development of the left ventricle. While severely hypoplastic LV needs single ventricle-staged palliation, mild hypoplasia may allow for biventricular repair. This Special Issue aims to provide a forum for contemporary research focusing on the fascinating and challenging spectrum of HLHS, particularly focusing on novel insights about diagnosis and emerging surgical options. We welcome research focusing on all aspects of diagnosis, treatment, and management of HLHS, from neonatal age to young adults. Keywords

- hypoplastic left heart syndrome
- borderline left ventricle
- single-ventricle staged palliation
- left ventricle recruitment
- neonatal cardiac surgery

Guest Editors

Dr. Lilia Oreto

Department of Clinical and Experimental Medicine, University of Messina, 98122 Messina, Italy

Dr. Paolo Guccione

Department of Pediatric Cardiology and Cardiac Surgery, Bambino Gesù Children Hospital, 00146 Rome, Italy

Deadline for manuscript submissions

closed (1 November 2024)



Children

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.8
Indexed in PubMed



mdpi.com/si/175122

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)