

A Comprehensive Review of Child Health: Current Challenges and Future Directions

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How to cite this article: Mishra J. A Comprehensive Review of Child Health: Current Challenges and Future Directions. GFNPSS-IJMR 2026; 7:5:3431-3433

Submitted: 07 May 2026: **Accepted:** 17 May 2026: **Published:** 31 May 2026

Abstract

Sustainable development and global public health continue to depend heavily on child health. Millions of children around the world still struggle with health issues despite tremendous advancements in healthcare services, immunization programs, nutrition treatments, and disease preventive techniques. Childhood morbidity and mortality are still mostly caused by malnutrition, infectious diseases, poor access to healthcare, environmental risks, mental health conditions, and newly emerging non-communicable diseases. Child health outcomes are also impacted by socioeconomic disparities, fast urbanization, climate change, and technological advancements. Promising prospects for enhancing paediatric healthcare delivery and disease management are presented by recent developments in digital health technology, telemedicine, artificial intelligence, and precision medicine. This assessment looks at the state of child health today, the main issues influencing children's wellbeing, and potential paths forward for improving child healthcare systems around the world. In order to support children's optimal growth and development, the study places a strong emphasis on integrated healthcare approaches, preventive strategies, policy reforms, community involvement, and cutting-edge technologies.¹⁻³

Keywords: Public health, healthcare access, non-communicable diseases, paediatric care, child nutrition, immunization, mental health, child development, and global health.

Introduction

Every society is built on its children, and future social, economic, and developmental advancements are greatly influenced by their health. From infancy through puberty, a child's physical, mental, emotional, and social well-being are all included in their overall health. Adequate nourishment, safe surroundings, educational opportunities, psychological support, and access to high-quality healthcare services are all included

in this idea, which goes beyond the absence of disease.¹

Globally, child mortality rates have significantly decreased during the last few decades thanks to increased immunization rates, better maternal healthcare, improved sanitation, and efficient infectious disease treatment.

Although under-five mortality has significantly decreased since 1990, millions of children are still impacted by avoidable illnesses and health

disparities, especially in low- and middle-income nations, according to global health reports.²

Numerous factors, such as genetics, environmental conditions, family income, parental education, healthcare accessibility, diet, and social support networks, have an impact on children's health. Growth, development, cognitive functioning, and future health outcomes are all greatly impacted by these factors, which interact throughout childhood.³

Child Health: Global Perspective

International public health agendas continue to place a high premium on child health. Goal 3 of the Sustainable Development Goals (SDGs) places a strong emphasis on lowering avoidable infant and child mortality. Although many nations have made notable strides, differences between developed and developing nations still exist.⁴

Malnutrition, infectious infections, poor living circumstances, and limited access to healthcare continue to plague many youngsters. Poverty, violence, displacement, and environmental degradation frequently exacerbate these issues. Therefore, in order to address the socioeconomic and medical determinants of child health, comprehensive interventions are needed.⁵

Major Challenges in Child Health

1. Malnutrition and Nutritional Disorders

One of the leading causes of childhood illness and mortality globally is still malnutrition. Major nutritional issues impacting children's growth and development include undernutrition, stunting, wasting, micronutrient deficiencies, and childhood obesity. Early childhood malnutrition can impede cognitive development, reduce immunity, and make a kid more vulnerable to diseases.⁶

Millions of children worldwide continue to suffer from iron deficiency anaemia, vitamin A deficiency, iodine deficiency diseases, and protein-energy malnutrition. The prevalence of childhood obesity and related metabolic problems has increased concurrently with rising processed food intake and sedentary lifestyles.⁷

2. Infectious Diseases

Infectious infections continue to be a leading cause

of sickness and mortality in children despite improvements in preventive treatment. Children in situations with minimal resources continue to be disproportionately affected by pneumonia, diarrhoea, malaria, tuberculosis, measles, and respiratory diseases.⁸

Although vaccination programs have greatly decreased the burden of disease, there are still issues in some areas with vaccine hesitancy, poor healthcare infrastructure, and restricted access to immunization services.⁹

3. Mental Health Challenges

The mental health of children has become a vital public health issue. Children and adolescents are increasingly being diagnosed with anxiety disorders, depression, behavioural problems, attention-deficit/hyperactivity disorder (ADHD), and autism spectrum disorders.¹⁰

Mental health issues are caused by a number of factors, including stress in the family, pressure to perform well in school, exposure to social media, bullying, negative childhood experiences, and financial difficulties. Improving long-term results requires early detection and intervention.¹¹

4. Non-Communicable Diseases

Non-communicable diseases (NCDs) are more common among youngsters worldwide. The burden of disease and medical costs are greatly increased by childhood obesity, diabetes mellitus, asthma, congenital cardiac conditions, and paediatric malignancies.¹²

Early screening programs, health education, and lifestyle changes are crucial tactics for controlling and preventing paediatric NCDs.¹³

5. Environmental and Climate-Related Risks

The health of children is becoming more and more threatened by environmental pollution and climate change. Children's respiratory, neurological, and general health are adversely affected by air pollution, contaminated water, harsh weather, heat waves, and exposure to harmful compounds.¹⁴

Due to their growing physiological systems and higher exposure compared to body size, children are especially sensitive. In order to save future

generations, healthcare systems must be climate resilient.¹⁵

Financial support and sponsorship: Nil

Conflicts of interests: There is no conflict of interest

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