

Paediatrics Evidence Update March 2023

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The Clinical Librarian team endeavours to find as much of the latest evidence in your clinical area as possible, however make no claim as to the exhaustive nature of the update.

For more specific areas of interest within Paediatrics we would recommend a literature search or KnowledgeShare bulletin.

BMJ Best Practice

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Contents (click title to view)

NICE Guidance	Other Guidance
Cochrane Systematic Reviews	Systematic reviews from other sources
Cochrane clinical answers	Primary Research
BMJ Best Practice	Paediatric health in the News
Online Resources	Electronic Journals
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Most recent guidance published:

No updates.

Other Guidance/Reports

[Asfotase alfa for treating paediatric-onset hypophosphatasia \[HST23\]](#)

[Genedrive MT-RNR1 ID Kit for detecting a genetic variant to guide antibiotic use and prevent hearing loss in babies: early value assessment \[HTE6\]](#)



Systematic Reviews and Research Protocols

[Methylphenidate for children and adolescents with attention deficit hyperactivity disorder \(ADHD\)](#)

[Systemic corticosteroid regimens for prevention of bronchopulmonary dysplasia in preterm infants](#)

[Ultrasound-guided arterial cannulation in the paediatric population](#)

[Zinc supplementation for preventing mortality, morbidity, and growth failure in children aged 6 months to 12 years](#)

Systematic reviews from other sources

A systematic review and meta-analysis of the relationship between T-lymphocytes and respiratory tract infection in children.

Aspergillus Sensitization and Allergic Bronchopulmonary Aspergillosis in Asthmatic Children: A Systematic Review and Meta-Analysis.

Association between food additives and prevalence of allergic reactions in children: a systematic review.

Associations between chronic stress and hair cortisol in children: A systematic review and meta-analysis.

Child and adolescent anxiety as a risk factor for bipolar disorder: A systematic review of longitudinal studies.

Comparative Effectiveness and Safety of Antibiotic Prophylaxis During Induction Chemotherapy in Children with Acute Leukaemia: A Systematic Review and Meta-analysis.

Comparison of paediatric emergency department visits for attempted suicide, self-harm, and suicidal ideation before and during the COVID-19 pandemic: a systematic review and meta-analysis.
Corticosteroids in childhood epilepsies: A systematic review.

Day Programs for children and adolescents with eating disorders: A systematic review.

Development of myocarditis and pericarditis after COVID-19 vaccination in children and adolescents: A systematic review.

Effects of non-pharmacological interventions on pain intensity of children with burns: A systematic review and meta-analysis.

Efficacy and safety of pharmacological interventions for managing sickle cell disease complications in children and adolescents: Systematic review with network meta-analysis.

Efficacy of Artificial Intelligence in the Categorisation of Paediatric Pneumonia on Chest Radiographs: A Systematic Review.

Fertility discussions and concerns in childhood cancer survivors, a systematic review for updated practice.

Global estimates and determinants of antituberculosis drug pharmacokinetics in children and adolescents: a systematic review and individual patient data meta-analysis.

In utero acetaminophen exposure and child neurodevelopmental outcomes: Systematic review and meta-analysis.

Incidence and characteristics of adverse events in paediatric inpatient care: a systematic review and meta-analysis.

Long-term full-scale intelligent quotient outcomes following pediatric and childhood epilepsy surgery: A systematic review and meta-analysis.

Management of pulmonary aspergillosis in children: a systematic review.

Optimal therapeutic recommendation for Clostridioides difficile infection in pediatric and adolescent populations: a systematic review and meta-analysis.

Pediatric herpes zoster ophthalmicus: a systematic review.

Prevalence and risk factor for long COVID in children and adolescents: A meta-analysis and systematic review.

Prevalence of masked hypertension and its association with left ventricular hypertrophy in children and young adults with chronic kidney disease: a systematic review and meta-analysis.

Robotic-assisted pyeloplasty in children: a systematic review of the literature.

Safety and Effectiveness of Magnesium Sulphate for Severe Acute Asthma Management Among Under-five Children: Systematic Review and Meta-analysis.

Seizures in children undergoing extracorporeal membrane oxygenation: a systematic review and meta-analysis.

Sensitivity and specificity of mid-upper arm circumference for assessment of severe acute malnutrition among children ages 6 to 59 months: Systematic review and meta-analysis.

Tests and Indices Predicting Extubation Failure in Children: A Systematic Review and Meta-analysis.

The management of thoracobiliary fistulas in children: a systematic review.

The Value of the Alvarado Score for the Diagnosis of Acute Appendicitis in Children: A Systematic Review and Meta-Analysis.

The Volume of Breast Milk Intake in Infants and Young Children: A Systematic Review and Meta-Analysis.

Treatment with methylphenidate and the risk of fractures among children and young people: a systematic review and self-controlled case series study.

Tumour necrosis factor (TNF) antagonist therapy for paediatric inflammatory bowel disease: A systematic review.

Voice Parameters in Children With Cochlear Implants: A Systematic Review and Meta-Analysis.



This month's clinical questions are...

For adults and children living in low- and middle-income countries, how effective are sanitation interventions for preventing diarrhea?

For children with myopia, how do optical interventions compare for slowing myopia progression?

How does intravenous immunoglobulin (IVIG) plus acetylsalicylic acid (ASA) compare with ASA alone for treating Kawasaki disease?

How does prednisone affect renal outcomes in children with immunoglobulin A vasculitis (IgAV)?

Primary Research

A Randomized, Double-Blind, Controlled Trial of Percutaneous Tibial Nerve Stimulation With Pelvic Floor Exercises in the Treatment of Childhood Constipation.

Acceptability of multiple coated mini-tablets in comparison to syrup in infants and toddlers: a randomised controlled study.

Assessment of quality of life after laparoscopic GERD surgery in children: a prospective study.

Development of an evidence-based care bundle protocol for preventing falls in hospitalized children: Delphi study and trial test.

Effectiveness of Intranasal Mometasone Furoate vs Saline for Sleep-Disordered Breathing in Children: A Randomized Clinical Trial.

Etiology and outcomes of acute kidney disease in children: a cohort study.

Global caregiver perspectives on COVID-19 immunization in childhood cancer: A qualitative study.

Growth hormone treatment and the risk of adolescent scoliosis: A large matched cohort study.

Hyperfibrinogenemia and hyponatremia as predictors of perforated appendicitis in children: A retrospective cohort study.

Immune thrombocytopenia in infants: a retrospective study with comparison to toddlers.

Impact of a multifaceted early mobility intervention for critically ill children - the PICU Up! trial: study protocol for a multicenter stepped-wedge cluster randomized controlled trial.

Incidence and Factors Associated with Acne in Transgender Adolescents on Testosterone: A Retrospective Cohort Study.

Knee pain as a reason for referral to a paediatric rheumatologist: A retrospective study.

Long COVID-six months of prospective follow-up of changes in symptom profiles of non-hospitalised children and young people after SARS-CoV-2 testing: A national matched cohort study (The CLoCk) study.

Long-term efficacy, safety, and tolerability of secukinumab in children and adolescents with severe chronic plaque psoriasis: Two-year results from a Phase III double-blind, randomised controlled trial.

Measurable Residual Disease and Fusion Partner Independently Predict Survival and Relapse Risk in Childhood *KMT2A*-Rearranged Acute Myeloid Leukemia: A Study by the International Berlin-Frankfurt-Münster Study Group.

Occult ischemic bone lesions in children with sickle cell disease: A study of prevalence.

Patient blood management in critically ill children undergoing cardiac surgery: A cohort study.

Performance of QuantiFERON-TB Gold Plus assays in paediatric tuberculosis: a multicentre PTBNET study.

Predictors of Adherence to Short-Course Probiotics Among Children with Gastroenteritis who are Enrolled in a Clinical Trial.

Randomised controlled trial of melatonin for paediatric functional abdominal pain disorders.

Response to vitamin D replacement therapy in obese children and adolescents with vitamin D deficiency: a randomized controlled trial.

The effects of LactoCare synbiotic administration on chemotherapy-induced nausea, vomiting, diarrhea, and constipation in children with ALL: A double-blind randomized clinical trial.

Trial of Hybrid Closed-Loop Control in Young Children with Type 1 Diabetes.

BMJ Best Practice

Athens is required for off-site access to BMJ Best Practice

Topic: [Anorexia nervosa](#)

Topic: [Assessment of abdominal pain in children](#)

Topic: [Atypical genitalia in neonates](#)

Topic: [Neonatal jaundice](#)

Paediatrics in the News

<https://www.england.nhs.uk/news/>

[NHS treats hundreds with gaming disorders](#)

Online Resources

[BestBETs](#) - BETs bring the evidence one step closer to the bedside, by providing answers to very specific clinical problems, using the best available evidence.

[British National Formulary \(BNCF\) for Children](#)

[Children and Young People](#) – Government Policy

[The Royal Marsden Manual of Clinical Procedures](#) – available via your Athens login

Journals & table of contents alerts

The Clinical Librarian team can help set up table of content alerts to the journal of your choice.

[Archives of Disease in Childhood](#)

[Paediatrics and Child Health](#)

[BMC Pediatrics](#)

[Nursing Children and Young People](#)

[Pediatric Nursing](#)

[Pediatrics](#)

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National Institute for Health Research (NIHR)



No updates.



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[Automated insulin delivery systems for young children with type 1 diabetes](#)

[Diagnostic criteria for myelin oligodendrocyte glycoprotein antibody-associated disease](#)

[International consensus guidelines for the use of automated insulin delivery systems in type 1 diabetes](#)

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