

Paediatrics Evidence Update May 2022

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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
UpToDate	



Most recent guidance published:

[COVID-19 rapid guideline: managing COVID-19 \[NG191\]](#)

Other Guidance/Reports

[Selumetinib for treating symptomatic and inoperable plexiform neurofibromas associated with type 1 neurofibromatosis in children aged 3 and over \[HST20\]](#)

[Vaccine uptake in under 19s \[QS145\]](#)



Systematic Reviews and Research Protocols

[Corticosteroids for the treatment of Kawasaki disease in children](#)

Systematic reviews from other sources

[Anticholinergic treatment for sialorrhea in children: A systematic review.](#)

[Association of Food and Nonalcoholic Beverage Marketing With Children and Adolescents' Eating Behaviors and Health: A Systematic Review and Meta-analysis.](#)

[Auditory and Speech Outcomes of Cochlear Implantation in Children With Auditory Neuropathy Spectrum Disorder: A Systematic Review and Meta-Analysis.](#)

β 3-Adrenoceptor Agonist for the Treatment of Bladder Dysfunction in Children: A Systematic Review and Meta-Analysis. Letter.

Clinical characteristics and treatments of multi-system inflammatory syndrome in children: a systematic review.

Complications in children with ventricular assist devices: systematic review and meta-analyses.

Delivery Strategies Supporting School-Age Child Health: A Systematic Review.

Diagnostic accuracy of point-of-care ultrasound for paediatric testicular torsion: a systematic review and meta-analysis.

Difference in Hair Cortisol Concentrations between Obese and Non-Obese Children and Adolescents: A Systematic Review.

The Effect of Parental Presence on Pain Levels of Children During Invasive Procedures: A Systematic Review.

Effect of probiotics on urinary tract infections in children: A systematic review and meta-analysis.

Effects of physical activity on heart rate variability in children and adolescents: a systematic review and meta-analysis.

Efficacy and Safety of Stem Cell Therapy in Children With Autism Spectrum Disorders: A Systematic Review and Meta-Analysis.

eHealth Tools That Assess and Track Health and Well-being in Children and Young People: Systematic Review.

Exercise Capacity in Children and Adolescents With Congenital Heart Disease: A Systematic Review and Meta-Analysis.

Extended Reality (XR) and telehealth interventions for children or adolescents with autism spectrum disorder: Systematic review of qualitative and quantitative studies.

Factors associated with future hospitalization among children with asthma: a systematic review.

Global molecular prevalence and genotype distribution of Sapovirus in children with gastrointestinal complications: A systematic review and meta-analysis.

The Global Prevalence of Amblyopia in Children: A Systematic Review and Meta-Analysis.
Helicobacter pylori-negative Chronic Gastritis in Children: A Systematic Review.

The impact of hypoglycaemia in children and adolescents with type 1 diabetes on parental quality of life and related outcomes: A systematic review.

lncRNA deregulation in childhood acute lymphoblastic leukemia: A systematic review.

Infant feeding type and maternal sleep during the postpartum period: a systematic review and meta-analysis.

Iodine status during child development and hearing ability - a systematic review.

Local nitroglycerin to facilitate peripheral arterial cannulation in children: systematic review and meta-analysis.

Nutritional screening tool for critically ill children: a systematic review.

Potentially effective drugs for the treatment of COVID-19 or MIS-C in children: a systematic review.

Prenatal exposure to air pollution and the risk of eczema in childhood: a systematic review and meta-analysis.

Prevalence and risk associated with asthma in children hospitalized with SARS-CoV-2: a meta-analysis and systematic review.

Prevalence of respiratory viruses in community-acquired pneumonia in children: a systematic review and meta-analysis.

Reconsidering the Tolerable Upper Levels of Zinc Intake among Infants and Young Children: A Systematic Review of the Available Evidence.

Resilience-Promoting Programs in Families of Children With Cancer: A Systematic Review.

Review: Mental health impacts of the COVID-19 pandemic on children and youth - a systematic review.

Risk factors for catheter-related infection in children with cancer: a systematic review and meta-analysis.

Risk factors for falls among children aged 0-18 years: a systematic review.

The Role of Children in Household Transmission of COVID-19: A Systematic Review and Meta-Analysis.

Screen Time and Body Mass Index Among Children and Adolescents: A Systematic Review and Meta-Analysis.

Systematic Review: Association of Pesticide Exposure and Child Wheeze and Asthma.

A Systematic Review on the Association Between Vestibular Dysfunction and Balance Performance in Children With Hearing Loss.

Ultrasound to Verify Gastric Tube Position in Infants and Children: A Systematic Review.
Vestibular and balance dysfunction in children with congenital CMV: a systematic review.



This month's clinical questions are...

For children and adults with eczema, how does potent topical corticosteroid (TCS) compare with mild- or moderate-potency TCS?

For children and adults with eczema, how does twice or more daily topical corticosteroids (TCS) compare with once-daily TCS?

For very preterm or very low birth weight infants, do synbiotics prevent necrotizing enterocolitis?

How effective and safe is oral dextrose gel in correcting hypoglycemia in newborn infants?

Primary Research

Circulating Tumor DNA as a Biomarker in Patients With Stage III and IV Wilms Tumor: Analysis From a Children's Oncology Group Trial, AREN0533.

Combined 0.01% atropine with orthokeratology in childhood myopia control (AOK) study: A 2-year randomized clinical trial.

Delamanid Added to an Optimized Background Regimen in Children with Multidrug-Resistant Tuberculosis: Results of a Phase I/II Clinical Trial.

Demographic and Clinical Characteristics Associated With the Failure of Nonoperative Management of Uncomplicated Appendicitis in Children: Secondary Analysis of a Nonrandomized Clinical Trial.

Diaphragmatic electromyography during a spontaneous breathing trial to predict extubation failure in preterm infants.

Dolutegravir dosing for children with HIV weighing less than 20 kg: pharmacokinetic and safety substudies nested in the open-label, multicentre, randomised, non-inferiority ODYSSEY trial.

Effect of bovine lactoferrin on seroconversion following polio vaccine administration in children: protocol for a double-blinded randomised controlled trial.

Effect of Jiuwei Zhuhuang Powder on Cough Resolution in Children with Upper Respiratory Tract Infections: A Multicenter Randomized Controlled Trial.

Effect of Repeated Low-Level Red-Light Therapy for Myopia Control in Children: A Multicenter Randomized Controlled Trial.

The effect of telerehabilitation on quality of life, anxiety, and depression in children with cystic fibrosis and caregivers: A single-blind randomized trial.

Effectiveness of Intravenous Ibuprofen on Emergence Agitation in Children Undergoing Tonsillectomy with Propofol and Remifentanyl Anesthesia: A Randomized Controlled Trial.

Effectiveness of Virtual Reality Interactive Play for Children During Intravenous Placement: A Randomized Controlled Trial.

Effects of Freshly Irradiated vs Irradiated and Stored Red Blood Cell Transfusion on Cerebral Oxygenation in Preterm Infants: A Randomized Clinical Trial.

Effects of higher protein formula with improved fat blend on growth, feeding tolerance and nutritional biomarkers in preterm infants: A double-blind, randomized, controlled clinical trial.

Effectiveness and safety of lotion, cream, gel, and ointment emollients for childhood eczema: a pragmatic, randomised, phase 4, superiority trial.

Efficacy and Safety of Enteral Recombinant Human Insulin in Preterm Infants: A Randomized Clinical Trial.

Is exercise and electrostimulation effective in improving muscle strength and cardiorespiratory fitness in children with cystic fibrosis and mild-to-moderate pulmonary impairment?: Randomized controlled trial.

Glycemic outcomes of children 2-6 years of age with type 1 diabetes during the pediatric MiniMed™ 670G system trial.

Inter-trial theta phase consistency during face processing in infants is associated with later emerging autism.

Nitazoxanide-based therapeutic regimen as a novel treatment for Helicobacter pylori infection in children and adolescents: a randomized trial.

One full or two fractional doses of inactivated poliovirus vaccine for catch-up vaccination in older infants: A randomized clinical trial in Bangladesh.

Parenteral vs Oral Vitamin B12 in Children With Nutritional Macrocytic Anemia: A Randomized Controlled Trial.

PASTECS - a prospective, single-center, randomized, cross-over trial of pure physical versus physical plus attentional training in children with cancer.

Pharmacokinetics, safety, tolerability, and antiviral activity of dolutegravir dispersible tablets in infants and children with HIV-1 (IMPAACT P1093): results of an open-label, phase 1-2 trial.

Phase 2a randomised controlled feasibility trial of a new 'balanced binocular viewing' treatment for unilateral amblyopia in children age 3-8 years: trial protocol.

Pilot Randomized Trial of a Three Times Weekly Heparin Flushing Intervention in Children, Adolescents, and Young Adults With Cancer With Tunneled Central Venous Catheters.

Pragmatic Randomized Trial of Corticosteroids and Inhaled Epinephrine for Bronchiolitis in Children in Intensive Care.

Seating system for scoliosis in nonambulatory children with cerebral palsy: a randomized controlled trial.

Short-term pulmonary and systemic effects of hydrocortisone initiated 7-14 days after birth in ventilated very preterm infants: a secondary analysis of a randomised controlled trial.

A simple algorithm with one flow cytometric MRD measurement identifies more than 40% of children with ALL who can be cured with low-intensity therapy. The ALL-MB 2008 trial results.

Single Blind Randomized Controlled Trial of Modified Constraint-Induced Movement Therapy in Infants With the Sequelas of Unilateral Brachial Plexus Injury.

Single dose of intraoperative intravenous morphine for analgesia in children undergoing tonsillectomy: Randomized, double-blind clinical trial.

SMS reminders to improve the uptake and timeliness of the primary immunisation series in infants: a multi-centre randomised controlled trial.

Social communication therapy for children at risk for neurodevelopmental difficulties: Protocol for a clinical trial.

Video-assisted informed consent in a clinical trial of resuscitation of extremely preterm infants: Lessons learned.

Vitamin D supplementation and increased dairy protein intake do not affect muscle strength or physical function in healthy 6-8-year-old children: the D-pro randomized trial.

Topic: [Bulimia nervosa](#)

Topic: [Common hereditary lysosomal storage diseases](#)

Topic: [Charcot-Marie-Tooth disease](#)

Topic: [Equinovarus foot deformity](#)

Topic: [Generalised seizures in children](#)

Topic: [Respiratory syncytial virus infection](#)

Topic: [Type 1 neurofibromatosis](#)

Paediatrics in the News

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

[Babies to get new test for eye cancer in the womb to save their sight](#)

[NHS boosts care for mums and babies as hundreds of international midwives recruited](#)

[NHS fast tracks mental health support for millions of pupils](#)

[Record numbers of disabled staff in senior management roles in the NHS](#)

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](#)

National Institute for Health Research (NIHR)



[Many children and teenagers are reluctant to have a COVID-19 vaccine](#)

[A short course of antibiotics is effective for treating pneumonia in children](#)



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[COVID-19-associated croup in young children](#)

[Duration of therapy for uncomplicated community-acquired pneumonia in children in resource-rich settings](#)

[Idiopathic intracranial hypertension during treatment for precocious puberty](#)

[Screening for eating disorders](#)

[Second COVID-19 vaccine booster dose for selected individuals](#)

[Shortened regimen for children with nonsevere, smear-negative TB](#)

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