

Paediatrics Evidence Update

August 2023

Produced by the Clinical Librarian Service

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If you have any further enquiries please do not hesitate to get in touch.

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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
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Most recent guidance published:

[Otitis media with effusion in under 12s \[NG233\]](#)

Other Guidance/Reports

No updates.



Systematic Reviews and Research Protocols

[Healthy eating interventions delivered in early childhood education and care settings for improving the diet of children aged six months to six years](#)

[High flow nasal cannula for respiratory support in term infants](#)

[Lay health workers in primary and community health care for maternal and child health: identification and treatment of wasting in children](#)

[Monotherapy treatment of epilepsy in pregnancy: congenital malformation outcomes in the child](#)

[Paracetamol \(acetaminophen\) or non-steroidal anti-inflammatory drugs, alone or combined, for pain relief in acute otitis media in children](#)

[Pharmacological pain and sedation interventions for the prevention of intraventricular hemorrhage in preterm infants on assisted ventilation - an overview of systematic reviews](#)

Pharmacological treatment of gastro-oesophageal reflux in children

Vocabulary interventions for second language (L2) learners up to six years of age

Systematic reviews from other sources

A systematic review and meta-analysis of the efficacy of different optical interventions on the control of myopia in children.

Association of Extubation Failure Rates With High-Flow Nasal Cannula, Continuous Positive Airway Pressure, and Bilevel Positive Airway Pressure vs Conventional Oxygen Therapy in Infants and Young Children: A Systematic Review and Network Meta-Analysis.

Auditory Outcomes in Children Who Undergo Cochlear Implantation Before 12 Months of Age: A Systematic Review.

Delay in the diagnosis of paediatric brain tumours: a systematic review.

Drug resistance and susceptibility of amikacin in children with extended-spectrum beta-lactamase-producing Enterobacterales: a systematic review with meta-analysis.

Effectiveness and Users' Perceptions of Upper Extremity Exoskeletons and Robot-Assisted Devices in Children with Physical Disabilities: Systematic Review.

Effects of probiotic administration on overweight or obese children: a meta-analysis and systematic review.

Efficacy and Safety of Antiviral Therapy for Immune-Tolerant Hepatitis B Viral Infection in Children: A Systematic Review and Meta-analysis.

Efficacy and safety profile of dupilumab for the treatment of atopic dermatitis in children and adolescents: A systematic review and meta-analysis.

Efficacy of Repeated Low-Level Red-Light Therapy for Slowing the Progression of Childhood Myopia: A Systematic Review and Meta-analysis.

Epidemiology of Allergic Rhinitis in Children: A Systematic Review and Meta-Analysis.

Full thickness skin graft versus split thickness skin graft in paediatric patients with hand burns: Systematic review and meta-analysis.

Global burden of out-of-hospital cardiac arrest in children: a systematic review, meta-analysis, and meta-regression.

Impact of omega-3 supplementation on children and adolescents patients with cystic fibrosis: A systematic review and meta-analysis of randomized-controlled trials.

Incidence of acute kidney injury after hematopoietic stem cell transplantation in children: a systematic review and meta-analysis.

Intranasal analgesia for acute moderate to severe pain in children - a systematic review and meta-analysis.

Lumbar puncture position in infants-a systematic review and meta-analysis.

Micronutrient status in children and adolescents with Down syndrome: systematic review and meta-analysis.

Myocardial recovery in children supported with a durable ventricular assist device- a systematic review.

Outcomes of Paediatric Cystine Stone Management: Results of a Systematic Review.

Perfectionism and eating disorders in children and adolescents: A systematic review and meta-analysis.

Quality of life of children and young people with anterior chest wall deformity: a systematic review of the literature.

Risk factors related with avascular necrosis after internal fixation of femoral neck fractures in children: a systematic review and meta-analysis.

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

Shared decision-making experiences in child long-term ventilation: a systematic review.

Sirolimus treatment for paediatric head and neck lymphatic malformations: a systematic review.

Sociodemographic Factors Associated with Paediatric Out-of-Hospital Cardiac Arrest: A Systematic Review.

Some children with idiopathic toe walking display sensory processing difficulties but not all: A systematic review.

Systematic Review of Definitions and Outcome Measures for Postoperative Ileus and Return of Bowel Function after Abdominal Surgery in Children.

The effectiveness of play therapy in children with leukemia: A systematic review.

The Effects of Vitamin D Supplementation on Respiratory Infections in Children under 6 Years Old: A Systematic Review.

The prevalence of hypertension in paediatric Turner syndrome: a systematic review and meta-analysis.

The safety of repeated ketamine dosing in paediatrics: A systematic review.

The use of cannabinoids in children with epilepsy: A systematic review.



This month's clinical questions are...

Do healthy-eating interventions delivered in early childhood education and care services help improve the diet of children aged six months to six years?

For very preterm or very low birthweight infants, what are the benefits and harms of enteral supplementation with prebiotics?

How do different regimens of PEG-asparaginase affect outcomes in children and adolescents with acute lymphoblastic leukemia (ALL)?

How does intermittent phototherapy compare with continuous phototherapy for newborn infants with non-hemolytic jaundice?

How does ultrasound-guided arterial cannulation compare with palpation or Doppler guidance in children and adolescents undergoing major surgery with planned arterial catheterization?

What is the diagnostic test accuracy of non-invasive transcutaneous bilirubin measurement devices for detecting hyperbilirubinemia in newborns?

Primary Research

A Phase I Trial of Panobinostat in Children with Diffuse Intrinsic Pontine Glioma: A Report from the Pediatric Brain Tumor Consortium (PBTC-047).

A phase II dose evaluation pilot feasibility randomized controlled trial of cholecalciferol in critically ill children with vitamin D deficiency (VITdAL-PICU study).

Clinical Characterization of Juvenile Fibromyalgia in a Multicenter Cohort of Adolescents Enrolled in a Randomized Clinical Trial.

Comparison of Clinical Performance of C-MAC Video Laryngoscope Guided vs Blind Placement of I-Gel® in Paediatric Patients: A Randomized Controlled Open-Label Trial.

Comparison of radial, dorsalis pedis, and posterior tibial arteries for ultrasound-guided arterial catheterisation with dynamic needle tip positioning in paediatric patients: a randomised controlled trial.

Efficacy of dual-task training on stability and function in children with ataxia after medulloblastoma resection: A randomized controlled trial.

Evaluating inhaler education interventions for hospitalized children with asthma: A randomized controlled trial.

Garnering effective telehealth to help optimize multidisciplinary team engagement (GET2HOME) for children with medical complexity: Protocol for a pragmatic randomized control trial.

Gravity-assisted continuous flow peritoneal dialysis technique use in acute kidney injury in children: a randomized, crossover clinical trial.

Immunogenicity and safety assessment of a SARS-CoV-2 recombinant spike RBD protein vaccine (Abdala) in paediatric ages 3-18 years old: a double-blinded, multicentre, randomised, phase 1/2 clinical trial (ISMAELILLO study).

Immunogenicity and safety of fractional doses of 17D-213 yellow fever vaccine in children (YEFE): a randomised, double-blind, non-inferiority substudy of a phase 4 trial.

Impact of Gestational Diabetes Detection Thresholds on Infant Growth and Body Composition: A Prospective Cohort Study Within a Randomized Trial.

Inhaled corticosteroids to improve lung function in children (aged 6-12 years) who were born very preterm (PICS1): a randomised, double-blind, placebo-controlled trial.

Multimodal nocturnal seizure detection in children with epilepsy: A prospective, multicenter, long-term, in-home trial.

NET-Works paediatric obesity prevention trial: 66 month outcomes.

Pharmacokinetics, safety, and tolerability of imipenem/cilastatin/relebactam in children with confirmed or suspected gram-negative bacterial infections: A Phase 1b, open-label, single-dose clinical trial.

Response to aerosolized calfactant in infants with respiratory distress syndrome; a post-hoc analysis of AERO-02 trial.

Short-Course Therapy for Urinary Tract Infections in Children: The SCOUT Randomized Clinical Trial.

The Effect of 3 Methods (Buzzy, ShotBlocker, and DistrACTION Cards) Used While Taking Blood Samples From Children with Pain and Anxiety: A Randomized Controlled Trial.

The efficacy and safety of first-line anti-seizure medications as substitution therapy for children with drug-resistant epilepsy: a randomized controlled trial protocol.

The efficacy of combined arginine and probiotics as an add-on to 1450 ppm fluoride toothpaste to prevent and control dental caries in children - A randomized controlled trial.

The efficacy of non-invasive brain stimulation in the treatment of children and adolescents with Anorexia Nervosa: study protocol of a randomized, double blind, placebo-controlled trial.

Volume-targeted ventilation vs pressure-controlled ventilation for very low birthweight infants: a protocol of a randomized controlled trial.

The logo for BMJ Best Practice, featuring the letters 'BMJ' in a bold, white, sans-serif font inside a dark blue square, followed by the words 'Best Practice' in a white, sans-serif font to the right of the square.

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Topic: [Dubin-Johnson syndrome](#)

Topic: [Equinovarus foot deformity](#)

Topic: [Generalised seizures in children](#)

Topic: [Migraine headache in children](#)

Topic: [Osteosarcoma](#)

Paediatrics in the News

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

[New NHS treatments helping extend survival for babies with rare muscle-wasting disease](#)

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](#)

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[Nursing Children and Young People](#)

[Pediatric Nursing](#)

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National Institute for Health Research (NIHR)



[Personalised risk assessments could reassure parents of children with a disorder caused by a chance genetic mutation](#)



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