

## Paediatrics Evidence Update January 2022

Produced by the Clinical Librarian Service

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The Clinical Librarian team are here to help with evidence searches, current awareness and training with information seeking skills, critical appraisal and referencing. We can assist you remotely, at your place of work or in the library at the QuAD Centre.

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

You can contact us by email at [Clinical.Librarian@porthosp.nhs.uk](mailto:Clinical.Librarian@porthosp.nhs.uk) or call extension 6042.

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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**

[Click here to start search](#)  
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 **UpToDate®**

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Would you like your own, tailored evidence updates? [Email the Clinical Librarian team](#) to receive bulletins every two weeks on the topics of your choice.

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## Most recent guidance published:

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

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## Other Guidance/Reports

[Gastrostomy Toolkit \(PIER Guideline\)](#)

[Gastrostomy Videos \(PIER Guideline\)](#)

[Maintenance and Reliever Therapy \(MART\) for chronic asthma in young people aged >12 years \(PIER Guideline\)](#)

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Systematic Reviews and Research Protocols

[Delayed introduction of progressive enteral feeds to prevent necrotising enterocolitis in very low birth weight infants](#)

[Foot orthoses for treating paediatric flat feet](#)

[Measures implemented in the school setting to contain the COVID-19 pandemic: a rapid review](#)

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## Systematic reviews from other sources

Anthropometric parameters to estimate body frame size in children and adolescents: A systematic review.

Antibiotic exposure and adverse long-term health outcomes in children: a systematic review and meta-analysis.

Assessing the value of serum and urinary interleukins for diagnosis of acute kidney injury in children and adolescents: A systematic review and meta-analysis.

The Assessment of Functional Movement in Children and Adolescents: A Systematic Review and Meta-Analysis.

Association between exposure to pesticides and allergic diseases in children and adolescents: a systematic review with meta-analysis.

Association of IL-10-1082G>A, -819C>T and -592C>A Polymorphisms with susceptibility to asthma in children: a Systematic Review and Meta-Analysis.

Balanced Versus Unbalanced Fluid in Critically Ill Children: Systematic Review and Meta-Analysis.

Blood lead concentrations in children with iron deficiency anemia: a systematic review and meta-analysis.

Chilblain or perniosis-like skin lesions in children during the COVID-19 pandemic: A systematic review of articles.

Child meal microstructure and eating behaviors: A systematic review.

The clinical and radiological cerebrovascular abnormalities associated with renovascular hypertension in children: a systematic review.

Diagnostic accuracy of Xpert ultra for childhood tuberculosis: A preliminary systematic review and meta-analysis.

Effectiveness of clown intervention for pain relief in children: A systematic review and meta-analysis.

Effectiveness of virtual reality in the management of paediatric anxiety during the peri-operative period: A systematic review and meta-analysis.

Efficacy and safety of pharmacological, physical, and psychological interventions for the management of chronic pain in children: a WHO systematic review and meta-analysis.

Environmental tobacco smoke and carotid intima-media thickness in healthy children and adolescents: a systematic review.

Evidence base for point-of-care ultrasound (POCUS) for diagnosis of skull fractures in children: a systematic review and meta-analysis.

Global epidemiology of childhood bone and joint infection: a systematic review.

Global relationship between parent and child obesity: a systematic review and meta-analysis.

Intravenous opioids for chemotherapy-induced severe mucositis pain in children: Systematic review and single-center case series of management with patient- or nurse-controlled analgesia (PCA/NCA).

Laparoscopic versus open inguinal hernia repair in children: A systematic review.

Management of idiopathic sleep bruxism in children and adolescents: A systematic review of the literature.

Meta-analysis and systematic review of the association between adverse childhood events and irritable bowel syndrome.

Motor performance and back pain in children and adolescents: A systematic review.

Nonpharmacologic Treatment for Children with Functional Constipation: A Systematic Review and Meta-analysis.

Outcomes of Long-Term Noninvasive Ventilation Use in Children with Neuromuscular Disease: Systematic Review and Meta-Analysis.

Paediatric Hypertension in Africa: A Systematic Review and Meta-Analysis.

Paediatric skull growth models: A systematic review of applications to normal skulls and craniosynostoses.

Pain assessment tools in paediatric palliative care: A systematic review of psychometric properties and recommendations for clinical practice.

Pharmacokinetics of Vancomycin in Critically Ill Children: A Systematic Review.

Probiotics for preventing and treating infant regurgitation: A systematic review and meta-analysis.

Relationship between ankle function and walking ability for children and young adults with cerebral palsy: A systematic review of deficits and targeted interventions.

The relationship between wasting and stunting in young children: A systematic review.

Risk factors for *Clostridioides difficile* infection in children and adolescents with inflammatory bowel disease: a systematic review and meta-analysis.

Risky behaviors, substance use, and other lifestyle correlates of energy drink consumption in children and adolescents: a systematic review.

The role of daytime napping on salivary cortisol in children aged 0-5 years: a systematic review and meta-analysis.

Safety of Cochlear Implantation in Children 12 Months or Younger: Systematic Review and Meta-analysis.

Salivirus infection: Systematic review and meta-analysis of association with gastrointestinal symptoms in children.

A systematic review and pooled prevalence of symptoms among childhood and adolescent and young adult cancer survivors.

Systematic review: Electroconvulsive therapy for treatment-resistant mood disorders in children and adolescents.

A systematic review of metabolomic studies of childhood obesity: State of the evidence for metabolic determinants and consequences.

Tissue Doppler echocardiography in children with OSA before and after tonsillectomy and adenoidectomy: A systematic review and meta-analysis.

Zirconia crowns for children: A systematic review.

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This month's clinical questions are...

Do measures implemented in the school setting help contain the COVID-19 pandemic?

For children undergoing cardiac surgery utilizing cardiopulmonary bypass, what are the effects of prophylactic corticosteroids?

What are the benefits and harms of indomethacin for treating symptomatic patent ductus arteriosus (PDA) in infants?

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## Primary Research

Determining the optimal cholecalciferol dosing regimen in children with CKD: a randomized controlled trial.

Difamilast, a selective phosphodiesterase 4 inhibitor, ointment in paediatric patients with atopic dermatitis: a phase III randomized double-blind, vehicle-controlled trial

Effectiveness of Different Physiotherapy Protocols in Children in the Intensive Care Unit: A Randomized Clinical Trial

Efficacy of Probiotic, Chlorhexidine, and Sodium Fluoride Mouthrinses on Mutans Streptococci in 8- to 12-Year-Old Children: A Crossover Randomized Trial

Impact of azithromycin mass drug administration on the antibiotic-resistant gut microbiome in children: a randomized, controlled trial

Levetiracetam pharmacokinetics and its covariates: proposal for optimal dosing in the paediatric population

MDA and trial designs to evaluate the impact of azithromycin on child mortality

Once-Daily vs. Twice-Daily Administration of Inhaled Budesonide for Mild and Moderate Well-Controlled Childhood Asthma: A Randomized, Controlled Trial

A randomized double-blind placebo-controlled trial of the effectiveness of melatonin on neurocognition and sleep in survivors of childhood cancer

Safety of Intravenous Arginine Therapy in Children with Sickle Cell Disease Hospitalized for Vaso-Occlusive Pain: A Randomized Placebo-Controlled Trial in Progress

Short- vs Standard-Course Outpatient Antibiotic Therapy for Community-Acquired Pneumonia in Children

Single-bone versus both-bone plating of unstable paediatric both-bone forearm fractures. A randomized controlled clinical trial

Trajectory of treatment response in the child and adolescent migraine prevention (CHAMP) study: A randomized clinical trial

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**BMJ Best Practice**

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

Topic: [Assessment of acute headache in children](#)

Topic: [Intestinal malrotation](#)

Topic: [Kwashiorkor](#)

Topic: [Sickle cell anaemia](#)

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## Paediatrics in the News

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

[Hundreds of thousands of teens to get boosted on NHS](#)

[NHS expands COVID vaccinations to the most vulnerable 5 to 11 year olds](#)

[NHS to rollout boosters to most at risk 12 to 15 year-olds](#)

[‘Miracle’ Cystic Fibrosis treatment for children on the NHS](#)

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## 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

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## 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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[Closed-loop insulin pumps \(artificial pancreas\) for young children with type 1 diabetes](#)

[COVID-19: Updated CDC recommendations for isolation and quarantine in the community](#)

[Maralixibat for cholestatic pruritus in Alagille syndrome](#)

[Peanut oral immunotherapy in children less than four years of age](#)

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