

## Paediatrics Evidence Update July 2023

Produced by the Clinical Librarian Service

To access resources click on the blue hyperlinks, if you are unable to read the full text of any item please contact the Clinical Librarian team or make an article request using [this form](#).

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](#)  
(Intranet only)

Or [via OpenAthens](#)

 **UpToDate®**

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 **KnowledgeShare**

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.

# Contents (click title to view)

NICE Guidance	Other Guidance
<a href="#">Cochrane Systematic Reviews</a>	<a href="#">Systematic reviews from other sources</a>
<a href="#">Cochrane clinical answers</a>	<a href="#">Primary Research</a>
<a href="#">BMJ Best Practice</a>	<a href="#">Paediatric health in the News</a>
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## Most recent guidance published:

No updates.

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## Other Guidance/Reports

[Semaglutide for managing overweight and obesity in young people aged 12 to 17 years \(terminated appraisal\) \[TA910\]](#)

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Systematic Reviews and Research Protocols

[Early nasal intermittent positive pressure ventilation \(NIPPV\) versus early nasal continuous positive airway pressure \(NCPAP\) for preterm infants](#)

[Physical activity and education about physical activity for chronic musculoskeletal pain in children and adolescents](#)

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## Systematic reviews from other sources

[A systematic review of economic evaluations of interventions targeting childhood overweight and obesity.](#)

[A systematic review of interventions for echolalia in autistic children.](#)

A systematic review of questionnaires measuring asthma control in children in a primary care population.

Assessment and impact of paediatric internalized weight bias: A systematic review.

Association Between Childhood Obesity and Later Life Kidney Disorders: A Systematic Review.

Childhood outcomes after low-grade intraventricular haemorrhage: A systematic review and meta-analysis.

Children living with long-term conditions and their experiences of partnership in nursing care: An integrative systematic review.

CT Scan in Children Suspected of Foreign Body Aspiration: A Systematic Review and Meta-analysis.

Discharge criteria for inpatient paediatric asthma: a narrative systematic review.

Drug-related risk of hospital readmission in children with chronic diseases, a systematic review.

Dual direction associations between common autoimmune diseases and leukemia among children and young adults: A systematic review.

Effect of Orlistat on anthropometrics and metabolic indices in children and adolescents: a systematic review and meta-analysis.

Effectiveness of hospital-based strategies for improving childhood immunization coverage: A systematic review.

Epicardial Versus Endocardial Pacing in Paediatric Patients with Atrioventricular Block or Sinus Node Dysfunction: A Systematic Review and Meta-analysis.

For children admitted to hospital, what interventions improve medication safety on ward rounds? A systematic review.

Implementation of child-centred outcome measures in routine paediatric healthcare practice: a systematic review.

Lupus anticoagulant-hypoprothrombinemia syndrome in children: Three case reports and systematic review of the literature.

Morbidity and etiology-based success rate of combined endoscopic ventriculostomy and choroid plexus cauterization: a systematic review and meta-analysis of 1918 infants.

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

Open versus laparoscopic ventriculoperitoneal shunt placement in children: a systematic review and meta-analysis.

Pharmacologic Procedural Distress Management During Laceration Repair in Children: A Systematic Review.

Prediction Models for Neurocognitive Outcome of Mild Traumatic Brain Injury in Children: A Systematic Review.

Refugee child health: a systematic review of health conditions in children aged 0-6 years living in high-income countries.

Safety and efficacy of brivaracetam in children epilepsy: a systematic review and meta-analysis.  
Systematic review and meta-analysis showed that complementary and alternative medicines were not effective for infantile colic.

Systematic review of technology-mediated peer support interventions in paediatric type 1 diabetes care.

The effectiveness and safety of sialendoscopy for sialolithiasis in children: a systematic review and meta-analysis.

The impact of music, play, and pet therapies in managing pain and anxiety in paediatric patients in hospital: a rapid systematic review.

The prevalence of self-injury in adolescence: a systematic review and meta-analysis.

The short-term and long-term adverse effects of melatonin treatment in children and adolescents: a systematic review and GRADE assessment.

Use of melatonin in children and adolescents with idiopathic chronic insomnia: a systematic review, meta-analysis, and clinical recommendation.



This month's clinical questions are...

No updates.

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## Primary Research

A Comparison of Faster Insulin Aspart to Standard Insulin Aspart using Hybrid Automated Insulin Delivery System in Active Children and Adolescents with Type 1 Diabetes: A Randomized, Double-Blind Crossover Trial.

A Multi-Center Clinical Trial for Wireless Stethoscope-Based Diagnosis and Prognosis of Children Community-Acquired Pneumonia.

A point-of-care pharmacokinetic/pharmacodynamic trial in critically ill children: Study design and feasibility.

Comparison of intranasal dexmedetomidine-midazolam, dexmedetomidine-ketamine, and midazolam-ketamine for premedication in paediatric patients: a double-blinded randomized trial.

Effect of paediatric caudal injection volume on optic nerve sheath diameter and regional cerebral oximetry: A randomised trial.

Effects of an Exercise Program on Cardiometabolic and Mental Health in Children With Overweight or Obesity: A Secondary Analysis of a Randomized Clinical Trial.

Efficacy and safety of early-start deferiprone in infants and young children with transfusion-dependent beta thalassemia: Evidence for iron shuttling to transferrin in a randomized, double-blind, placebo-controlled, clinical trial (START).

High-grade glioma in infants and young children is histologically, molecularly, and clinically diverse- Results from the SJYC07 trial and institutional experience.

Hybrid immunity against reinfection with SARS-CoV-2 following a previous SARS-CoV-2 infection and single dose of the BNT162b2 vaccine in children and adolescents: a target trial emulation.

Long-Term Safety and Efficacy of Elexacaftor/Tezacaftor/Ivacaftor in Children Aged  $\geq 6$  Years with Cystic Fibrosis and at Least One *F508del* Allele: A Phase 3, Open-Label Clinical Trial.

Melatonin for migraine prevention in children and adolescents: A randomized, double-blind, placebo-controlled trial after single-blind placebo lead-in.

Phase 3 Open-Label Clinical Trial of Elexacaftor/Tezacaftor/Ivacaftor in Children Aged 2-5 Years with Cystic Fibrosis and at Least One *F508del* Allele.

Recombinant polio-rhinovirus immunotherapy for recurrent paediatric high-grade glioma: a phase 1b trial.

Study protocol of the WashT Trial: transfusion with washed versus unwashed red blood cells to reduce morbidity and mortality in infants born less than 28 weeks' gestation - a multicentre, blinded, parallel group, randomised controlled trial.

The effect of a parental preparation video (Take5) on child and parent anxiety during anaesthetic induction: a protocol for a randomised controlled trial.

The effect of visual and/or auditory distraction techniques on children's pain, anxiety and medical fear in invasive procedures: A randomized controlled trial.



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

Topic: [Assessment of rash in children](#)

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

Topic: [Child abuse](#)

Topic: [Developmental dysplasia of the hip](#)

Topic: [Muscular dystrophies](#) (FDA approves first gene therapy for treating Duchenne muscular dystrophy)

Topic: [Respiratory syncytial virus infection](#)

Topic: [Tetralogy of Fallot](#)

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## Paediatrics in the News

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

[NHS virtual ward expansion will see thousands of children treated at home](#)

[Vision-saving drug to be routinely offered on NHS to prevent blindness in premature babies](#)

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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 update.

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[Empagliflozin for type 2 diabetes in children  \$\geq 10\$  years](#)

[Family-based health behavior treatment for children with obesity](#)

[Frequency of papilledema in children with nontraumatic headache](#)

[Invasive bacterial illness in febrile young infants with COVID-19](#)

[No benefit of cerebral oximetry in preterm neonates](#)

[Screening for anxiety in children and adults](#)

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