

Paediatrics Evidence Update February 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.

You can contact us by email at 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

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KnowledgeShare

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Contents (click title to view)

NICE Guidance	Other Guidance
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Cochrane clinical answers	Primary Research
BMJ Best Practice	Paediatric health in the News
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NICE
National Institute for
Health and Care Excellence

Most recent guidance published:

No updates.

Other Guidance/Reports

[Guided self-help digital cognitive behavioural therapy for children and young people with mild to moderate symptoms of anxiety or low mood: early value assessment \[HTE3\]](#)

[Somatrogen for treating growth disturbance in children and young people aged 3 years and over \[TA863\]](#)



Systematic Reviews and Research Protocols

[Antibiotics for chronic pulmonary infection in children with a neurodisability \(neurodevelopmental disorder\)](#)

[Education support services for improving school engagement and academic performance of children and adolescents with a chronic health condition](#)

[Interventions for myopia control in children: a living systematic review and network meta-analysis](#)

[Probiotics for management of functional abdominal pain disorders in children](#)

Systematic reviews from other sources

A Systematic Review and Meta-Analysis of the Rate and Risk Factors for Post-transplant Disease Recurrence in Children With Steroid Resistant Nephrotic Syndrome.

Changes in the prevalence of respiratory pathogens in children due to the COVID-19 pandemic: A systematic review and meta-analysis.

Circumcision reduces urinary tract infection in children with antenatal hydronephrosis: Systematic review and meta-analysis.

Comparison of dexmedetomidine alone or with other sedatives for paediatric sedation during magnetic resonance imaging: a systematic review.

Effect of omega-3 supplementation on lipid profile in children and adolescents: a systematic review and meta-analysis of randomized clinical trials.

Effectiveness and safety of tenofovir alafenamide in children and adolescents living with HIV: a systematic review.

Effects of physical activity on lung function and quality of life in asthmatic children: An updated systematic review and meta-analysis.

Efficacy and safety of non-pharmacological interventions for endotracheal suctioning pain in preterm infants: A systematic review.

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

Efficacy of Plantar Orthoses in Paediatric Flexible Flatfoot: A Five-Year Systematic Review.

Efficacy of Vigabatrin in the Treatment of Infantile Epileptic Spasms Syndrome: a systematic review and meta-analysis.

Interventions for myopia control in children: a living systematic review and network meta-analysis.

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

Management and outcome of high-risk neuroendocrine tumors of the appendix in children; A systematic review.

Medication-Related Osteonecrosis of the Jaws (MRONJ) in Children and Young Patients- A Systematic Review.

Immunogenicity, effectiveness, and safety of COVID-19 vaccines among children and adolescents aged 2-18 years: an updated systematic review and meta-analysis.

Monoclonal Antibody for the Prevention of Respiratory Syncytial Virus in Infants and Children: A Systematic Review and Network Meta-analysis.

Optimal Use and Need for Therapeutic Drug Monitoring of Teicoplanin in Children: A Systematic Review.

Oral iron supplementation and anaemia in children according to schedule, duration, dose and cosupplementation: a systematic review and meta-analysis of 129 randomised trials.

Parental Factors Associated with Child or Adolescent Medication Adherence: A Systematic Review.

Primary headache epidemiology in children and adolescents: a systematic review and meta-analysis.

Psychiatric Disorders and Obesity in Childhood and Adolescence-A Systematic Review of Cross-Sectional Studies.

Safety and clinical efficacy of linezolid in children: a systematic review and meta-analysis.

Safety, metabolic and psychological outcomes of Medtronic MiniMed 670G in children, adolescents and young adults: a systematic review.

SARS-CoV-2 seroprevalence in children worldwide: A systematic review and meta-analysis.

Systematic review on the impact of the pneumococcal conjugate vaccine ten valent (PCV10) or thirteen valent (PCV13) on all-cause, radiologically confirmed and severe pneumonia hospitalisation rates and pneumonia mortality in children 0-9 years old.

The efficacy and safety of cyclosporine in children with systemic lupus erythematosus: A protocol for systematic review and meta-analysis.

The Resilience of Caregivers and Children in the Context of COVID-19: A Systematic Review.

Transcutaneous Neuromodulation for Constipation and Fecal Incontinence in Children: A Systematic Review and Meta-Analysis.

Trends in In-Hospital Cardiac Arrest and Mortality Among Children With Cardiac Disease in the Intensive Care Unit: A Systematic Review and Meta-analysis.

Understanding parent experiences of end-of-life care for children: A systematic review and qualitative evidence synthesis.



This month's clinical questions are...

For preterm infants with bronchopulmonary dysplasia or at high risk of developing the disease, what are the benefits and harms of inhaled corticosteroids after the first week of life?

In children with croup, how do glucocorticoids compare with placebo or epinephrine for improving outcomes?

What is the accuracy of brain natriuretic peptide (BNP) or amino-terminal pro-BNP (NT-proBNP) for the diagnosis of hemodynamically significant patent ductus arteriosus (hsPDA) in preterm infants?

Primary Research

A pre-post intervention study: Knowledge among parents about child infections and antibiotic use facilitated by maternal and child health nurses.

An observational pragmatic quality-of-life study on paediatric tonsillectomy and waiting for surgery.

Asthma management and control in children, adolescents, and adults in 25 countries: a Global Asthma Network Phase I cross-sectional study.

Autonomous competences and quality of professional life of paediatric nurses in primary care, their relationship and associated factors: A cross-sectional study.

Back Pain without Disease or Substantial Injury in Children and Adolescents: A Twin Family Study Investigating Genetic Influence and Associations.

Exploring the interface between adolescent dysmenorrhoea and endometriosis: a protocol for a cohort and nested case-control study within the QResearch Database.

Febrile illness in high-risk children: a prospective, international observational study.

Fibroblast growth factor 23 in children with or without heart failure: a prospective study.

Illness perceptions, fear of progression and health-related quality of life during acute treatment and follow-up care in paediatric cancer patients and their parents: a cross-sectional study.

Immunological and molecular study in children with combined immunodeficiency.

Laser acupuncture improving functional chronic constipation in children: a randomized controlled trial.

Methylprednisolone versus intravenous immunoglobulins in children with paediatric inflammatory multisystem syndrome temporally associated with SARS-CoV-2 (PIMS-TS): an open-label, multicentre, randomised trial.

Mortality risk factors among critically ill children with MIS-C in PICUs: a multicenter study.

National and regional prevalence of SARS-CoV-2 antibodies in primary and secondary school children in England: the School Infection Survey, a national open cohort study, November 2021.

Natural history of liver disease in a large international cohort of children with Alagille syndrome: Results from the GALA study.

Personalised azithromycin+metronidazole (PAZAZ), in combination with standard induction therapy, to achieve a faecal microbiome community structure and metagenome changes associated with sustained remission in paediatric Crohn's disease (CD): protocol of a pilot study.

Relationship between workplace bullying, spirituality, and job burnout in paediatric nurses: A cross-sectional study.

Short-term complications and post-acute sequelae in hospitalized paediatric patients with COVID-19 and obesity: A multicenter cohort study.

Sleep disordered breathing and its relation to stroke and pulmonary hypertension in children with sickle cell disease: a single-center cross-sectional study.

The AuTOMATIC trial: a study protocol for a multi-arm Bayesian adaptive randomised controlled trial of text messaging to improve childhood immunisation coverage.

The Clinical Suitability of an Artificial Intelligence-Enabled Pain Assessment Tool for Use in Infants: Feasibility and Usability Evaluation Study.

Trends in antipsychotic prescribing to children and adolescents in England: cohort study using 2000-19 primary care data.

Use of a paediatric advice line for parents of infants recruited to a randomised controlled trial.

BMJ Best Practice

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

Topic: [Acute otitis media](#)

Topic: [Assessment of infantile dystonia](#)

Topic: [Assessment of learning difficulty and cognitive delay](#)

Topic: [Constipation in children](#)

Topic: [Depression in children](#)

Topic: [Phenylketonuria](#)

Topic: [Premature newborn care](#)

Topic: [Rh incompatibility](#)

Topic: [Type 2 diabetes in children](#)

Paediatrics in the News

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

No updates.

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)



No updates.



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[ADHD medications and risk of cardiovascular events](#)

[Exercise in youth with depression](#)

[Feeding and antiretroviral prophylaxis for infants born to mothers with HIV](#)

[HFNC oxygen therapy for mild to moderate acute hypoxemic respiratory failure in children](#)

[Hydroxyurea in sickle cell disease](#)

[Improved survival for transfusion-dependent thalassemia](#)

[Meningitis B vaccination in young children](#)

[Newborn pulse oximetry screening for congenital heart disease](#)

[Ultrasound in patients with suspected peritonsillar abscess](#)

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