

## Paediatrics Evidence Update April 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.

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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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NICE Guidance	Other Guidance
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**NICE**  
National Institute for  
Health and Care Excellence

## Most recent guidance published:

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

[Epilepsies in children, young people and adults \[NG217\]](#)

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## Other Guidance/Reports

No updates.



Systematic Reviews and Research Protocols

[Care delivery and self-management strategies for children with epilepsy](#)

[Continuous positive airway pressure \(CPAP\) for acute bronchiolitis in children](#)

[Prophylactic cyclo-oxygenase inhibitor drugs for the prevention of morbidity and mortality in preterm infants: a network meta-analysis](#)

## Systematic reviews from other sources

Association between childhood constipation and exposure to stressful life events: a systematic review.

The Association between Screen Time and Attention in Children: A Systematic Review.

Barriers and facilitators to implementing practices for prevention of childhood obesity in primary care: A mixed methods systematic review.

Beta-lactam allergy and drug challenge test in children: a systematic review and meta-analysis.

Catheter salvage strategies in children with central venous catheter related or associated bloodstream infections: a systematic review and meta-analysis.

Child transmission of SARS-CoV-2: a systematic review and meta-analysis.

Clinical ethics support services in paediatric practice: protocol for a mixed studies systematic review on structures, interventions and outcomes.

Comparative efficacy and safety of pharmacologic interventions to prevent mother-to-child transmission of hepatitis B virus: a systematic review and network meta-analysis.

COVID-19 and idiopathic nephrotic syndrome in children: systematic review of the literature and recommendations from a highly affected area.

Determinants of malnutrition among children: A systematic review.

Dietary interventions for functional abdominal pain disorders in children: a systematic review and meta-analysis.

Dropoling outcome measures in paediatric disability: a systematic review.

Effective antimicrobial therapies of urinary tract infection among children in low-income and middle-income countries: protocol for a systematic review and meta-analysis.

Effectiveness of physiotherapy interventions for back care and the prevention of non-specific low back pain in children and adolescents: a systematic review and meta-analysis.

The Effectiveness of Wearable Devices as Physical Activity Interventions for Preventing and Treating Obesity in Children and Adolescents: Systematic Review and Meta-analysis.

Efficacy and safety of aprotinin in paediatric cardiac surgery: A systematic review and meta-analysis.

Efficacy, immunogenicity, and safety of available vaccines in children on biologics: A systematic review and meta-analysis.

Epigastric Hernias in Children: A Personal Series and Systematic Review of the Literature.

Evaluations of Effective Coverage of Maternal and Child Health Services: A Systematic Review.

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

The Global Impact of COVID-19 on Childhood Cancer Outcomes and Care Delivery - A Systematic Review.

Global Prevalence of Meeting Screen Time Guidelines Among Children 5 Years and Younger: A Systematic Review and Meta-analysis.

Health care providers' responses to sexually abused children and adolescents: a systematic review.

Herbal Medicine for the Treatment of Anorexia in Children: A Systematic Review and Meta-Analysis.

Identifying mental health needs of children and youth with skin disease: A systematic review of screening and assessment tools.

Immunogenicity and safety of routine vaccines in children and adolescents with rheumatic diseases on immunosuppressive treatment - a systematic review.

The impact of parent-only interventions on child anxiety: A systematic review and meta-analysis.

The impact of surgical resection and adjuvant therapy on survival in paediatric patients with Atypical Teratoid Rhabdoid Tumour: Systematic review and pooled survival analysis.

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

Insight into the content of and experiences with follow-up conversations with bereaved parents in paediatrics: A systematic review.

Is secondhand smoke exposure associated with poor periodontal status in children and adolescents? A systematic review and meta-analysis.

Neuropsychological Profile of Intellectually Gifted Children: A Systematic Review.

Non-pharmacologic therapies in treatment of childhood-onset systemic lupus erythematosus: A systematic review.

Re-fractures of the paediatric radius and/or ulna: A systematic review.

Safety, Immunogenicity, and Efficacy of COVID-19 Vaccines in Adolescents, Children, and Infants: A Systematic Review and Meta-Analysis.

Sleep timing and health indicators in children and adolescents: a systematic review.

Surgical Management of Paediatric Thoracolumbar Tuberculosis by a Combination of Anterior and Posterior Versus Posterior Only Approach: A Systematic Review and Meta-Analysis.

A systematic review and meta-analysis of the benefits of a gluten-free diet and/or casein-free diet for children with autism spectrum disorder.

A systematic review of Clinical Practice Guidelines for the management of fractures in children to develop the WHO's Package of Interventions for Rehabilitation.

Systematic Review of Conceptual, Age, Measurement and Valuation Considerations for Generic Multidimensional Childhood Patient-Reported Outcome Measures.

Systematic review of costs and cost-effectiveness of treatment for relapsed/refractory acute leukaemia in children and young adults.

Systematic review of health and disease in Ukrainian children highlights poor child health and challenges for those treating refugees.

Systematic review to evaluate a potential association between helminth infection and physical stunting in children.

A systematic review of using flexible bronchoscopy to remove foreign bodies from paediatric patients.

Unhealthy Food and Beverage Consumption in Children and Risk of Overweight and Obesity: A Systematic Review and Meta-analysis.

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This month's clinical questions are...

How does delaying the introduction of progressive enteral feeds affect outcomes in very preterm or very low birth weight infants?

What are the benefits and harms of vitamin A supplementation in children from six months to five years of age?

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## Primary Research

Acute and Posttraumatic Stress in Family Members of Children With a Prolonged Stay in a PICU: Secondary Analysis of a Randomized Trial.

Arginine Therapy and Cardiopulmonary Hemodynamics in Hospitalized Children with Sickle Cell Anemia: A Prospective Double-Blinded Randomized Placebo-Controlled Trial.

Azithromycin and high-dose vitamin D for treatment and prevention of asthma-like episodes in hospitalised preschool children: study protocol for a combined double-blind randomised controlled trial.

Bacillus Calmette-Guérin Skin Reaction Predicts Enhanced Mycobacteria-Specific T-Cell Responses in Infants: A *Post Hoc* Analysis of a Randomized Controlled Trial.

Cambridge hybrid closed-loop algorithm in children and adolescents with type 1 diabetes: a multicentre 6-month randomised controlled trial.

Comparison of a low carbohydrate intake and standard carbohydrate intake on refeeding hypophosphatemia in children and adolescents with anorexia nervosa: a pilot randomised controlled trial.

Comparative effectiveness of paediatric kidney stone surgery (the PKIDS trial): study protocol for a patient-centred pragmatic clinical trial.

d-Amphetamine Transdermal System in Treatment of Children and Adolescents with ADHD: Secondary Endpoint Results from a Phase 2 Trial.

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

Effect of care programme based on Comfort Theory on reducing parental anxiety in the paediatric day surgery: Randomised controlled trial.

Effect of customised preformed foot orthoses on gait parameters in children with juvenile idiopathic arthritis: A multicentre randomised clinical trial.

Effect of High-Flow Nasal Cannula Therapy vs Continuous Positive Airway Pressure Following Extubation on Liberation From Respiratory Support in Critically Ill Children: A Randomized Clinical Trial.

Effect of Maternal Docosahexaenoic Acid Supplementation on Very Preterm Infant Growth: Secondary Outcome of a Randomized Clinical Trial.

Effect of pre-operative oral paracetamol on gastric residual volume and pH in young children in the context of a 1-hour clear fluid fast: a randomised controlled trial.

Effects of orthoptic therapy in children with intermittent exotropia after surgery: study protocol for a randomized controlled trial.

The effects of short bouts of ergometric exercise for severely burned children in intensive care: A randomized controlled trial.

Effects of Virtual Reality Education on Procedural Pain and Anxiety During Venipuncture in Children: A Randomized Clinical Trial.

Efficacy of antimicrobial photodynamic therapy versus antiviral therapy in the treatment of herpetic gingivostomatitis among children: a randomized controlled clinical trial.

The efficacy of Narrative Exposure Therapy for Children (KIDNET) as a treatment for traumatized young refugees versus treatment as usual: update to the study protocol for the multi-center randomized controlled trial YOURTREAT.

Efficacy of orthodontic treatment versus adenotonsillectomy in children with moderate obstructive sleep apnoea and mandibular retrognathia: study design and protocol for a non-inferiority randomised controlled trial.

Efficacy of packed red blood cell transfusions based on weight versus formula in thalassaemic children: An open-label randomized control trial.

Efficacy, safety, and immunogenicity of an inactivated, adjuvanted enterovirus 71 vaccine in infants and children: a multiregion, double-blind, randomised, placebo-controlled, phase 3 trial.

Energy Drinks and Their Acute Effects on Arterial Stiffness in Healthy Children and Teenagers: A Randomized Trial.

Enoxaparin Thromboprophylaxis in Children Hospitalized for COVID-19: A Phase 2 Trial.

Evaluation of the Effectiveness of a Technology-Based Psychosocial Education and Counseling Program for Adolescent Survivors of Childhood Leukemia: A Randomized Controlled Trial.

Extended Versus Standard Antibiotic Course Duration in Children <5 Years of Age Hospitalized With Community-acquired Pneumonia in High-risk Settings: Four-week Outcomes of a Multicenter, Double-blind, Parallel, Superiority Randomized Controlled Trial.

Intranasal ketorolac versus intravenous ketorolac for treatment of migraine headaches in children: A randomized clinical trial.

Intravenous ketorolac versus morphine in children presenting with suspected appendicitis: a pilot single-centre non-inferiority randomised controlled trial.

Long-term Efficacy and Safety of Up to 108 Weeks of Ixekizumab in Pediatric Patients With Moderate to Severe Plaque Psoriasis: The IXORA-PEDS Randomized Clinical Trial.

Long-term results from the multicentric European randomized phase 3 trial CWS/RMS-96 for localized high-risk soft tissue sarcoma in children, adolescents, and young adults.

Mirror movements after bimanual intensive therapy in children with unilateral cerebral palsy: A randomized controlled trial.

Optimising the management of childhood acute diarrhoeal disease using a rapid test-and- treat strategy and/or *Lactobacillus reuteri* DSM 17938: a multicentre, randomised, controlled, factorial trial in Botswana.

Panic or peace - prioritising infant welfare when medicating feverish infants: a grounded theory study of adherence in a paediatric clinical trial.

Photobiomodulation for chemotherapy-induced oral mucositis in leukemic children: A randomized controlled clinical trial.

A pragmatic real-world trial examining the impact of an alteration of prescribing practice at diagnosis in paediatric type 1 diabetes mellitus.

Quality of life, healthcare use and costs in 'at-risk' children after early antibiotic treatment versus placebo for influenza-like illness: within-trial descriptive economic analyses of the ARCHIE randomised controlled trial.

A randomised controlled trial of a novel tramadol chewable tablet: pharmacokinetics and tolerability in children.

A randomized, placebo-controlled, double-blind trial of canakinumab in children and young adults with sickle cell anemia.

Safety and efficacy of cabozantinib for patients with advanced hepatocellular carcinoma who advanced to Child-Pugh B liver function at study week 8: a retrospective analysis of the CELESTIAL randomised controlled trial.

Safety and Efficacy of Lonapegsomatropin in Children with Growth Hormone Deficiency: enliGHten Trial 2-Year Results.

Study protocol for Running for health (Run4Health CP): a multicentre, assessor-blinded randomised controlled trial of 12 weeks of two times weekly Frame Running training versus usual care to improve cardiovascular health risk factors in children and youth with cerebral palsy.

Trauma-focused treatments for refugee children: study protocol for a randomized controlled trial of the effectiveness of KIDNET versus EMDR therapy versus a waitlist control group (KIEM).

Ultrasound-guided transverse abdominis plane block, ilioinguinal/iliohypogastric nerve block, and quadratus lumborum block for elective open inguinal hernia repair in children: a randomized controlled trial.

Use of Virtual Reality in the Reduction of Pain After the Administration of Vaccines Among Children in Primary Care Centers: Protocol for a Randomized Clinical Trial.

Using a modified nominal group technique to develop complex interventions for a randomised controlled trial in children with symptomatic pes planus.

Topic: [Depression in children](#)

Topic: [Disorders of infant feeding](#)

Topic: [Omphalocele and gastroschisis](#)

Topic: [Sepsis in children](#)

Topic: [Urinary tract infections in children](#)

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## Paediatrics in the News

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

[NHS develops world-first bedside genetic test to prevent babies going deaf](#)

[NHS rolls out COVID vaccine to five million 5 to 11 year olds](#)

[One million families with five and six-year-olds invited for COVID jabs this week](#)

[Top jobs in NHS more diverse than any point in history](#)

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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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[Clinical presentation of COVID-19 cases due to Delta and Omicron variant](#)

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

[Fenfluramine for seizures associated with Lennox-Gastaut syndrome](#)

[Long-term effectiveness of school-based alcohol use prevention in adolescents](#)

[New juvenile hemochromatosis gene](#)

[Nirsevimab for prevention of RSV in healthy infants](#)

[Prophylactic oral dextrose gel in at risk newborns does not improve neurodevelopmental outcomes](#)

[Remdesivir approved for treatment of COVID-19 in children age 28 days and older](#)

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

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