

## Paediatrics Evidence Update June 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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 **UpToDate®**

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## Most recent guidance published:

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

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## Other Guidance/Reports

[Vertebral body tethering for idiopathic scoliosis in children and young people \[IPG728\]](#)

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Systematic Reviews and Research Protocols

[Extracorporeal photopheresis versus alternative treatment for chronic graft-versus-host disease after haematopoietic stem cell transplantation in children and adolescents](#)

[Interventions for treating supracondylar elbow fractures in children](#)

[Non-pharmacological interventions for sleep promotion in hospitalized children](#)

[Positioning for acute respiratory distress in hospitalised infants and children](#)

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## Systematic reviews from other sources

[Anesthetic Exposure During Childhood and Neurodevelopmental Outcomes: A Systematic Review and Meta-analysis.](#)

[Aortic intima media thickness in children and adolescents with type 1 diabetes: A systematic review.](#)

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Artificial intelligence for radiological paediatric fracture assessment: a systematic review.

Comparison of transfusion reactions in children and adults: A systematic review and meta-analysis.

Comparative Effectiveness of Regimens for Drug-Susceptible Tuberculous Meningitis in Children and Adolescents: A Systematic Review and Aggregate-Level Data Meta-Analysis.

Contemporary Trends in Global Mortality of Sepsis Among Young Infants Less Than 90 Days: A Systematic Review and Meta-Analysis.

Cortisol Levels During Acute Illnesses in Children and Adolescents: A Systematic Review.

COVID-19 cutaneous manifestations in children and adolescents: a systematic review.

Cribriform adenocarcinoma of the tongue and minor salivary glands: a systematic review of an uncommon clinicopathological entity.

Diabetic ketoacidosis fluid management in children: systematic review and meta-analyses.

The effect of 0.01% atropine on ocular axial elongation for myopia children: A protocol for systematic review and meta-analysis.

Effects of the maternal and child health handbook and other home-based records on mothers' non-health outcomes: a systematic review.

Efficacy of atropine, orthokeratology, and combined atropine with orthokeratology for childhood myopia: A systematic review and network meta-analysis.

Gastrointestinal viral shedding in children with SARS-CoV-2: a systematic review and meta-analysis.

HIV Serostatus Disclosure and Its Predictors Among Children Living With HIV in Ethiopia: A Systematic Review and Meta-Analysis.

Hospital-based inpatient quality improvement initiatives on safe infant sleep: Systematic review and narrative synthesis.

Incidence and aetiology of infant Gram-negative bacteraemia and meningitis: systematic review and meta-analysis.

Intra-/Extracorporeal Single-Incision Versus Conventional Laparoscopic Appendectomy in Children: A Systematic Review and Meta-Analysis.

Laparoscopic versus Open Reduction of Intussusception in Infants and Children: A Systematic Review and Meta-analysis.

Location of end-of-life care of children with cancer: A systematic review of parent experiences.

Long-COVID in children and adolescents: a systematic review and meta-analyses.

Myocardial Deformation Imaging by Speckle-Tracking Echocardiography for Assessment of Cardiotoxicity in Children during and after Chemotherapy: A Systematic Review and Meta-Analysis.

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

Normal B-cell ranges in infants: A systematic review and meta-analysis.

Oral myiasis affecting paediatric patients: a systematic review.

Overweight/Obesity in Childhood and the Risk of Early Puberty: A Systematic Review and Meta-Analysis.

Physical Impairment and Function in Children and Adolescents With Sickle Cell Disease: A Systematic Review.

Physician decision-making process about withholding/withdrawing life-sustaining treatments in paediatric patients: a systematic review of qualitative evidence.

Post-operative colonic manometry in children with anorectal malformations: A systematic review.

The prevention effect of probiotics against eczema in children: an update systematic review and meta-analysis.

Prophylaxis of Venous Thromboembolism in Children: A Systematic Review.

Risk Factors for Post-infectious Bronchiolitis Obliterans in Children: A Systematic Review and Meta-Analysis.

Safety of Ibuprofen in Children With G6PD Deficiency: A Systematic Review.

Safety of Quinolones in Children: A Systematic Review and Meta-Analysis.

Sarcopenic Obesity in Children and Adolescents: A Systematic Review.

Sedation for less invasive surfactant administration in preterm infants: a systematic review and meta-analysis.

Service redesign interventions to reduce waiting time for paediatric rehabilitation and therapy services: A systematic review of the literature.

Severe Outcomes Associated With SARS-CoV-2 Infection in Children: A Systematic Review and Meta-Analysis.

Supervised Exercise Interventions in Childhood Cancer Survivors: A Systematic Review and Meta-Analysis of Randomized Controlled Trials.

Supplementation of Infant Formula and Neurodevelopmental Outcomes: a Systematic Review.

Systematic review - alopecia areata and tofacitinib in paediatric patients.

Systematic review of clinical practice guidelines on the management of community acquired pneumonia in children.

A Systematic Review of International Guidance for Self-Report and Proxy Completion of Child-Specific Utility Instruments.

Systematic review of the prevalence and nature of drug-related problems in paediatric patients.

Trampoline centre injuries in children and adolescents: a systematic review and meta-analysis.

Thrombotic events in children and adolescent patients with SARS-Cov-2 infection: a systematic review with meta-analysis on incidence and management.

(Un)common space in infant neuroimaging studies: A systematic review of infant templates.

Use of Teduglutide in Children With Intestinal Failure: A Systematic Review.

Vascular hitch for paediatric pelvi-ureteric junction obstruction with crossing vessels: institutional analysis and systematic review with meta-analysis.

Visceral adiposity and respiratory outcomes in children and adults: a systematic review.

Weight excess association with severity in children and adolescents with COVID-19: A systematic review.

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This month's clinical questions are...

For healthy infants, what are the effects of supplementation or food fortification on anemia?

How does parenteral compare with enteral fluid therapy for children hospitalized with bronchiolitis?

What evidence is available on unintended health and societal consequences of measures implemented in the school setting to contain the COVID-19 pandemic?

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## Primary Research

A cross-sectional study of pediatric hidradenitis suppurativa and the value of the International Hidradenitis Suppurativa Severity Score System (IHS4) as a pediatric clinical trial inclusion criteria.

A multi-center, pragmatic, effectiveness-implementation (hybrid I) cluster randomized controlled trial to evaluate a child-oriented goal-setting approach in paediatric rehabilitation (the ENGAGE approach): a study protocol.

Adaptive Hearing Aid Benefit in Children With Mild/Moderate Hearing Loss: A Registered, Double-Blind, Randomized Clinical Trial.

Azithromycin for Poorly Controlled Asthma in Children: A Randomized Controlled Trial.

Children's experiences of meals after obesity treatment: a qualitative follow-up four years after a randomized 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 Therapy on Liberation From Respiratory Support in Acutely Ill Children Admitted to Pediatric Critical Care Units: A Randomized Clinical Trial.

Effect of Point-of-Care Testing for Respiratory Pathogens on Antibiotic Use in Children: A Randomized Clinical Trial.

Effect of Zinc Supplementation in Children Less Than 5 Years on Diarrhea Attacks: A Randomized Controlled Trial.

Efficacy of sodium hyaluronate in relieving nasal symptoms of children with intermittent allergic rhinitis: a randomized controlled trial.

Efficacy of topical lidocaine-prilocaine (EMLA®) for management of infant pain during pneumococcal vaccination: A randomized controlled trial.

Eye colour and skin pigmentation as significant factors for refractive outcome and residual accommodation in hypermetropic children: a randomized clinical trial using cyclopentolate 1% and tropicamide 1.

Feasibility and acceptability of a diagnostic randomized clinical trial of bowel ultrasound in infants with suspected necrotizing enterocolitis.

High-flow nasal cannula oxygen in children with bronchiolitis: A randomized controlled trial.

Immunogenicity and safety of the inactivated enterovirus 71 vaccine administered concomitantly with the measles-rubella vaccine in infants aged 8 months in China: A noninferiority randomized controlled trial.

Intestinal Microbial Composition of Children in a Randomized Controlled Trial of Probiotics to Treat Acute Gastroenteritis.

Lactoferrin for iron-deficiency anemia in children with inflammatory bowel disease: a clinical trial.

Leveraging clinical trial populations and data from the Children's Oncology Group for cancer survivorship research.

LUNCH-Lung Ultrasound for early detection of silent and apparent aspiration in infants and young Children with cerebral palsy and other developmental disabilities: study protocol of a randomized controlled trial.

Multispecies Probiotic for the Prevention of Antibiotic-Associated Diarrhea in Children: A Randomized Clinical Trial.

Protocol for a randomised controlled trial of a family strengthening program to prevent unhealthy weight gain among 5 to 11-year-old children from at-risk families: the Strong Families Trial.

Protocol for a Randomized Multiple Center Trial of Conservative Versus Liberal Oxygenation Targets in Critically Ill Children (Oxy-PICU): Oxygen in Paediatric Intensive Care.

Randomised controlled trial of nebulised gentamicin in children with bronchiectasis.

Reducing household air pollution exposure to improve early child growth and development; a randomized control trial protocol for the "Poriborton-Extension: The CHANge trial".

Reframe the pain: Divided attention and positive memory reframing to reduce needle pain and distress in children-A feasibility randomized controlled trial.

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

Secondary Analyses of the Childhood Adenotonsillectomy Trial: A Narrative Review.

Sevoflurane requirements during electroencephalogram (EEG)-guided vs standard anesthesia Care in Children: A randomized controlled trial.

The Effect of Alfentanil on Emergence Delirium Following General Anesthesia in Children: A Randomized Clinical Trial.

Trial and Error: Learning From Malpractice Claims in Childhood Surgery.

Ultrasound-guided quadratus lumborum block provided more effective analgesia for children undergoing lower abdominal laparoscopic surgery: a randomized clinical trial.

Topic: [Acute pharyngitis](#)

Topic: [Absence seizures](#)

Topic: [Common hereditary lysosomal storage diseases](#)

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

Topic: [Erb's palsy](#)

Topic: [Generalised seizures in children](#)

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## Paediatrics in the News

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

[Medical support worker role helps hundreds of refugees to become NHS doctors](#)

[NHS checks and treatment on patients' doorsteps part of new changes to health and care in England](#)

[NHS in final push to treat longest waiters](#)

[NHS saves £1.2 billion on medicines over three years](#)

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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)



Adverse childhood experiences: what support do young people need?

Neonatal care: parents may need long-term psychological support

Tool helps identify abuse in young children with burns

What does it take to lead an integrated care system?

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COVID-19 vaccination in children 6 months and older

Dupilumab for eosinophilic esophagitis

Duration of therapy for uncomplicated community-acquired pneumonia in children in resource-rich settings

Firearms are the leading cause of death in children in the United States

Group A Streptococcus prophylaxis in patients with acute rheumatic heart disease

Mild direct hyperbilirubinemia in newborns and later development of biliary atresia

New tool for assessing eosinophilic esophagitis

Nonoperative management of appendicitis in children

Outbreak of acute hepatitis in young children

Phentermine-topiramate for treatment of obesity in adolescents

Shortened regimen for children with nonsevere, smear-negative TB

Ultrasound guidance for peripheral intravenous line placement in children

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