

## Paediatrics Evidence Update July 2022

Produced by the Clinical Librarian Service

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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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<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:

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

[Social, emotional and mental wellbeing in primary and secondary education \[NG223\]](#)

[Urinary tract infection in under 16s: diagnosis and management \[NG224\]](#)

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## Other Guidance/Reports

No updates.



Systematic Reviews and Research Protocols

[Child protection training for professionals to improve reporting of child abuse and neglect](#)

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## Systematic reviews from other sources

[Bone deficits in children and youth with type 1 diabetes: 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.](#)

[Characteristics and diagnostic approach of vestibular migraine in children and adolescents: A systematic review.](#)

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Chemotherapy-induced oral mucositis in children and adolescents: a systematic review.

Classification Criteria and Rates of Persistent Postconcussive Symptoms in Children: A Systematic Review and Meta-Analysis.

Clinical outcomes of Pfizer-BioNTech COVID-19 vaccine in children and adolescents: A systematic review.

COVID-19 vaccination and carditis in children and adolescents: a systematic review and meta-analysis.

Describing Frequencies of Lower-Limb Apophyseal Injuries in Children and Adolescents: A Systematic Review.

Disparities in the Prevalence of Childhood Obesity-Related Comorbidities: A Systematic Review. Drooling outcome measures in paediatric disability: a systematic review.

Early Peritoneal Dialysis and Postoperative Outcomes in Infants After Pediatric Cardiac Surgery: Systematic Review and Meta-Analysis.

The Effect of High and Low Ambient Temperature on Infant Health: A Systematic Review.

Effects of Strength Training on Body Fat in Children and Adolescents with Overweight and Obesity: A Systematic Review with Meta-Analysis.

Effects of vitamin D supplementation on glycemic control of children and adolescents with type 1 diabetes mellitus: a systematic review.

Efficacy and safety of integrated traditional Chinese and Western medicine for the treatment of infant bronchiolitis: A systematic review, meta-analysis and GRADE evaluation.

Effectiveness of the SCERTS Model-Based Interventions for Autistic Children: A Systematic Review.

Epidemiology of aerophagia in children and adolescents: A systematic review and meta-analysis.

Giant prolactinoma in children and adolescents: a single-center experience and systematic review.

Global prevalence of prediabetes in children and adolescents: A systematic review and meta-analysis.

Hyponatremia-A New Diagnostic Marker for Complicated Acute Appendicitis in Children: A Systematic Review and Meta-Analysis.

Invasive group A streptococcal disease in pregnant women and young children: a systematic review and meta-analysis.

Laryngeal reinnervation for paediatric vocal cord palsy: a systematic review.

Levosimendan in paediatric cardiac anaesthesiology: A systematic review and meta-analysis.

Management of the undescended testis in children: An American Pediatric Surgical Association Outcomes and Evidence Based Practice Committee Systematic Review.

Muscular Fitness and Cardiometabolic Variables in Children and Adolescents: A Systematic Review.

Music and musical elements in the treatment of childhood speech sound disorders: A systematic review of the literature.

Outcome of Eustachian Tube Balloon Dilation in Children: A Systematic Review.

Outdoor particulate matter exposure and upper respiratory tract infections in children and adolescents: A systematic review and meta-analysis.

Paediatric gonad shielding in pelvic radiography: A systematic review and meta-analysis.

Parechovirus A infection and risk of gastroenteritis in children: A systematic review and meta-analysis.

Patient-reported outcomes are under-utilised in evaluating supportive therapies in paediatric oncology - A systematic review of clinical trial registries.

Paroxysmal hemicrania in children and adolescents: A systematic review.

Perioperative opioid use in paediatric inguinal hernia patients: A systematic review and retrospective audit of practice.

Prevalence and Associated Factors of Iron Deficiency and Iron Deficiency Anemia Among Under-5 Children: A Systematic Review and Meta-Analysis.

Prevalence and Correlates of Suicide and Nonsuicidal Self-injury in Children: A Systematic Review and Meta-analysis.

Preventing and treating childhood overweight and obesity in children up to 5 years old: A systematic review by intervention setting.

Pulmonary function in children and adolescents with untreated idiopathic scoliosis: a systematic review with meta-regression analysis.

Relationship between Vancomycin Trough Serum Concentrations and Clinical Outcomes in Children: a Systematic Review and Meta-Analysis.

Risk Factors of Flatfoot in Children: A Systematic Review and Meta-Analysis.

Seizures in children undergoing extracorporeal membrane oxygenation: a systematic review and meta-analysis.

Serum Vitamin D Level and Efficacy of Vitamin D Supplementation in Children with Atopic Dermatitis: A Systematic Review and Meta-analysis.

Sodium assessment in neonates, infants, and children: a systematic review.

Surgical Antibiotic Prophylaxis in Children Undergoing Surgery: A Systematic Review and Meta-Analysis.

The survival rate of liver transplantation in children: a systematic review and meta-analysis.

A systematic review and meta-analysis of otorhinolaryngological manifestations of coronavirus disease 2019 in paediatric patients.

A systematic review of clinical study evidence for pulmonary vasodilator therapy following surgery with cardiopulmonary bypass in children with CHD.

A systematic review of patient-reported outcome measures in paediatric endocrinology.

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

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

Total Esophagogastric and Cologastric Dissociation in Neurologically Normal Children: Systematic Review.

Videolaryngoscopes versus direct laryngoscopes in children: Ranking systematic review with network meta-analyses of randomized clinical trials.

Water protection in paediatric patients with ventilation tubes: Myth or reality? A systematic review.

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This month's clinical questions are...

How do antiepileptic drugs compare for people with focal epilepsy?

How do antiepileptic drugs compare for people with generalized tonic-clonic seizures?

What is the accuracy of rapid, point-of-care antigen tests for the diagnosis of SARS-CoV-2 infection?

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## Primary Research

Arginine Therapy and Cardiopulmonary Hemodynamics in Hospitalized Children with Sickle Cell Anemia: A Prospective, Double-blinded, Randomized Placebo-controlled Clinical Trial.

Children's Oncology Group Trial AALL1231: A Phase III Clinical Trial Testing Bortezomib in Newly Diagnosed T-Cell Acute Lymphoblastic Leukemia and Lymphoma.

Comparison of diagnostic criteria for acute kidney injury in critically ill children: a multicenter cohort study

Cost-effectiveness of physiotherapy in childhood functional constipation: a randomized controlled trial in primary care.

Does digital, multimedia information increase recruitment and retention in a children's wrist fracture treatment trial, and what do people think of it? A randomised controlled Study Within A Trial (SWAT).

Dolutegravir twice-daily dosing in children with HIV-associated tuberculosis: a pharmacokinetic and safety study within the open-label, multicentre, randomised, non-inferiority ODYSSEY trial.

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

Effects of prophylactic antibiotic administration and antibiotic timing on culture results and clinical outcomes of paediatric musculoskeletal infection: a protocol for a randomised controlled clinical trial.

Effectiveness-implementation hybrid-2 randomised trial of a collaborative Shared Care Model for Detecting Neurodevelopmental Impairments after Critical Illness in Young Children (DAISY): pilot study protocol.

Effects of Multispecies Synbiotic Supplementation on Anthropometric Measurements, Glucose and Lipid Parameters in Children With Exogenous Obesity: A Randomized, Double Blind, Placebo-Controlled Clinical Trial (Probesity-2 Trial).

Efficacy, Safety and Mechanism of Jinzhen Oral Liquid in the Treatment of Acute Bronchitis in Children: A Randomized, Double-Blind, Multicenter Clinical Trial Protocol.

Efficacy and safety of low dose oral ketamine for controlling pain and distress during intravenous cannulation in children: a double-blind, randomized, placebo-controlled trial.

Efficacy and tolerability of brivaracetam monotherapy in childhood and juvenile absence epilepsy: An innovative adaptive trial design.

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

Evaluation of the effect of perioperative administration of S(+)-ketamine hydrochloride injection for postoperative acute pain in children: study protocol for a prospective, multicenter, randomized, open-label, parallel-group, pragmatic clinical trial.

Impact of COVID-19 on childhood obesity: Data from a paediatric weight management trial.

Infant massage and brain maturation measured using EEG: A randomised controlled trial.

Intravenous ondansetron reduced nausea but not pruritus following intrathecal morphine in children: Interim results of a randomized, double-blinded, placebo-control trial.

Oral Realgar-Indigo Naturalis Formula Treatment for Acute Promyelocytic Leukemia in Children: A Randomized, Control Clinical Trial.

A phase III clinical trial evaluating efficacy and safety of minimal residual disease-based risk stratification for children with acute myeloid leukemia, incorporating a randomized study of gemtuzumab ozogamicin in combination with post-induction chemotherapy for non-low-risk patients (JPLSG-AML-20).

A Phase 3, open-label, 96-week trial to study the safety, tolerability, and efficacy of tezacaftor/ivacaftor in children  $\geq 6$  years of age homozygous for F508del or heterozygous for F508del and a residual function CFTR variant.

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

Randomized controlled phase 2 trial of hydroxychloroquine in childhood interstitial lung disease.

Randomized controlled trial to compare safety and efficacy of mycophenolate vs. cyclosporine after rituximab in children with steroid-resistant nephrotic syndrome.

*Saccharomyces boulardii* and Lactulose for Childhood Functional Constipation: A Multicenter Randomized Controlled Trial.

Safety and efficacy of telitacicept in refractory childhood-onset systemic lupus erythematosus: A self-controlled before-after trial.

Therapeutic effectiveness of green tea leaf extract on clinical symptoms in children suffering viral gastroenteritis: A randomized clinical trial.

Topical Sucralfate for Prevention of Peristomal Wound Reaction related to Percutaneous Endoscopic Gastrostomy in Children: A Randomized Controlled Trial.

Weight Stigma by Association Among Parents of Children With Obesity: A Randomized Trial.

Topic: [Abetalipoproteinaemia](#)

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

Topic: [Enuresis](#)

Topic: [Ventricular septal defects](#)

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## Paediatrics in the News

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

[NHS boosts children's mental health workforce by 40%](#)

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

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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](#)

# National Institute for Health Research (NIHR)



No updates.

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[COVID-19 vaccination in patients with inflammatory bowel disease](#)

[Low-intensity guided self-help intervention for childhood obesity](#)

[Management of pediatric torus \(buckle\) fractures of the wrist](#)

[Racial disparities in genetic testing](#)

[Risk factors for thunderstorm asthma](#)

[Visual and vestibular assessments in children with concussion](#)

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