

Paediatrics Evidence Update March 2022

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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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Contents (click title to view)

NICE Guidance	Other Guidance
Cochrane Systematic Reviews	Systematic reviews from other sources
Cochrane clinical answers	Primary Research
BMJ Best Practice	Paediatric health in the News
Online Resources	Electronic Journals
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Most recent guidance published:

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

[Diabetes \(type 1 and type 2\) in children and young people: diagnosis and management \[NG18\]](#)

[Disabled children and young people up to 25 with severe complex needs: integrated service delivery and organisation across health, social care and education \[NG213\]](#)

[Mental wellbeing at work \[NG212\]](#)

Other Guidance/Reports

[Diabetes in children and young people \[QS125\]](#)

[Neonatal parenteral nutrition \[QS205\]](#)



Systematic Reviews and Research Protocols

[Oral dextrose gel for the treatment of hypoglycaemia in newborn infants](#)

[Periodic change of body position under phototherapy in term and preterm neonates with hyperbilirubinaemia](#)

[Probiotics for treatment of chronic constipation in children](#)

Strategies for using topical corticosteroids in children and adults with eczema

Synbiotics to prevent necrotising enterocolitis in very preterm or very low birth weight infants

Vitamin A supplementation for preventing morbidity and mortality in children from six months to five years of age

Systematic reviews from other sources

Child Adversity and Trauma-Informed Care Teaching Interventions: A Systematic Review.

Clinical supervision practice by community-based child and family health nurses: A mixed-method systematic review.

Conflict and Child Malnutrition: a Systematic Review of the Emerging Quantitative Literature.

Diffusion tensor imaging indices as biomarkers for cognitive changes following paediatric radiotherapy: a systematic review and meta-analysis.

The effectiveness of user-focused mobile health applications in paediatric chronic disease management: A systematic review.

Exposure to magnetic fields and childhood leukemia: a systematic review and meta-analysis of case-control and cohort studies.

Gross motor disorders in pediatric patients with acute lymphoblastic leukemia and survivors: A systematic review.

Heart failure in childhood cancer survivors-a systematic review protocol.

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

Infant Formulas With Postbiotics: An Updated Systematic Review.

Infant looking preferences towards dynamic faces: A systematic review.

Interventions to reduce acute paediatric hospital admissions: a systematic review.

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

Nurses and nursing students' experiences on pediatric end-of-life care and death: A qualitative systematic review.

Paediatric brain MRI findings following congenital heart surgery: a systematic review.

Paediatric chronic pain prevalence in low- and middle-income countries: A systematic review and meta-analysis.

Percutaneous transhepatic interventional therapy of portal vein stenosis in paediatric liver transplantation: A systematic review of efficacy and safety.

SARS-CoV-2 positivity in offspring and timing of mother-to-child transmission: living systematic review and meta-analysis.

Social Cognition in Paediatric Traumatic Brain Injury: A Systematic Review and Meta-analysis.

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

A systematic review of conversion factors between kerma-area product and effective/organ dose for cardiac interventional fluoroscopy procedures performed in adult and paediatric patients.

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



This month's clinical questions are...

Does idebenone help prevent respiratory decline in young people with Duchenne muscular dystrophy and progressive respiratory decline?

Does palivizumab help prevent severe respiratory syncytial virus (RSV) infection in infants?

How do cuffed endotracheal tubes compare with uncuffed endotracheal tubes for neonates and young infants requiring mechanical ventilation?

Primary Research

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

Effect of Caffeine on the Acceleration of Emergence from General Anesthesia with Inhalation Anesthetics in Children Undergoing Inguinal Herniorrhaphy: A Randomized Clinical Trial.

Effect of vitamin D on lung function assessed by forced oscillation technique in asthmatic children with vitamin D deficiency: A randomized double-blind placebo-controlled trial.

Effectiveness of acupuncture therapy for preventing emergence agitation in children: A protocol for systematic review and meta-analysis with trial sequential analysis.

Evaluation of Daily Low-Dose Prednisolone During Upper Respiratory Tract Infection to Prevent Relapse in Children With Relapsing Steroid-Sensitive Nephrotic Syndrome: The PREDNOS 2 Randomized Clinical Trial.

The Glycemic Response to Infant Formulas: A Randomized Clinical Trial.

Hybrid closed-loop insulin delivery versus sensor-augmented pump therapy in children aged 6-12 years: a randomised, controlled, cross-over, non-inferiority trial.

Immersive Reality Experience Technology for Reducing Social Isolation and Improving Social Connectedness and Well-being of Children and Young People Who Are Hospitalized: Open Trial.

Immunological Effects of Adding Bovine Lactoferrin and Reducing Iron in Infant Formula: A Randomized Controlled Trial.

Improving neurodevelopment in Zika-exposed children: A randomized controlled trial.

Integrative Neuromuscular Training in Adolescents and Children Treated for Cancer (INTERACT): Study Protocol for a Multicenter, Two-Arm Parallel-Group Randomized Controlled Superiority Trial.

Multicenter randomized clinical trial comparing dexamethasone versus placebo in preventing upper airway obstruction after extubation in critically ill children.

Multicentre randomised controlled trial: protocol for Plasma-Lyte Usage and Assessment of Kidney Transplant Outcomes in Children (PLUTO).

Nasal carriage of *Staphylococcus aureus* in children with grass pollen-induced allergic rhinitis and the effect of polyvalent mechanical bacterial lysate immunostimulation on carriage status: A randomized controlled trial.

An open-label phase 2 trial to assess the efficacy, safety and pharmacokinetics of lanthanum carbonate in hyperphosphatemic children and adolescents with chronic kidney disease undergoing dialysis.

Pesky gNATs for children experiencing low mood and anxiety - A pragmatic randomised controlled trial of technology-assisted CBT in primary care.

A Phase II Trial of a Personalized, Dose-Intense Administration Schedule of (177)Lutetium-DOTATATE in Children With Primary Refractory or Relapsed High-Risk Neuroblastoma-LuDO-N.

Phase 3 trial of lumasiran for primary hyperoxaluria type 1: A new RNAi therapeutic in infants and young children.

Study protocol of a randomised controlled trial for the effectiveness of a functional partial body weight support treadmill training (FPBWSTT) on motor and functional skills of children with ataxia.

Super Bolus: a remedy for a high glycemic index meal in children with type 1 diabetes on insulin pump therapy?-study protocol for a randomized controlled trial.

Tracking Demographic Movements and Immunization Status to Improve Children's Access to Immunization: Field-Based Randomized Controlled Trial.

Virtual reality-based distraction for intravenous insertion-related distress in children: a study protocol for a randomised controlled trial.

Whole blood versus red cell concentrates for children with severe anaemia: a secondary analysis of the Transfusion and Treatment of African Children (TRACT) trial.



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Topic: [Acute varicella-zoster](#)

Topic: [Chronic granulomatous disease](#)

Topic: [Common cold](#)

Topic: [Haemophilia](#)

Topic: [Meconium aspiration syndrome](#)

Topic: [Neuroblastoma](#)

Topic: [Osteochondritis dissecans](#)

Topic: [Rubella](#)

Topic: [Sickle cell anaemia](#)

Paediatrics in the News

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

[Five million 5 to 11 year olds to get COVID vaccine as NHS bookings open](#)

[Hundreds of extra appointments at children's hospitals on 'Super Saturday'](#)

[NHS booster bookings open for most vulnerable 12 to 15 year olds](#)

[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](#)

[NHS treating record number of young people for eating disorders](#)

[Ukrainian refugee children to begin lifesaving NHS cancer care](#)

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)



Children with tics can be helped by a new online treatment

How can we better support parents when their newborn baby is dying?

Inequalities increase when children have stomach bugs

Why don't children and young people engage with diabetes services?



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Evidence-informed milestone checklists for developmental surveillance

Omicron variant associated with increased COVID-19 hospitalizations in children

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