

Paediatrics Evidence Update April 2021

Produced by the Clinical Librarian Service

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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

[Click here to start search
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DynaMed Plus

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KnowledgeShare

Would you like your own, tailored evidence updates? [Email the Clinical Librarian team](#) to receive bulletins every two weeks on the topics of your choice.

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	DynamedPlus
Paediatric health in the News	Online Resources
Electronic Journals	UpToDate



Most recent guidance published:

No updates.

Other Guidance/Reports

No updates.



Systematic Reviews and Research Protocols

[Day care as a strategy for drowning prevention in children under 6 years of age in low- and middle-income countries](#)

Systematic reviews from other sources

[Anorectal manometry in pediatric settings: A systematic review of 227 studies.](#)

[Bisphosphonate Therapy for Treating Osteonecrosis in Pediatric Leukemia Patients: A Systematic Review.](#)

[Caregiver experiences of paediatric inpatient cardiac services: A qualitative systematic review.](#)

Child mental health literacy training programmes for professionals in contact with children: A systematic review.

Clinical, laboratory, and imaging features of pediatric COVID-19: A systematic review and meta-analysis.

Coexisting Retrocerebellar Arachnoid Cyst and Chiari Type 1 Malformation: 3 Pediatric Cases of Surgical Management Tailored to the Pathogenic Mechanism and Systematic Review of the Literature.

Diagnostic Errors in Pediatric Critical Care: A Systematic Review.

Diagnostic performance of adult-based ATA and ACR-TIRADS ultrasound risk stratification systems in pediatric thyroid nodules: a systematic review and meta-analysis.

Effect of general anaesthesia on intraocular pressure in paediatric patients: a systematic review.

Effect of budesonide on hospitalization rates among children with acute asthma attending paediatric emergency department: a systematic review and meta-analysis.

Efficacy and safety of pediatric massage in the treatment of anorexia: A protocol for systematic review and meta-analysis.

Measurable residual disease in pediatric acute myeloid leukemia: a systematic review.

Mental health after paediatric concussion: a systematic review and meta-analysis.
Paediatric adhesive bowel obstruction: a systematic review.

Pediatric Abusive Head Trauma: A Systematic Review.

Prevalence of Hypertension and Albuminuria in Pediatric Type 2 Diabetes: A Systematic Review and Meta-analysis.

Protocol for a systematic review on the role of the gut microbiome in paediatric neurological disorders.

Risk factors for steroid-induced adverse psychological reactions and sleep problems in pediatric acute lymphoblastic leukemia: A systematic review.

Safety and Efficacy of the Combination of Propofol and Ketamine for Procedural Sedation/Anesthesia in the Pediatric Population: A Systematic Review and Meta-analysis.

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

Strategies to reduce attrition in managing paediatric obesity: A systematic review.
Surgical outcomes in paediatric lateral condyle non-union: A systematic review and meta-analysis.

Systematic Review and Meta-analysis of CD19-Specific CAR-T Cell Therapy in Relapsed/Refractory Acute Lymphoblastic Leukemia in the Pediatric and Young Adult Population: Safety and Efficacy Outcomes.

Systematic Review: Psychosocial Correlates of Pain in Pediatric Inflammatory Bowel Disease.

Treatment of Pediatric Alopecia Areata: A Systematic Review.

This month's clinical questions are...

For children with chronic asthma receiving inhaled corticosteroids (ICSs), how does adjunct formoterol compare with salmeterol in terms of serious adverse events?

For healthy children under the age of three years, what are the effects of zinc supplements for preventing otitis media?

For infants and children younger than 5 years of age, what are the effects of vitamin D supplementation on linear growth and other health outcomes?

What are the effects of antidepressants for children and adolescents with functional abdominal pain disorders?

What are the effects of nebulized deoxyribonuclease (rhDNase) for children under 24 months of age with viral bronchiolitis?

What are the benefits and harms of ibuprofen for preventing patent ductus arteriosus (PDA) in preterm and/or low birth weight infants?

What is the impact of nutritional standards on the consumption/sales of sugar-sweetened beverages in schools?

Primary Research

Title: [The effect of saline versus air for cuff inflation on the incidence of high intra-cuff pressure in paediatric MicroCuff ® tracheal tubes: a randomised controlled trial](#)

Abstract/Conclusion: The use of saline to inflate the cuff of paediatric cuffed tubes reduces the incidence of high intra-cuff pressures during anaesthesia. This may provide a pragmatic extra safety barrier to help reduce the incidence of excessive tracheal cuff pressure when nitrous oxide is used during paediatric anaesthesia.

Title: [Health behaviour outcomes of a family based intervention for paediatric obesity in primary care: A randomized type II hybrid effectiveness-implementation trial.](#)

Abstract/Conclusion: The FCU4Health, delivered in coordination with paediatric primary care, significantly impacted child and family health behaviours that are associated with the development and maintenance of paediatric obesity. BMI did not significantly differ.

Title: [Healthcare professionals' views of the use of oral morphine and transmucosal diamorphine in the management of paediatric breakthrough pain and the feasibility of a randomised controlled trial: A focus group study \(DIPPER\)](#)

Abstract/Conclusion: There were perceived advantages to transmucosal diamorphine, but there is a need for access to a safe preparation. A clinical trial would be feasible provided barriers were overcome.

Title: [A Mixed-Methods Analysis of Medication Safety Incidents Reported in Neonatal and Children's Intensive Care](#)

Abstract/Conclusion: Neonates were commonly involved in medication-related incidents reported in children's intensive care settings. Improvements in staffing and workload, design of systems and processes, and the use of anti-infective medications may reduce this risk.

Title: [Racial and Ethnic Diversity in Studies Funded Under the Best Pharmaceuticals for Children Act](#)

Abstract/Conclusion: This study revealed no evidence of racial and ethnic bias in enrollment for pediatric studies conducted with funding from BPCA, fulfilling the legislation's expectation to ensure adequate representation of all children.

Title: [To prescribe or not to prescribe for paediatric sore throat: a retrospective cohort study comparing clinician-led antibiotic prescriptions to FeverPAIN and Centor scoring in a tertiary paediatric emergency department and a national review of practice.](#)

Abstract/Conclusion: Current guidance is variably interpreted and inconsistently implemented in paediatric populations. FeverPAIN and Centor scoring systems may not rationalise antibiotics as much as previously reported compared with judicious clinician practice. Producing clear paediatric-specific national guidelines, especially for under-5s who are omitted from NICE sore throat guidance, may help further rationalise and standardise antibiotic use in paediatric tonsillopharyngitis.



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

Topic: [Acne vulgaris](#)

Topic: [Attention deficit hyperactivity disorder in children](#)

Topic: [Sickle cell anaemia](#)

DynaMed Plus[®]

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No updates.

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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[Delayed cord clamping versus cord milking in preterm infants](#)

[Duration of antimicrobial therapy for CAP in nonhospitalized children](#)

[Newborn screening for congenital CMV infection](#)

[Pediatric hidradenitis suppurativa](#)

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