

Paediatrics Evidence Update May 2021

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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

[Click here to start search
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DynaMed Plus

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UpToDate

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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

[New generation antidepressants for depression in children and adolescents: a network meta-analysis](#)

[Sedatives for opioid withdrawal in newborn infants](#)

[Surfactant therapy via thin catheter in preterm infants with or at risk of respiratory distress syndrome](#)

[Topical emollient for preventing infection in preterm infants](#)

Systematic reviews from other sources

[Assessing procedural satisfaction in the pediatric ED: A systematic review.](#)

Association between child/adolescent overweight/obesity and conduct disorder: A systematic review and meta-analysis.

The association between childhood adiposity and appetite assessed using the Child Eating Behavior Questionnaire and Baby Eating Behavior Questionnaire: A systematic review and meta-analysis.

Association between a soy-based infant diet and the onset of puberty: A systematic review and meta-analysis.

Cerebrospinal fluid leakage after cranial surgery in the pediatric population-a systematic review and meta-analysis.

Family presence during resuscitation in paediatric and neonatal cardiac arrest: A systematic review.

Health-related quality of life in paediatric patients with vitiligo: a systematic review and meta-analysis.

The Impact of Specialty Palliative Care in Pediatric Oncology: A Systematic Review.

Intermittently Scanned and Continuous Glucose Monitor Systems: A Systematic Review on Psychological Outcomes in Pediatric Patients.

Is lateral ankle sprain of the child and adolescent a myth or a reality? A systematic review of the literature.

The long-term effect of prenatal progesterone treatment on child development, behaviour and health: a systematic review.

Negative Pressure Wound Therapy in Pediatric Burn Patients: A Systematic Review.

Neonatal and infant mortality associated with spina bifida: A systematic review and meta-analysis.

Nonpharmacological interventions to reduce sedation/general anaesthesia in paediatric patients undergoing magnetic resonance imaging: A systematic review and meta-analysis protocol.

Paediatric laryngeal squamous cell carcinoma: Systematic review and pooled analysis.

Paediatric nurses', children's and parents' adherence to infection prevention and control and knowledge of antimicrobial stewardship: A systematic review.

Population Pharmacokinetic Models of Vancomycin in Paediatric Patients: A Systematic Review.

Prenatal Methamphetamine Exposure: Effects on Child Development - A Systematic Review.

Sodium bicarbonate administration during in-hospital pediatric cardiac arrest: A systematic review and meta-analysis.

Surgical shunts for extrahepatic portal vein obstruction in pediatric patients: a systematic review.

Tissue adhesive and adhesive tape for pediatric wound closure: A systematic review and meta-analysis.

This month's clinical questions are...

Can prophylactic antibiotics help to prevent pneumococcal infection in children with sickle cell disease?

For children and adolescents with depression, how do new-generation antidepressants compare?

For children with type 1 diabetes mellitus, how do (ultra-)long-acting insulin analogs compare?

For children with type 1 diabetes mellitus, how do (ultra-)long-acting insulin analogs compare with neutral protamine Hagedorn (NPH) insulin?

How does oral amoxicillin compare with placebo for young children with World Health Organization (WHO)-defined non-severe pneumonia and wheeze?

Primary Research

Title: [Diagnosis of acute appendicitis in children using urinary 5-hydroxy indol acetic acid and pediatric appendicitis score: A randomized control trial](#)

Abstract/Conclusion: This combination of urinary 5-HIAA and pediatric appendicitis score builds a model for diagnosis of acute appendicitis in children. This model improves the accuracy of diagnosis of acute appendicitis, reduces both the incidence of negative appendectomies and the incidence of readmission or missed cases in children.

Title: [How can we optimise the pharmaceutical analysis of radiopharmaceutical pediatric prescriptions?](#)

Abstract/Conclusion: The resulting flow chart will secure the pharmaceutical analysis step for this special patient population.

Title: [Prospect of Direct Benefit in Pediatric Trials: Practical Challenges and Potential Solutions.](#)

Abstract/Conclusion: Clinical research in pediatric patients is necessary to develop safe and effective medicines for children. US Food and Drug Administration (FDA) human subject protection regulations (21 Code of Federal Regulations 50, subpart D) require that, with limited exceptions, research in children that exceeds a defined level of risk must offer a prospect of direct benefit to the individual child that is sufficient to justify those risks. Growing attention to the merits of initiating pediatric clinical trials earlier in the drug and biological product development process has led the FDA to look more closely at the meaning of the regulatory term prospect of direct benefit.

Title: [Stakeholder selected strategies for obesity prevention in childcare: results from a small-scale cluster randomized hybrid type III trial](#)

Abstract/Conclusion: Findings were mixed but suggested promise for the Enhanced strategy, especially considering key events of the study. Implementation fidelity improvements occurred mainly in the last 3 months of the school year; additional time may be needed to translate to improvements in child outcomes.

Topic: [Autism spectrum disorder](#)

Topic: [Sepsis in children](#)

Topic: [Tuberous sclerosis complex](#)

DynaMed Plus

Athens is required for off-site access to DynamedPlus

No updates.

Paediatrics in the News

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

[Dangers of children swallowing magnets prompts NHS call for ban](#)

[Dozens of unborn babies receive op on NHS to stop paralysis](#)

[More than a million children given access to NHS mental health support at school](#)

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)



Preventing childhood obesity requires a shift in focus away from individual behaviours towards the wider environment



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[Diagnostic testing for non-alcoholic fatty liver disease](#)

[Labor epidurals and autism](#)

[Microbiota-directed complementary food for children with moderate acute malnutrition](#)

[Neonatal outcome of maternal COVID-19](#)

[Recombinant factor VIIa in Glanzmann thrombasthenia](#)

[Stimulants versus alpha-2-adrenergic agonists for preschool children with ADHD](#)

[Thrombotic complications in pediatric patients with COVID-19 and MIS-C](#)

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