

Paediatrics Evidence Update September 2020

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.



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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	DynamedPlus
Paediatric health in the News	Online Resources
Electronic Journals	

NICE
National Institute for
Health and Care Excellence

Most recent guidance published:

No updates.

Other Guidance/Reports

No updates.



Cochrane
Library

Systematic Reviews and Research Protocols

[Carbohydrate supplementation of human milk to promote growth in preterm infants](#)

[Interventions for preventing ophthalmia neonatorum](#)

[Procalcitonin, C-reactive protein, and erythrocyte sedimentation rate for the diagnosis of acute pyelonephritis in children](#)

[Protein supplementation of human milk for promoting growth in preterm infants](#)

Systematic reviews from other sources

Acupoint application for rotavirus diarrhea in infants and children: A protocol for systematic review and meta analysis.

Characteristics of parental decision-making for children with advanced cancer who are offered enrollment in early-phase clinical trials: A systematic review.

Demographic and Psychosocial Factors Associated With Child Sexual Exploitation: A Systematic Review and Meta-analysis.

Dexamethasone dosing for prevention of acute chemotherapy-induced vomiting in pediatric patients: A systematic review.

Dexamethasone or combined with others for postoperative nausea and vomiting in children: A systematic review.

Diagnosis of oculomotor anomalies in children with learning disorders.

Disparities in Adult and Pediatric Trauma Outcomes: a Systematic Review and Meta-Analysis.

Duration of Respiratory and Gastrointestinal Viral Shedding in Children With SARS-CoV-2: A Systematic Review and Synthesis of Data.

The effectiveness and safety of Tanreqing Injection combined with ganciclovir on the treatment of respiratory syncytial virus pneumonia in children: A protocol for systematic review and meta-analysis of randomized controlled trials.

The efficacy and safety of Chinese herbal compound or combined with western medicine for pediatric adenoidal hypertrophy: A protocol for systematic review and meta-analysis.

Evaluating the efficacy and safety of bromhexine hydrochloride tablets in treating pediatric COVID-19: A protocol for meta-analysis and systematic review.

The Impact of Family Environment on Language Development of Children With Cochlear Implants: A Systematic Review and Meta-Analysis.

The Impact of Overweight and Obesity on Plantar Pressure in Children and Adolescents: A Systematic Review.

Motor performance and back pain in children and adolescents: a systematic review and meta-analysis protocol.

Pediatric COVID-19: Systematic review of the literature.

Pediatric Neurogenic Bladder and Bowel Dysfunction: Will My Child Ever Be out of Diapers?

Polyvictimization and psychopathology among children and adolescents: A systematic review of studies using the Juvenile Victimization Questionnaire.

Predicting Outcomes in Pediatric Ulcerative Colitis for Management Optimization: Systematic Review and Consensus Statements from PIBD-Ahead Program.

The relationship between chronic health conditions and cognitive deficits in children, adolescents, and young adults with down syndrome: A systematic review.

[Return to play after brain tumor surgery in children.](#)

[Review of clinical characteristics and laboratory findings of COVID-19 in children-Systematic review and Meta-analysis.](#)

[School absenteeism as a risk factor for self-harm and suicidal ideation in children and adolescents: a systematic review and meta-analysis.](#)

[Systematic Review and Meta-analysis: Mental Health in Children With Neurogenetic Disorders Associated With Intellectual Disability.](#)

[A Systematic Review and Meta-analysis of Paediatric Inflammatory Bowel Disease Incidence and Prevalence Across Europe.](#)

[Systematic review of infant and young child feeding practices in conflict areas: what the evidence advocates.](#)

[A Systematic Review of Multisystem Inflammatory Syndrome in Children Associated With SARS-CoV-2 Infection.](#)

[A systematic review of prevention and treatment of infantile colic.](#)

[Trends in clinical presentation of children with COVID-19: a systematic review of individual participant data.](#)



This month's clinical questions are...

No updates.

Primary Research

Title: [Analysis of Pediatric Drug Approval Lag in Japan](#)

Abstract/Conclusion: Global clinical trials are the most effective means of shortening approval lag time in pediatric drug development. Global development is making rapid progress for many adult diseases, thereby creating an environment for proactive participation in global clinical trials even for pediatric drugs. For further improvement, more active drug development for pediatric indication is recommended in tandem with the US and the EU.

Title: [Association of Selective Serotonin Reuptake Inhibitors With the Risk of Type 2 Diabetes in Children and Adolescents](#)

Abstract/Conclusion: These findings suggest that children and adolescents initiating SSRI treatment may be at a small increased risk of developing T2D, particularly publicly insured patients. The magnitude of association was more modest than previously reported, and the absolute risk was small. The potential small risk should be viewed in relation to the efficacy of SSRIs for its major indications in young patients.

Title: [Bayesian Design for Pediatric Clinical Trials with Binary Endpoints When Borrowing Historical Information of Treatment Effect](#)

Abstract/Conclusion: The efficacy evaluation in pediatric population is an important component of drug development and is generally required by the regulatory agencies. It is often challenging to

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enroll pediatric subjects for a large trial especially when the incidence rate is low in certain disease areas.

Title: [Brainwave entrainment to minimise sedative drug doses in paediatric surgery: a randomised controlled trial](#)

Abstract/Conclusion: Brainwave entrainment effectively reduced the propofol infusion rates required for sedation in children undergoing surgery with regional anaesthesia. Further studies are needed to investigate the possibility of phasing out propofol infusions completely during longer surgical procedures and optimising the settings of brainwave stimulation.

Title: [Ethical Considerations for Pediatric Placebo-Controlled Trials: FDA Outcomes and Perspectives](#)

Abstract/Conclusion: When designed and conducted appropriately, placebo-controlled trials meet requirements under current US federal regulations for the protection of children in research.

Title: [Prescribing in a paediatric emergency: A PERUKI Survey of Prescribing and Resuscitation Aids.](#)

Abstract/Conclusion: Our survey shows a high penetrance of the British National Formulary app, a success of NHS digital policy and strategy. Despite potential advantages, many physicians in our survey do not use resuscitation apps. Reluctance to engage with apps is likely to be multifactorial and includes human factors. These obstacles need to be overcome to create a digital healthcare culture.

The logo for BMJ Best Practice, featuring the letters 'BMJ' in a bold, white font inside a blue square, followed by the words 'Best Practice' in a white, sans-serif font on a blue rectangular background.

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

Topic: [Absence seizures](#)

Topic: [Common cold](#)

Topic: [Glucose-6-phosphate dehydrogenase deficiency](#)

Topic: [Hypogammaglobulinaemia](#)

Topic: [Minimal change disease](#)

Topic: [Ventricular septal defects](#)

The logo for DynaMed Plus, with the word 'DynaMed' in a dark teal font and 'Plus' in a lighter teal font, both in a sans-serif typeface.

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No updates.

Paediatrics in the News

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

[NHS announces independent review into gender identity services for children and young people](#)

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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

[NHS Choices](#) - Behind the Headlines – the latest newspaper headlines debunked.

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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