

Paediatrics Evidence Update November 2020

Produced by the Clinical Librarian Service

To access resources click on the blue hyperlinks, if you are unable to read the full text of any item please contact the Clinical Librarian team or make an article request using [this form](#).

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.

You can contact us by email at Clinical.Librarian@porthosp.nhs.uk or call extension 6042.

Alternatively you can contact one of the team directly:

Aaron.Razack@porthosp.nhs.uk

Rebecca.Howes@portshosp.nhs.uk

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.



[Click here to access on site](#)

[Click here to access from home with OpenAthens](#)



[Click here to start search \(Intranet only\)](#)

Or [via OpenAthens](#)



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	



Most recent guidance published:

No updates.

Other Guidance/Reports

No updates.



Systematic Reviews and Research Protocols

[Cognitive behavioural therapy for anxiety disorders in children and adolescents](#)

[Comparison of different protein concentrations of human milk fortifier for promoting growth and neurological development in preterm infants](#)

[Individualized versus standard diet fortification for growth and development in preterm infants receiving human milk](#)

[Mechanically assisted walking training for walking, participation, and quality of life in children with cerebral palsy](#)

[Pneumococcal conjugate vaccines for preventing acute otitis media in children](#)

[Yttrium-90 microsphere radioembolisation for unresectable hepatocellular carcinoma](#)

Systematic reviews from other sources

ADHD and Exposure to Maltreatment in Children and Youth: a Systematic Review of the Past 10 Years.

Aminophylline for improving acute kidney injury in pediatric patients: A systematic review and meta-analysis.

Anxiety and intellectual functioning in autistic children: A systematic review and meta-analysis.

Case report and systematic review suggest that children may experience similar long-term effects to adults after clinical COVID-19.

Child and Family Outcomes Following Pandemics: A Systematic Review and Recommendations on COVID-19 Policies.

Differential Diagnosis of Acute Liver Failure in Children: A Systematic Review.

Effect of Virtual Reality Therapy on Balance and Walking in Children with Cerebral Palsy: A Systematic Review.

Epigastric Hernias in Children: A Personal Series and Systematic Review of the Literature.

Factors associated with food neophobia in children: systematic review.

Factors associated with gross motor development from birth to independent walking: A systematic review of longitudinal research.

Giant Cerebellar Cavernomas in Pediatric Patients: Systematic Review with Illustrative Case.

The information needs of parents of children with early-onset epilepsy: A systematic review.

Management of perianal abscesses in infants without general anaesthesia: a systematic review of the literature.

Motor Impairment in Children With Congenital Heart Defects: A Systematic Review.

Pediatric Medial Epicondyle Fracture Management: A Systematic Review.

Pediatric relapsed acute myeloid leukemia: a systematic review.

Rapid Systematic Review: The Impact of Social Isolation and Loneliness on the Mental Health of Children and Adolescents in the Context of COVID-19.

The role of emotion regulation in socially anxious children and adolescents: a systematic review.

Speech-language disorders in children with congenital Zika virus syndrome: A systematic review.

Systematic Review of Endoscopic Ear Surgery Outcomes for Pediatric Cholesteatoma.

A Systematic Review of Multisystem Inflammatory Syndrome in Children Associated With SARS-CoV-2 Infection.

What factors are associated with obesity-related health behaviours among child refugees following resettlement in developed countries? A systematic review and synthesis of qualitative and quantitative evidence.

Does taxation based on the fat content of food reduce fat consumption or improve health outcomes of the general population?

For children with an acute exacerbation of asthma, what are the effects of second-line inhaled bronchodilators?

For children with an acute exacerbation of asthma, what are the effects of second-line parenteral bronchodilators?

How do alarm interventions compare with desmopressin for children with nocturnal enuresis?

How do alarm interventions compare with other behavioral interventions for children with nocturnal enuresis?

How do alarm interventions compare with wait-list or no treatment for children with nocturnal enuresis?

May telemedicine provide support to parents of high-risk newborn infants?

What are the effects of specialist home-based nursing services for children with acute and chronic illness?

What is the prevalence of severe fatigue among people who have been treated for childhood cancer?

Primary Research

Title: [Acute Cardiovascular Manifestations in 286 Children with Multisystem Inflammatory Syndrome Associated with COVID-19 Infection in Europe](#)

Abstract/Conclusion: Cardiac involvement is common in children with multisystem inflammatory syndrome associated with Covid-19 pandemic. A majority of children have significantly raised levels of NT pro-BNP, ferritin, D-dimers and cardiac troponin in addition to high CRP and procalcitonin levels. Compared to adults with Covid-19, mortality in children with MIS-C is uncommon despite multi-system involvement, very elevated inflammatory markers and need for intensive care support.

Title: [Effect of Nebulized Magnesium vs Placebo Added to Albuterol on Hospitalization Among Children With Refractory Acute Asthma Treated in the Emergency Department: A Randomized Clinical Trial](#)

Abstract/Conclusion: Among children with refractory acute asthma in the emergency department, nebulized magnesium with albuterol, compared with placebo with albuterol, did not significantly decrease the hospitalization rate for asthma within 24 hours. The findings do not support use of nebulized magnesium with albuterol among children with refractory acute asthma.

Title: [Evaluation of the intratidal compliance profile at different PEEP levels in children with healthy lungs: a prospective, crossover study.](#)

Abstract/Conclusion: Intratidal compliance at different PEEP levels varied widely in young children under general anaesthesia. These data suggest that individualised PEEP levels are required for optimal lung protection in children.

Title: [Helping parents of children with respiratory infections decide when to seek medical help: an appropriateness study](#)

Abstract/Conclusion: We have defined the respiratory tract infection symptoms that parents might regard as 'normal' and therefore suitable for care at home. These results could help parents decide when to home care and when to seek medical help for children with RTIs.

Title: [Improving case detection of tuberculosis in hospitalised Kenyan children—employing the behaviour change wheel to aid intervention design and implementation](#)

Abstract/Conclusion: The intervention components were selected for their effectiveness (from literature), affordability, acceptability, and practicability and designed so that TB programme officers and hospital managers can be supported to implement them with relative ease, alongside their daily duties. This work contributes to the field of implementation science by utilising clear definitions and descriptions of underlying mechanisms of interventions that will guide others to do likewise in their settings for similar problems.

Title: [Increasing safety and the resilience of children at risk of technology-assisted child sexual abuse: implementation evaluation for InCtrl \(PDF\)](#)

Abstract/Conclusion: The pilot of InCtrl has demonstrated that the service can work well, appears to achieve intended intermediate outcomes and merits further development. Clarification of whether the service model should be universal, targeted or determined locally is needed to inform future development. At the time of writing, an adapted one-to-one version of InCtrl is being delivered virtually while children are at home during the COVID-19 pandemic. Although this method of delivery has limitations, it has demonstrated the adaptability of the InCtrl service model and provided useful learning for future development, for example greater involvement of parents and which elements of the manual are more suited to virtual delivery.

Title: [Levetiracetam as an alternative to phenytoin for second-line emergency treatment of children with convulsive status epilepticus: the EcLiPSE RCT](#)

Abstract/Conclusion: This trial found that levetiracetam was not superior to phenytoin in the time taken to terminate convulsive status epilepticus, and concluded that it may be an alternative to phenytoin.

Title: [Prevalence of Clinically Significant Drug-Drug Interactions Across US Children's Hospitals.](#)

Abstract/Conclusion: Patients hospitalized at US children's hospitals are frequently exposed to medications with clinically significant DDIs. Exposure risk varied substantially across hospitals. Further study is needed to determine the rate of adverse events due to DDI exposures and factors amenable for interventions promoting safer medication use.

Title: [SARS-CoV-2 Clinical Syndromes and Predictors of Disease Severity in Hospitalized Children and Youth](#)

Abstract/Conclusion: We identified variables at the time of hospitalization that may help predict the development of severe SARS-CoV-2 disease manifestations in children and youth. These variables may have implications for future prognostic tools that inform hospital admission and clinical management.

Title: [Validating clinical practice guidelines for the management of children with non-blanching rashes in the UK \(PiC\): a prospective, multicentre cohort study](#)

Abstract/Conclusion: Invasive meningococcal disease is a rare cause of non-blanching rashes in children presenting to the emergency department in the UK. Current NICE guidelines perform poorly when compared with tailored clinical practice guidelines. These findings suggest that UK national guidance could be improved by shifting towards a tailored approach.

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

Topic: [Depression in children](#)

Topic: [DiGeorge syndrome](#)

DynaMed Plus

Athens is required for off-site access to DynamedPlus

No updates.

Paediatrics in the News

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

Hundreds of young people with eating disorders to benefit from 'gold standard' NHS treatment

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](#)

Want to see our [latest additions to book stock](#)? You can also request new books for the library, just email Jane.Ankerstjerne@porthosp.nhs.uk with the text you want and purpose.