

Paediatrics Evidence Update May 2020

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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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DynaMed Plus[®]

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Contents (click title to view)

NICE Guidance	Other Guidance
Cochrane Systematic Reviews	Systematic reviews from other sources
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Electronic Journals	

NICE
National Institute for
Health and Care Excellence

Most recent guidance published:

[COVID-19 rapid guideline: children and young people who are immunocompromised \[NG174\]](#)

Other Guidance/Reports

[Early identification and referral of liver disease in infants](#), Children's Liver Disease Foundation

[Paediatric multisystem inflammatory syndrome temporally associated with COVID-19](#), Royal College of Paediatrics and Child Health



Systematic Reviews and Research Protocols

[Alarm interventions for nocturnal enuresis in children](#)

[Interventions for increasing fruit and vegetable consumption in children aged five years and under](#)

Systematic reviews from other sources

[Characterisation of COVID-19 Pandemic in Paediatric Age Group: A Systematic Review and Meta-Analysis.](#)

Clinical characteristics and diagnostic challenges of pediatric COVID-19: A systematic review and meta-analysis.

Effects of reflexology on child health: A systematic review.

Social ecological interventions to increase physical activity in children and young people living with and beyond cancer: a systematic review.

Systematic Review of Disparities in Care and Outcomes in Pediatric Appendectomy.

A Systematic Review of Medication Adherence Interventions in Pediatric Sickle Cell Disease.



This month's clinical questions are...

[Find a new clinical question here <http://cochraneclinicalanswers.com/doi/10.1002/cca.1783/full>]

What are the effects of fortifying rice with iron for children and adolescents with micronutrient malnutrition?

What is the accuracy of molecular assays for the diagnosis of sepsis in neonates?

What is the accuracy of pulse oximetry for detection of critical congenital heart defects (CHDs) in asymptomatic newborns?

Primary Research

Title: [Acute heart failure in multisystem inflammatory syndrome in children \(MIS-C\) in the context of global SARS-CoV-2 pandemic](#)

Abstract/Conclusion: Children may experience an acute cardiac decompensation due to severe inflammatory state following SARS-CoV-2 infection (multisystem inflammatory syndrome in children - MIS-C). Treatment with immune globulin appears to be associated with recovery of left ventricular systolic function.

Title: [Associations Between Maternal Antenatal Corticosteroid Treatment and Mental and Behavioral Disorders in Children](#)

Abstract/Conclusion: In this population-based retrospective cohort study that included 670 097 children, exposure to maternal antenatal corticosteroid treatment, compared with nonexposure, was significantly associated with mental and behavioral disorders in children (hazard ratio, 1.33).

Title: [Efficacy and Safety of Insulin Glargine 300 Units/mL \(Gla-300\) Versus Insulin Glargine 100 Units/mL \(Gla-100\) in Children and Adolescents \(6–17 years\) With Type 1 Diabetes: Results of the EDITION JUNIOR Randomized Controlled Trial](#)

Abstract/Conclusion: Gla-300 provided similar glycemic control and safety profiles to Gla-100 in children and adolescents with type 1 diabetes, indicating that Gla-300 is a suitable therapeutic option in this population.

Title: [Emapalumab in Children with Primary Hemophagocytic Lymphohistiocytosis](#)

Abstract/Conclusion: Emapalumab was an efficacious targeted therapy for patients with primary hemophagocytic lymphohistiocytosis.

Title: [Evaluation of the efficacy and safety of deferiprone compared with deferasirox in paediatric patients with transfusion-dependent haemoglobinopathies \(DEEP-2\): a multicentre, randomised, open-label, non-inferiority, phase 3 trial](#)

Abstract/Conclusion: In paediatric patients with transfusion-dependent haemoglobinopathies, deferiprone was effective and safe in inducing control of iron overload during 12 months of treatment. Considering the need for availability of more chelation treatments in paediatric populations, deferiprone offers a valuable treatment option for this age group.

Title: [Factors Associated With Chemotherapy-Induced Vomiting Control in Pediatric Patients Receiving Moderately or Highly Emetogenic Chemotherapy: A Pooled Analysis.](#)

Abstract/Conclusion: Younger age, shorter acute-phase duration, and antiemetic regimen were associated with acute-phase complete CIV control in pediatric patients receiving HEC or MEC. Acute-phase complete CIV control and antiemetic regimen were associated with delayed-phase complete CIV control.

Title: [Hyperinflammatory shock in children during COVID-19 pandemic](#)

Abstract/Conclusion: The intention of this Correspondence is to bring this subset of children to the attention of the wider paediatric community and to optimise early recognition and management. As this Correspondence goes to press, 1 week after the initial submission, the Evelina London Children's Hospital paediatric intensive care unit has managed more than 20 children with similar clinical presentation, the first ten of whom tested positive for antibody.

Title: [Impact of antimicrobial stewardship fee on prescribing for Japanese pediatric patients with upper respiratory infections.](#)

Abstract/Conclusion: The AS fee system, which compensates physicians for limiting antibiotic prescriptions, helped to reduce unnecessary antibiotic prescription and is thus a potentially effective measure against antimicrobial resistance.

Title: [Impact of expanding a paediatric OPAT programme with an antimicrobial stewardship intervention.](#)

Abstract/Conclusion: During a period of substantial expansion, we maintained clinical outcomes. A modest AMS intervention reduced some but not all aspects of inappropriate antibiotic prescribing.

Title: [Medication Order Errors at Hospital Admission Among Children With Medical Complexity.](#)

Abstract/Conclusion: Results from this study suggest that MOEs are common for CMC at hospital admission. Children receiving baclofen are at significant risk of experiencing MOEs, even when orders for baclofen are correct. Several limitations of this study suggest possible undercounting of MOEs during the study period. Further investigation of medication reconciliation processes for CMC receiving multiple chronic, home medications is needed to develop effective strategies for reducing MOEs in this vulnerable population.

Title: [Sit-stand desks to reduce sedentary behaviour in 9- to 10-year-olds: the Stand Out in Class pilot cluster RCT](#)

Abstract/Conclusion: The purpose of this study was to undertake a pilot cluster RCT to test the feasibility of conducting and evaluating a school-based sit-stand desk intervention to reduce children's sedentary behaviour. As a consequence, the implications of this study do not, at this stage, relate to practice, but to the feasibility and design of a follow-on full-scale cluster RCT. Study findings are discussed below in relation to the research objectives. When appropriate, the findings are compared with other studies and the lessons learnt from this study inform suggestions for a future trial.

Title: [Trends in Outpatient Procedural Sedation: 2007-2018.](#)

Abstract/Conclusion: We report an increase in pediatric hospitalists providing sedation and a significant decrease in the use of chloral hydrate and pentobarbital by providers. Further studies are required to see if sedation services decrease costs and optimize resource use.

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Topic: [Acute otitis media](#)

Topic: [Group B streptococcal infection](#)

Topic: [Infectious mononucleosis](#)

Topic: [Reye's syndrome](#)

DynaMed Plus

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No updates.

Paediatrics in the News

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

[NHS urges public to get essential vaccines despite coronavirus outbreak](#)

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

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[Archives of Disease in Childhood](#)

[Paediatrics and Child Health](#)

[BMC Pediatrics](#)

[Nursing Children and Young People](#)

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