

Paediatrics Evidence Update July 2021

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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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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	Paediatric health in the News
Online Resources	Electronic Journals
UpToDate	



Most recent guidance published:

No updates.

Other Guidance/Reports

[TB Testing in Children on Biologics](#). [PIER Network Guidelines](#).



Cochrane
Library

Systematic Reviews and Research Protocols

[Bisphosphonate use in children with cerebral palsy](#)

[Intermittent preventive treatment for malaria in infants](#)

[Opioid treatment for opioid withdrawal in newborn infants](#)

Systematic reviews from other sources

[Adverse childhood experiences and risk of cancer during adulthood: A systematic review and meta-analysis.](#)

[Application of ultrasound-guided radial artery cannulation in paediatric patients: A systematic review and meta-analysis.](#)

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Breastfeeding and risk of overweight in childhood and beyond: a systematic review with emphasis on sibling-pair and intervention studies.

Childhood vaccination and allergy: A systematic review and meta-analysis.

Combination fixed-dose beta agonist and steroid inhaler as required for adults or children with mild asthma: a Cochrane systematic review.

Disordered eating, body image concerns, and weight control behaviors in primary school aged children: A systematic review and meta-analysis of universal-selective prevention interventions.

Executive function in HIV-affected children and adolescents: a systematic review and meta-analyses.

Global hospital admissions and in-hospital mortality associated with all-cause and virus-specific acute lower respiratory infections in children and adolescents aged 5-19 years between 1995 and 2019: a systematic review and modelling study.

Hemispherotomy for pediatric epilepsy: a systematic review and critical analysis.

The impact of service dogs on children, youth and their families: A systematic review.

Incidence and prevalence of pressure injuries in children patients: A systematic review and meta-analysis.

Interventions to Support Adolescents With Cancer in Decision-Making: A Systematic Review and Meta-Analysis.

Low vitamin D levels and prognosis in a COVID-19 paediatric population: a systematic review.

Management of asthma exacerbations in the paediatric population: a systematic review.

Neurological Complications of SARS-CoV-2 Infection in Children: A Systematic Review and Meta-Analysis.

Operational definitions of paediatric asthma used in epidemiological studies: A systematic review.

Outpatient urine collection methods for paediatric urinary tract infections: Systematic review of diagnostic accuracy studies.

Post-operative colonic manometry in children with Hirschsprung disease: A systematic review.

The potential impact of the COVID-19 pandemic on child growth and development: a systematic review.

Prevalence of binge-eating disorder among children and adolescents: a systematic review and meta-analysis.

Prevalence of electronic nicotine delivery systems and electronic non-nicotine delivery systems in children and adolescents: a systematic review and meta-analysis.

Prevalence of rotavirus among older children and adults with diarrhea: A systematic review and meta-analysis.

Risk Factors for Multiple Tympanostomy Tube Placements in Children: Systematic Review and Meta-Analysis.

Risk of infection and transmission of SARS-CoV-2 among children and adolescents in households, communities and educational settings: A systematic review and meta-analysis.

The Surgical Management of Missed Paediatric Monteggia Fractures: A Systematic Review and Meta-Analysis.

Systematic review and meta-analysis: the incidence and prevalence of paediatric coeliac disease across Europe.

Systematic review of Mohs micrographic surgery in children: Identifying challenges and practical considerations for successful application.

Telemedicine in Malignant and Nonmalignant Hematology: Systematic Review of Pediatric and Adult Studies.

Treatment and Survival of Malignant Extracranial Germ Cell Tumours in the Paediatric Population: A Systematic Review and Meta-Analysis.



This month's clinical questions are...

For adults and children with asthma, what are the effects of pharmacological interventions for gastroesophageal reflux disease (GERD)?

What are the effects of prophylactic benzodiazepines, barbiturates, and anticonvulsants for management of febrile seizures in children?

Primary Research

Title: [Child obesity: patterns and trends](#)

Abstract/Conclusion: Slide sets presenting the latest data on child obesity in England, the 9 English regions, and upper tier local authorities.

Title: [Effect of Systemic Hydrocortisone Initiated 7 to 14 Days After Birth in Ventilated Preterm Infants on Mortality and Neurodevelopment at 2 Years' Corrected Age: Follow-up of a Randomized Clinical Trial](#)

Abstract/Conclusion: A randomized, double-blind, placebo-controlled trial investigating the efficacy and safety of systemic hydrocortisone treatment initiated 7 to 14 days after birth in ventilator-dependent, very preterm infants found no significant difference in the composite primary outcome of death or bronchopulmonary dysplasia at 36 weeks' postmenstrual age.

Title: [Laboratory confirmed cases of invasive meningococcal infection in England: January to March 2021](#)

Abstract/Conclusion: In England, the national Public Health England (PHE) Meningococcal Reference Unit (MRU) confirmed 18 cases of invasive meningococcal disease (IMD) between January and March 2021. IMD cases were 89% lower during these 3 months compared to 169 cases in the equivalent period in 2020.

Title: [Navigating the Regulatory Landscape to Develop Pediatric Oncology Drugs: Expert Opinion Recommendations.](#)

Abstract/Conclusion: We make several recommendations for each stage of the development process, beginning with what is needed even before human studies begin. Finally, we highlight some issues that sponsors need to think about during drug development, from the preclinical stage (testing drugs in cells and animals) through to clinical testing in adults and pediatric patients with cancer.

Title: [Risdiplam-Treated Infants with Type 1 Spinal Muscular Atrophy versus Historical Controls](#)

Abstract/Conclusion: In this study involving infants with type 1 SMA, risdiplam resulted in higher percentages of infants who met motor milestones and who showed improvements in motor function than the percentages observed in historical cohorts. Longer and larger trials are required to determine the long-term safety and efficacy of risdiplam in infants with type 1 SMA.

Title: [Impact of COVID-19 on childhood vaccination counts up to week 19, 2021](#)

Abstract/Conclusion: This report presents vaccination counts data up to week 19 of 2021.

BMJ Best Practice

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

Topic: [Assessment of acute headache in children](#)

Topic: [Premature newborn care](#)

Topic: [Rubella](#)

Topic: [Type 1 diabetes](#)

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)



Most children with life-limiting conditions still die in hospital, not home or hospice



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Eligibility for CFTR modulator therapy among race/ethnic groups in cystic fibrosis

Fetal endoscopic tracheal occlusion for severe isolated left congenital diaphragmatic hernia

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