

Paediatrics Evidence Update January 2021

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.

BMJ Best Practice

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

Or [via OpenAthens](#)

DynaMed Plus

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

Or [via OpenAthens](#)

UpToDate

[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	UpToDate

NICE
National Institute for
Health and Care Excellence

Most recent guidance published:

No updates.

Other Guidance/Reports

[COVID-19 - guidance for management of children admitted to hospital - last updated 19 January 2021](#) - Royal College of Paediatrics and Child Health – RCPCH

[Ethics framework for use in acute paediatric settings during COVID-19 pandemic - last updated 8 January 2021](#) - Royal College of Paediatrics and Child Health – RCPCH



Systematic Reviews and Research Protocols

[Antibiotic therapy versus no antibiotic therapy for children aged 2 to 59 months with WHO-defined non-severe pneumonia and wheeze](#)

[Band ligation versus sham or no intervention for primary prophylaxis of oesophageal variceal bleeding in children and adolescents with chronic liver disease or portal vein thrombosis](#)

[Beta-blockers versus placebo or no intervention for primary prophylaxis of oesophageal variceal bleeding in children with chronic liver disease or portal vein thrombosis](#)

[Ethosuximide, sodium valproate or lamotrigine for absence seizures in children and adolescents](#)

[Hand hygiene for the prevention of infections in neonates](#)

[Indomethacin for symptomatic patent ductus arteriosus in preterm infants](#)

[Back to top](#)

Systematic reviews from other sources

Acquired subglottic cysts in children: A rare and challenging clinical entity. A systematic review.

Acute isolated sphenoid sinusitis in children: A case series and systematic review of the literature.

Adventure therapy for child, adolescent, and young adult cancer patients: a systematic review.

Commonly Reported Adverse Events Associated With Pediatric Immunotherapy:
A Systematic Review From the Children's Oncology Group.

COVID-19 and multisystem inflammatory syndrome in children: A systematic review and meta-analysis.

Diagnosis and Acute Management of E-Cigarette or Vaping Product Use-Associated Lung Injury in the Pediatric Population: A Systematic Review.

Early life ionizing radiation exposure and cancer risks: systematic review and meta-analysis.

Efficacy and safety of EBUS-TBNA and EUS-B-FNA in children: A systematic review and meta-analysis.

Epidemiology of COVID-19 infection in young children under five years: A systematic review and meta-analysis.

Language in childhood epilepsy: A systematic review and meta-analysis.

Latent Class Analysis of Lifestyle Risk Factors and Association with Overweight and/or Obesity in Children and Adolescents: Systematic Review.

Pediatric lung imaging features of COVID-19: A systematic review and meta-analysis.

Predicting Outcomes in Pediatric Crohn's Disease for Management
Optimization: Systematic Review and Consensus Statements From the Pediatric Inflammatory
Bowel Disease-Ahead Program.

Preferential Antiseizure Medications in Pediatric Patients with Convulsive Status Epilepticus:
A Systematic Review and Network Meta-Analysis.

Surveillance endoscopy in pediatric tracheostomy: A systematic review.

A Systematic Review of Antibiotic Prophylaxis for Delayed Sternal Closure in Children.

Systematic Review of Outcomes After Cochlear Implantation in Children With X-Linked Deafness-2.

Systematic Review of the Patterns of Orofacial Injuries in Physically Abused Children and Adolescents.

A systematic review of ultrasound biomicroscopy use in pediatric ophthalmology.

Television food advertisements and childhood obesity: A systematic review.

Treatments of sleep bruxism in children: A systematic review and meta-analysis.

Whole-body magnetic resonance imaging in children - how and why? A systematic review.

This month's clinical questions are...

How does nutrition education compare with conventional management for improving nutritional outcomes in term-born infants?

What are the effects of rotavirus vaccines for preventing diarrhea in children?

What is the accuracy of Xpert MTB/RIF for the diagnosis of pulmonary tuberculosis (TB) in children, using culture as the reference standard?

Primary Research

Title: [Antibiotic Stewardship in Pediatrics.](#)

Abstract/Conclusion: Antibiotic overuse contributes to antibiotic resistance, which is a threat to public health. Antibiotic stewardship is a practice dedicated to prescribing antibiotics only when necessary and, when antibiotics are considered necessary, promoting use of the appropriate agent(s), dose, duration, and route of therapy to optimize clinical outcomes while minimizing the unintended consequences of antibiotic use.

Title: [Excellent Outcomes With Reduced Frequency of Vincristine and Dexamethasone Pulses in Standard-Risk B-Lymphoblastic Leukemia: Results From Children's Oncology Group AALL0932](#)

Abstract/Conclusion: The NCI-SR AR B-ALL who received VCR/DEX12 had outstanding outcomes despite receiving one third of the vincristine/dexamethasone pulses previously used as standard of care on Children's Oncology Group (COG) trials. The higher starting dose of MTX of 40 mg/m² once weekly did not improve outcomes when compared with 20 mg/m² once weekly. The decreased frequency of vincristine/dexamethasone pulses has been incorporated into frontline COG B-ALL trials to decrease the burden of therapy for patients and their families.

Title: [Homemade valved holding chambers for children with airway hyperresponsiveness: a randomized crossover trial](#)

Abstract/Conclusion: Our homemade VHC is effective for an MDI bronchodilator delivery. Since it is very cheap and easy to make, it may be used as a disposable device to minimize airborne transmission especially when commercial VHC is not available.

Title: [Implementation of a Standardized Approach To Improve the Pediatric Discharge Medication Process.](#)

Abstract/Conclusion: A systematic approach to standardizing the discharge medication process led to improved caregiver medication management and understanding after pediatric inpatient discharge. These changes could be adapted by other hospitals to enhance the quality of this care transition.

Title: [Long-term safety and efficacy of lumacaftor–ivacaftor therapy in children aged 6–11 years with cystic fibrosis homozygous for the F508del-CFTR mutation: a phase 3, open-label, extension study](#)

Abstract/Conclusion: Lumacaftor–ivacaftor therapy in children homozygous for F508del-CFTR who initiated treatment at age 6–11 years was generally safe and well tolerated, and efficacy was sustained for up to 120 weeks. These data support the long-term use of lumacaftor–ivacaftor to treat children aged 6 years and older who are homozygous for the F508del-CFTR mutation.

Title: [Optimising paediatric medicines development in the EU through pragmatic approaches.](#)

Abstract/Conclusion: The European Union's Paediatric Regulation has strengthened the development of medicines for children in Europe through its system of obligations and rewards. However, opportunities remain to further optimise paediatric medicines development, notably in relation to the implementation of the regulatory framework.

Title: [Why are certain age bands used for children in paediatric studies of medicines?](#)

Abstract/Conclusion: Rational prescribing of medicines requires evidence from clinical trials on efficacy, safety and the dose to be prescribed, based on clinical trials. Regulatory authorities assess these data and information is included in the approved summary of product characteristics. Regulatory guidelines on clinical investigation of medicinal products in the paediatric population generally propose that studies are done in defined age groups but advise that any classification of the paediatric population into age categories is to some extent arbitrary or that the age groups are intended only as a guide.



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

Topic: [Assessment of abdominal pain in children](#)

Topic: [Faltering growth](#)

Topic: [Hand-foot-and-mouth disease](#)

Topic: [Premature newborn care](#)

DynaMed Plus

Athens is required for off-site access to DynamedPlus

No updates.

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

[Back to top](#)

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](#)



Athens is required for off-site access to UpToDate

No updates.

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.