

Paediatrics Evidence Update February 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



Most recent guidance published:

No updates.

Other Guidance/Reports

No updates.



Systematic Reviews and Research Protocols

[Antidepressants for functional abdominal pain disorders in children and adolescents](#)

[Fluid restriction in the management of transient tachypnea of the newborn](#)

[High versus low medium chain triglyceride content of formula for promoting short-term growth of preterm infants](#)

[Integrated community case management of childhood illness in low- and middle-income countries](#)

[Salbutamol for transient tachypnea of the newborn](#)

[Skin care interventions in infants for preventing eczema and food allergy](#)

[Surgical interventions for infantile nystagmus syndrome](#)

Systematic reviews from other sources

Association between childhood asthma and attention deficit hyperactivity or autism spectrum disorders: A systematic review with meta-analysis.

Clinical manifestations and outcomes of COVID-19 in the paediatric population: a systematic review.

Clinical Pharmacokinetics of Enalapril and Enalaprilat in Pediatric Patients-A Systematic Review.

Communication and swallowing outcomes of children diagnosed with childhood brain tumor or leukemia: A systematic review.

Complications in pediatric laparoscopic cholecystectomy: systematic review.

CYP2D6 and Antipsychotic Treatment Outcomes in Children and Youth: A Systematic Review.

Effectiveness of healthy eating interventions among children: A quantitative systematic review.

The efficacy and safety of montelukast in children with obstructive sleep apnea: a systematic review and meta-analysis.

End-of-Life Childhood Cancer Research: A Systematic Review.

Executive function following pediatric stroke. A systematic review.

Family presence during resuscitation in paediatric and neonatal cardiac arrest: A systematic review.

An optical window into brain function in children and adolescents: A systematic review of functional near-infrared spectroscopy studies.

Peritoneal carcinomatosis from colorectal cancer in the pediatric population: Cytoreductive surgery and HIPEC. A systematic review.

Paediatric nursing clinical competences in primary healthcare: A systematic review.

Prospectively assessed neurodevelopmental outcomes in studies of anaesthetic neurotoxicity in children: a systematic review and meta-analysis.

Prevalence, clinical characteristics, and outcomes of pediatric COVID-19: A systematic review and meta-analysis.

Quality of life in children and adolescents with cerebral palsy: a systematic review with meta-analysis.

The role of music therapy in the treatment of children with cancer: A systematic review of literature.

Transition from pediatric to adult follow-up care in childhood cancer survivors-a systematic review.

Severe COVID-19 Infection and Pediatric Comorbidities: A Systematic Review and Meta-Analysis.

Short duration of sleep and incidence of overweight or obesity in Chinese children and adolescents: A systematic review and meta-analysis of prospective studies.

Surgical interventions for pediatric unilateral vocal fold paralysis: A systematic review and meta-analysis.

Susceptibility to SARS-CoV-2 Infection Among Children and Adolescents Compared With Adults: A Systematic Review and Meta-analysis.

A systematic review and meta-analysis of children with coronavirus disease 2019 (COVID-19).

Systematic Review and Meta-analysis of the Change in Pharyngeal Bacterial Cultures After Pediatric Tonsillectomy.

Systematic review and meta-analyses of the relationship between short sleep and incidence of obesity and effectiveness of sleep interventions on weight gain in preschool children.

Systematic review of randomised controlled trials to improve dietary intake for the prevention of obesity in infants aged 0-24 months.

The Use of Activity Trackers in Interventions for Childhood Cancer Patients and Survivors: A Systematic Review.

The use of electronic tongue and sensory panel on taste evaluation of pediatric medicines: a systematic review.

Use of probiotics in the treatment of functional abdominal pain in children-systematic review and meta-analysis.



This month's clinical questions are...

For children with convergence insufficiency, how do non-surgical interventions compare?

For infants, what are the effects of skin care to prevent or reverse an impaired skin barrier on the development of eczema and food allergies?

How do physical activity interventions with or without healthy lifestyle education tools compare with a standard physical education curriculum for promoting school achievement and cognition among children and adolescents classified as overweight and obese?

What are the effects of interventions to prevent cerebral palsy in preterm or low birth weight infants?

What are the effects of interventions to prevent cerebral palsy in neonates with perinatal asphyxia or evidence of neonatal encephalopathy?

What is the accuracy of procalcitonin (PCT), C-reactive protein (CRP), and erythrocyte sedimentation rate (ESR) for the diagnosis of acute pyelonephritis in children?

Primary Research

Title: Association of Intravenous Immunoglobulins Plus Methylprednisolone vs Immunoglobulins Alone With Course of Fever in Multisystem Inflammatory Syndrome in Children

Abstract/Conclusion: Among children with MIS-C, treatment with IVIG and methylprednisolone vs IVIG alone was associated with a more favorable fever course. Study interpretation is limited by the observational design.

Title: [Characteristics of children receiving universal health visitor reviews](#)

Abstract/Conclusion: Analysis of the characteristics of children who received universal health visitor reviews in 2018 to 2019 and 2019 to 2020. Characteristics include: ethnicity, deprivation, looked-after children, disability, vulnerability, whether children have moved within and between areas and where children have a preferred language other than English

Title: [Impact of a clinical decision rule on antibiotic prescription for children with suspected lower respiratory tract infections presenting to European emergency departments: a simulation study based on routine data.](#)

Abstract/Conclusion: Implementation of the Feverkidstool could reduce antibiotic prescriptions in children with suspected LRTIs in European EDs.

Title: [The impact of the coronavirus pandemic on child welfare: d/Deaf and disabled children and young people \(PDF\)](#)

Abstract/Conclusion: This briefing uses insight from Childline counselling sessions and NSPCC helpline contacts to highlight the impact of the coronavirus pandemic on d/Deaf, disabled and autistic children and young people.

Title: [Impact of Risk-Adapted Therapy for Pediatric Hodgkin Lymphoma on Risk of Long-Term Morbidity: A Report From the Childhood Cancer Survivor Study](#)

Abstract/Conclusion: To determine the incidence of serious chronic health conditions among survivors of pediatric Hodgkin lymphoma (HL), compare by era of therapy and by selected cancer therapies, and provide estimates of risks associated with contemporary therapy.

Title: [Improved quality of reporting safety data of medication in paediatric randomised controlled trials.](#)

Abstract/Conclusion: Reporting safety data in paediatric RCTs has improved over the past 10 years. However, there is still room for improvement and for further improvement. Authors and editors should give more attention to methods for collecting, reporting and presenting safety data of RCTs in studies and manuscripts.

Title: [Opportunities for Stewardship in the Transition From Intravenous to Enteral Antibiotics in Hospitalized Pediatric Patients.](#)

Abstract/Conclusion: Pediatric patients hospitalized with bacterial infections often receive intravenous (IV) antibiotics. Early transition to enteral antibiotics can reduce hospital duration, cost, and complications. We aimed to identify opportunities to transition from IV to enteral antibiotics, describe variation of transition among hospitals, and evaluate feasibility of novel stewardship metrics.

Title: [Paediatric severe asthma biologics service: from hospital to home.](#)

Abstract/Conclusion: Children with severe asthma may be treated with biologic agents normally requiring 2-4 weekly injections in hospital. In March 2020, due to COVID-19, we needed to minimise hospital visits. We assessed whether biologics could be given safely at home. The multidisciplinary team identified children to be considered for home administration.

Title: [Reducing corticosteroid phobia in pharmacy staff and parents of children with atopic dermatitis.](#)

Abstract/Conclusion: Our results show the prevalence of corticophobia among parents. Education of pharmacy staff and targeted patient counseling seems to be effective in reducing corticophobia.



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

Topic: [Assessment of gait disorders in children](#)

Topic: [Asthma in children](#)

Topic: [Attention deficit hyperactivity disorder in children](#)

Topic: [Nappy rash](#)

Topic: [Type 2 diabetes in children](#)

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

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)



**National Institute for
Health Research**

[A combination of tests is needed to diagnose a dangerous type of meningitis in children](#)

[Lonely young people have an increased risk of mental health problems years later: research suggests lockdown could have a long term effect](#)



Athens is required for off-site access to UpToDate

[Hydroxyurea and fertility in males with sickle cell disease](#)

[Vaping and readiness to quit among adolescents](#)

[Weight loss surgery for younger versus older adolescents](#)

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.