

## Paediatrics Evidence Update October 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](mailto:Clinical.Librarian@porthosp.nhs.uk) or call extension 6042.

Alternatively you can contact one of the team directly:

[Aaron.Razack@porthosp.nhs.uk](mailto:Aaron.Razack@porthosp.nhs.uk)

[Rebecca.Howes@portshosp.nhs.uk](mailto: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 access on site](#)

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

DynaMed Plus<sup>®</sup>

[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
<a href="#">Cochrane Systematic Reviews</a>	<a href="#">Systematic reviews from other sources</a>
<a href="#">Cochrane clinical answers</a>	<a href="#">Primary Research</a>
<a href="#">BMJ Best Practice</a>	<a href="#">DynamedPlus</a>
<a href="#">Paediatric health in the News</a>	<a href="#">Online Resources</a>
<a href="#">Electronic Journals</a>	



## Most recent guidance published:

No updates.

---

## Other Guidance/Reports

No updates.

---



Systematic Reviews and Research Protocols

[Branched-chain amino acid supplementation for improving growth and development in term and preterm neonates](#)

[Continuous positive airway pressure \(CPAP\) for respiratory distress in preterm infants](#)

[Early versus delayed continuous positive airway pressure \(CPAP\) for respiratory distress in preterm infants](#)

[Household interventions for secondary prevention of domestic lead exposure in children](#)

[Interventions to reduce body temperature to 35 °C to 37 °C in adults and children with traumatic brain injury](#)

[Probiotics to prevent necrotising enterocolitis in very preterm or very low birth weight infants](#)

Prophylactic corticosteroids for paediatric heart surgery with cardiopulmonary bypass

Systemic interventions for severe atopic and vernal keratoconjunctivitis in children and young people up to the age of 16 years

Virtual reality distraction for acute pain in children

---

## Systematic reviews from other sources

Anorectal manometry in pediatric settings: A systematic review of 227 studies.

Application of ultrasound-guided radial artery cannulation in paediatric patients: A systematic review and meta-analysis.

Association between postnatal second-hand smoke exposure and ADHD in children: a systematic review and meta-analysis.

Benefits and damages of the use of touchscreen devices for the development and behavior of children under 5 years old-a systematic review.

Caring for Dying Infants: A Systematic Review of Healthcare Providers' Perspectives of Neonatal Palliative Care.

Comparison of Acetaminophen (Paracetamol) With Ibuprofen for Treatment of Fever or Pain in Children Younger Than 2 Years: A Systematic Review and Meta-analysis.

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

Comparative effectiveness of East Asian traditional medicine for treatment of idiopathic short stature in children: A protocol for systematic review and network meta-analysis.

Cost and cost-effectiveness analysis of treatment for child undernutrition in low- and middle-income countries: A systematic review.

Diet quality indices and their associations with health-related outcomes in children and adolescents: an updated systematic review.

Effect of adjunctive hormonal therapy on testicular descent and spermatogenic function among children with cryptorchidism: a systematic review and meta-analysis.

Gastrointestinal symptoms and fecal nucleic acid testing of children with 2019 coronavirus disease: a systematic review and meta-analysis.

Global Prevalence of Physical Activity, Sedentary Behaviour, and Sleep of Immigrant Children: a Systematic Review.

Immersive Virtual Reality as Analgesia during Dressing Changes of Hospitalized Children and Adolescents with Burns: A Systematic Review with Meta-Analysis.

Impact of adenotonsillectomy in children with severe obstructive sleep apnea: A systematic review.

The Impact of Bilingualism on Executive Functions in Children and Adolescents: A Systematic Review Based on the PRISMA Method.

The long-term effect of prenatal progesterone treatment on child development, behaviour and health: a systematic review.

Long term methylphenidate exposure and growth in children and adolescents with ADHD. A systematic review and meta-analysis.

Lung function in obese children and adolescents without respiratory disease: a systematic review.

Metabolic syndrome among children and adolescents in low and middle income countries: a systematic review and meta-analysis.

Pain in long-term survivors of childhood cancer: A systematic review of the current state of knowledge and a call to action from the Children's Oncology Group.

Pediatric laryngeal sarcoma: Systematic review and pooled analysis.

Pediatric relapsed acute myeloid leukemia: a systematic review.

Pediatric ulnar artery pseudoaneurysm of the wrist after glass laceration: A case report and systematic review of the literature.

Prevalence and correlates of mental and neurodevelopmental symptoms and disorders among deaf children and adolescents: a systematic review protocol.

The prevalence of swallowing dysfunction in children with laryngomalacia: a systematic review.

Systematic Review: The Measurement Properties of the Children's Depression Rating Scale-Revised in Adolescents With Major Depressive Disorder.

Use of antipyretics for preventing febrile seizure recurrence in children: a systematic review and meta-analysis.



This month's clinical questions are...

For children younger than one year of age, what are the effects of pneumococcal conjugate vaccines?

How does low molecular weight heparin (LWMH) compare with low-dose unfractionated heparin (UFH) for preventing central venous catheter-related thrombosis in children?

How does tonsillectomy compare with tonsillotomy for children and adolescents with obstructive sleep-disordered breathing?

---

## Primary Research

**Title:** Can children swallow tablets? Outcome data from a feasibility study to assess the acceptability of different-sized placebo tablets in children (creating acceptable tablets (CAT))

**Abstract/Conclusion:** Study of 55 children reported that nearly all children aged 9–12 yrs successfully swallowed tablets of 6?mm, 8?mm and 10?mm as did majority of children aged 4–8 yrs (67%, 91% and 95%, respectively) demonstrating that tablets are an acceptable formulation for children.

[Back to top](#)

**Title:** [Children and young people mental health review: update on local actions \(PDF\)](#)

**Abstract/Conclusion:** This report is an update on our work looking at the quality of, and access to, mental health services for children and young people.

**Title:** [Children's Relative Age and ADHD Medication Use: A Finnish Population-Based Study.](#)

**Abstract/Conclusion:** Relative immaturity increases the likelihood of ADHD medication use in Finland. The association was more pronounced during the first school years. Increased awareness of this association is needed among clinicians and teachers.

**Title:** [Drug rash with eosinophilia and systemic symptoms \(DRESS\) syndrome in a paediatric patient taking zonisamide](#)

**Abstract/Conclusion:** This 11 year old male patient with new onset DRESS syndrome after recent introduction of zonisamide, was successfully treated with pulsed intravenous methylprednisolone and intravenous immunoglobulin; and discharged home well after a 3-week admission.

**Title:** [The effect of an online exercise programme on bone health in paediatric cancer survivors \(iBoneFIT\): study protocol of a multi-centre randomized controlled trial](#)

**Abstract/Conclusion:** Whether a simple, feasible and short in duration exercise programme can improve bone health has not been examined in paediatric cancer survivors. This article describes the design, rationale and methods of a study intended to test the effect of a rigorous online exercise programme on bone health in paediatric cancer survivors. If successful, the iBoneFIT study will contribute to decrease chronic health conditions in this population and will have a positive impact in the society.

**Title:** [Incidence of and Factors Associated With Prolonged and Persistent Postoperative Opioid Use in Children 0-18 Years of Age.](#)

**Abstract/Conclusion:** Some patient characteristics and surgeries are positively and negatively associated with prolonged opioid use in opioid-naïve children of all ages, but persistent opioid use is rare. Specific pediatric subpopulations (eg, older patients with a history of mood/personality disorder or chronic pain) may be at markedly higher risk.

**Title:** [Observational study of drug-related problems and clinical pharmacists' interventions in a French paediatric hospital](#)

**Abstract/Conclusion:** Study illustrates frequency of drug-related problems in paediatric inpatients [supratherapeutic dosage (33.8%), improper administration (22.9%) and subtherapeutic dosage (16.8%)] and ability of pharmacists to identify them (1742 pharmaceutical interventions).

**Title:** [Paediatric population pharmacokinetic modelling to assess hydrocortisone replacement dosing regimens in young children](#)

**Abstract/Conclusion:** Current paediatric hydrocortisone treatment regimens based on either three- or four-times daily administration replicate cortisol exposure based on AUC<sub>0-24h</sub>, but the majority of cortisol levels are above or below physiological cortisol levels with low levels very common before the next dose.

**Title:** [Unintentional exposure to pregabalin in ≤6-year-old children: a nationwide French Poison Control Center study.](#)

**Abstract/Conclusion:** In France, pregabalin is widely prescribed in adults but still not approved for children. We aimed to investigate the incidence of pregabalin exposure in ≤6-year-old children, to describe the characteristics and outcome of ingestions involving pregabalin alone, and to estimate a clinically relevant toxic dose in this population.

# BMJ Best Practice

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

**Topic:** [Biliary atresia](#)

**Topic:** [Hereditary spherocytosis](#)

**Topic:** [Impetigo](#)

**Topic:** [Infectious mononucleosis](#)

**Topic:** [Intussusception](#)

**Topic:** [Muscular dystrophies](#)

**Topic:** [Respiratory syncytial virus infection](#)

**Topic:** [Retinoblastoma](#)

---

## DynaMed Plus

Athens is required for off-site access to DynamedPlus

No updates.

---

### Paediatrics in the News

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

NHS encourages children and young people to seek help as new data shows rise in mental health problems

---

### 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](mailto:Jane.Ankerstjerne@porthosp.nhs.uk) with the text you want and purpose.