

Paediatrics Evidence Update April 2020

Produced by the Clinical Librarian Service

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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.

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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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KnowledgeShare

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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	DynamedPlus
Paediatric health in the News	Online Resources
Electronic Journals	



Most recent guidance published:

No updates.

Other Guidance/Reports

[PICS Guidance on managing drug shortages in paediatric critical care \(covid-19\)](#) - Paediatric Intensive Care Society

[PICU Nursing ratios guidance \(Covid-19\)](#) - Paediatric Intensive Care Society

[Paediatric Airway Management Guidance \(Covid-19\)](#) - Paediatric Intensive Care Society

[PICS/PICANet modelling for minimum number of UK PICU beds required during the Covid-19 pandemic](#) - Paediatric Intensive Care Society



Systematic Reviews and Research Protocols

[Agricultural and nutritional education interventions for reducing aflatoxin exposure to improve infant and child growth in low- and middle-income countries](#)

[Antiepileptic drugs as prophylaxis for postcraniotomy seizures](#)

[Clonazepam add-on therapy for drug-resistant epilepsy](#)

[Clonidine for pain in non-ventilated infants](#)

[Early versus late parenteral nutrition for critically ill term and late preterm infants](#)

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EEG for children with complex febrile seizures

Non-corticosteroid immunosuppressive medications for steroid-sensitive nephrotic syndrome in children

Normal saline (0.9% sodium chloride) versus heparin intermittent flushing for the prevention of occlusion in long-term central venous catheters in infants and children

Rinse-free hand wash for reducing absenteeism among preschool and school children

Spectacle correction versus no spectacles for prevention of strabismus in hyperopic children

Tonsillectomy versus tonsillotomy for obstructive sleep-disordered breathing in children

Treatments for priapism in boys and men with sickle cell disease

Vaccines for measles, mumps, rubella, and varicella in children

Vitamin D, calcium or a combination of vitamin D and calcium for the treatment of nutritional rickets in children

Systematic reviews from other sources

Beyond the growth delay in children with sleep-related breathing disorders: a systematic review.

Bisphosphonate Therapy for Treating Osteonecrosis in Pediatric Leukemia Patients: A Systematic Review.

Bowel ultrasound measurements in healthy children - systematic review and meta-analysis.

Children Born with Congenital Heart Defects and Growth Restriction at Birth: A Systematic Review and Meta-Analysis.

Clinicopathological analysis of oral Burkitt's lymphoma in pediatric patients: A systematic review.

Comparison between the health-related quality of life of children/adolescents with asthma and that of their caregivers: a systematic review and meta-analysis.

Delivering non-communicable disease interventions to women and children in conflict settings: a systematic review.

Efficacy and safety of statin use in children and adolescents with familial hypercholesterolaemia: a systematic review and meta-analysis of randomized-controlled trials.

Effectiveness of Serious Games to Increase Physical Activity in Children With a Chronic Disease: Systematic Review With Meta-Analysis.

Heart Rate Variability in Children and Adolescents with Cerebral Palsy-A Systematic Literature Review.

How is immunosuppressive status affecting children and adults in SARS-CoV-2 infection? A systematic review.

Interventions that prevent or reduce obesity in children from birth to five years of age: A systematic review.

Many naps, one nap, none: A systematic review and meta-analysis of napping patterns in children 0-12 years.

Melatonin use in hospitalized children for non-anesthetic indications: A systematic review.

Normal saline (0.9% sodium chloride) versus heparin intermittent flushing for the prevention of occlusion in long-term central venous catheters in infants and children.

Paediatricians provide higher quality care to children and adolescents in primary care: a systematic review.

Respiratory and Allergic Effects in Children Exposed to Pesticides-A Systematic Review.

Specialized Pediatric Palliative Care in Neonates with Life-Limiting Illness: A Systematic Review.

Vancomycin Dosing in Children With Overweight or Obesity: A Systematic Review and Meta-analysis.

Vitamin D Supplementation and Blood Pressure in Children and Adolescents: A Systematic Review and Meta-Analysis.

What is the threshold dose of upper limb training for children with cerebral palsy to improve function? A systematic review.



This month's clinical questions are...

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

Do different interventions help increase fruit and vegetable consumption in children six years of age and younger?

Does asthma education for school staff benefit children with asthma?

Does enteral lactoferrin supplementation prevent sepsis and necrotizing enterocolitis in preterm infants?

For overweight or obese preschool children (≤ 6 years of age), what are the long-term effects (≥ 6 months post intervention) of multicomponent interventions that include diet, physical activity, and behavioral components?

What are the perceptions and experiences of targeted digital communication via mobile devices for reproductive, maternal, child, and adolescent health?

Primary Research

Title: Cross-sectional study identifying high-alert substances in medication error reporting among Swedish pediatric inpatients

Abstract/Conclusion: Existing high-alert drug lists are relevant for paediatric inpatients. A higher awareness and usage of such lists among hospital staff prescribing, dispensing and administering drugs to children may have the potential to reduce medication errors.

Title: [Effectiveness and safety of mandatory antimicrobial indications and durations and a pharmacist-driven 48-hour time-out in a pediatric hospital](#)

Abstract/Conclusion: MAID and a 48-hour time-out significantly reduced DOT of select antibiotics. No patient harm occurred with the 2-step safety process.

Title: [Impact of Asparaginase Discontinuation on Outcome in Childhood Acute Lymphoblastic Leukemia: A Report From the Children's Oncology Group](#)

Abstract/Conclusion: Discontinuation of ASNase doses is associated with inferior DFS in higher-risk patients. Our results illustrate the severe consequences of *Erwinia* shortages.

Title: [Implementation of internet-delivered cognitive behaviour therapy for pediatric obsessive-compulsive disorder: Lessons from clinics in Sweden, United Kingdom and Australia](#)

Abstract/Conclusion: Overall, we observed a high degree of adherence to the BIP OCD intervention with at least 62–78% of treatment modules completed, and a majority of patients being classified as completers (56–100%).

Title: [Parent-related factors influencing antibiotic use in a paediatric population: A qualitative study in Spain](#)

Abstract/Conclusion: Our study points to poor communication between the healthcare system and the population. Identifying the factors underlying the problem enables more efficient, tailor-made interventions to be designed for the purpose of improving antibiotic use and resistance

Title: [Pharmacovigilance Reports Received from Children and Young People, and Development of Information to Aid Future Reporting from this Age Group](#)

Abstract/Conclusion: CYP's contribution to the YCS is limited, but increasing, and demonstrates distinct patterns of suspected medications and reactions. Age-appropriate information for CYP to aid reporting of suspected ADRs has been developed.

Title: [Therapy and Psychotropic Medication Use in Young Children With Autism Spectrum Disorder](#)

Abstract/Conclusion: Relatively few young children with ASD are receiving behavioral therapies or total therapy hours at the recommended intensity. There is regional variability in psychotropic medication use. Further research is needed to improve access to evidence-based treatments for young children with ASD.

Title: [Vaccination coverage of children with chronic diseases is inadequate especially for specifically recommended vaccines](#)

Abstract/Conclusion: This study showed inadequate vaccine coverage rates and significant delays among children with chronic diseases.

The logo for BMJ Best Practice, featuring the letters 'BMJ' in a bold, white, sans-serif font inside a blue square, followed by the words 'Best Practice' in a white, sans-serif font on a blue rectangular background.

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

Topic: [Fetal alcohol spectrum disorders](#)

Topic: [Mumps](#)

Topic: [Neonatal jaundice](#)

Topic: [Roseola](#)

DynaMed Plus

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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

[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](#)

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