

## Paediatrics Evidence Update July 2020

Produced by the Clinical Librarian Service

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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.



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KnowledgeShare

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NICE Guidance	Other Guidance
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## Most recent guidance published:

[COVID-19 rapid guideline: children and young people who are immunocompromised \[NG174\]](#)

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## Other Guidance/Reports

[Specialist neonatal respiratory care for babies born preterm \[QS193\]](#)

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Systematic Reviews and Research Protocols

[Beta-blockers for congestive heart failure in children](#)

[Early fortification of human milk versus late fortification to promote growth in preterm infants](#)

[Education of family members to support weaning to solids and nutrition in later infancy in term-born infants](#)

[Head midline position for preventing the occurrence or extension of germinal matrix-intraventricular haemorrhage in preterm infants](#)

[Psychological interventions for psychosis in adolescents](#)

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## Systematic reviews from other sources

Assessing procedural satisfaction in the pediatric ED: A systematic review.

Benign paediatric parotid mass & facial palsy: Systematic review.

Characterisation of COVID-19 Pandemic in Paediatric Age Group: A Systematic Review and Meta-Analysis.

Effect of general anaesthesia on intraocular pressure in paediatric patients: a systematic review

Factors that influence family and parental preferences and decision making for unscheduled paediatric healthcare - systematic review.

Intranasal Ketamine for Treatment of Acute Pain in Pediatrics: A Systematic Review.

Is Use of Topical Vancomycin in Pediatric Spine Surgeries a Safe Option in the Prevention of Surgical Site Infections? A Meta-analysis and Systematic Review of the Literature.

Layperson-Led vs Professional-Led Behavioral Interventions for Weight Loss in Pediatric Obesity: A Systematic Review and Meta-analysis.

Non-operative versus operative management of open fractures in the paediatric population: A systematic review and meta-analysis of the adverse outcomes.

Pediatric psoriasis and association with cardiovascular and metabolic comorbidities: Systematic review and meta-analysis.

Predictors of Post-Thrombotic Syndrome in Pediatric Thrombosis: A Systematic Review and Meta-Analysis of the Literature.

Radiographic timelines for pediatric healing fractures: a systematic review.

Reporting on outcome measures in pediatric chronic intestinal failure: A systematic review.

Risk factors for developing acute compartment syndrome in the pediatric population: a systematic review and meta-analysis.

Safety of azithromycin in pediatrics: a systematic review and meta-analysis

A Systematic Review of Medication Adherence Interventions in Pediatric Sickle Cell Disease.

A systematic review of population pharmacokinetic analyses of digoxin in the paediatric population.

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This month's clinical questions are...

Can providing rinse-free hand wash reduce absenteeism among preschool and school children?

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

Does taxation of sugar-added foods reduce their consumption, the incidence of obesity, and/or impact on other health outcomes?

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How does lorazepam (intravenous) or midazolam (any route) compare with diazepam (any route) for children and adolescents with acute tonic-clonic convulsions?

In preterm infants, what are the effects of probiotics for preventing necrotizing enterocolitis?

What are the benefits and harms of varicella added to the childhood measles/mumps/rubella vaccine (MMRV or MMR+V)?

What benefits and harms are associated with the childhood measles/mumps/rubella (MMR) vaccine?

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## Primary Research

**Title:** [Characteristics of Reported Pediatric Medication Errors in Northern Ireland and Use in Quality Improvement.](#)

**Abstract/Conclusion:** Incident reports identified neonates, a shortlist of drugs, and specific error types, associated with modifiable behaviors, as priority improvement targets. These findings direct further study and inform intervention development, such as specific training in calculations to prevent dosing errors. Involving experienced practitioners both endorsed the findings and engaged the practice community in their future implementation. The utility of incident reports to direct improvement efforts may offset the limitations in their representativeness.

**Title:** [Development and validation of a mathematical model to quantify antibiotic consumption in paediatric population: A hospital-based pilot study.](#)

**Abstract/Conclusion:** Weight specific DDD/100 PD can be explored further as a tool to standardise the quantification and comparison of consumption of drugs in paediatric population.

**Title:** [Dynamic changes in paediatric invasive pneumococcal disease after sequential switches of conjugate vaccine in Belgium: a national retrospective observational study](#)

**Abstract/Conclusion:** After a significant decrease during the PCV13 period, paediatric invasive pneumococcal disease incidence increased again during the PCV10 period. This observation mainly resulted from a significant increase of serotype 19A cases. During the PCV10 period, dominant serotype 19A clones differed from those detected during previous vaccine periods. Whether changes in epidemiology resulted from the vaccine switch or also from natural evolution remains to be further elucidated.

**Title:** [Early morbidities following paediatric cardiac surgery: a mixed-methods study](#)

**Abstract/Conclusion:** Families and clinicians prioritised overlapping but different morbidities, but extracorporeal life support and multiple morbidities are particularly important adverse outcomes.

**Title:** [Efficacy and safety of oral immunotherapy with AR101 in European children with a peanut allergy \(ARTEMIS\): a multicentre, double-blind, randomised, placebo-controlled phase 3 trial](#)

**Abstract/Conclusion:** AR101 oral immunotherapy treatment led to rapid desensitisation to peanut protein, with a predictable safety profile that improved with treatment, and an associated improvement in self-reported and caregiver-reported food allergy-related quality of life. These patient-oriented outcomes provide invaluable data to help physicians, patients, and caregivers make informed, shared decisions on the management of peanut allergy.

**Title:** [Incorporating a clinical oncology pharmacist into an ambulatory care pharmacy in pediatric hematology-oncology and transplant clinic: Assessment and significance.](#)

**Abstract/Conclusion:** The involvement of clinical oncology pharmacist into a specialized outpatient clinic of hematology-oncology and transplant clinic plays an integral role in minimizing the adverse effect and reduction in readmission into the hospital.

**Title:** [Ketoacidosis in Children and Adolescents With Newly Diagnosed Type 1 Diabetes During the COVID-19 Pandemic in Germany](#)

**Abstract/Conclusion:** This study found a significant increase in diabetic ketoacidosis and severe ketoacidosis at diabetes diagnosis in children and adolescents during the COVID-19 pandemic in Germany. Underlying causes may be multifactorial and reflect reduced medical services, fear of approaching the health care system, and more complex psychosocial factors.

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## BMJ Best Practice

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

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

**Topic:** [Assessment of cyanosis in the newborn](#)

**Topic:** [Migraine headache in children](#)

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

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## DynaMed Plus

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No updates.

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### Paediatrics in the News

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

No updates.

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### 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.

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## 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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