

## Paediatrics Evidence Update June 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.

**BMJ** Best Practice

**Click here to access on site**

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DynaMed Plus<sup>®</sup>

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KnowledgeShare

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NICE Guidance	Other Guidance
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## NICE

National Institute for  
Health and Care Excellence

### Most recent guidance published:

[Intravenous fluid therapy in children and young people in hospital \[NG29\]](#)

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## Other Guidance/Reports

[The role of dietary fibre and prebiotics in the paediatric diet, Canadian Paediatric Society](#)

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Systematic Reviews and Research Protocols

[Cognitive-behavioural therapy \(CBT\) interventions for young people aged 10 to 18 with harmful sexual behaviour](#)

[Higher versus lower protein intake in formula-fed low birth weight infants](#)

[Low molecular weight heparin for prevention of central venous catheter-related thrombosis in children](#)

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## Systematic reviews from other sources

[Association of serum uric acid concentration with components of pediatric metabolic syndrome: A systematic review and meta-analysis.](#)

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[Asthma and COVID-19 in children - a systematic review and call for data.](#)

[The clinical characteristics of pediatric inpatients with SARS-CoV-2 infection: a meta-analysis and systematic review.](#)

[Clinical Features and Outcome of SARS-CoV-2 Infection in Children: A Systematic Review and Meta-analysis.](#)

[Coronavirus disease 2019 \(COVID-19\) in children: a systematic review of imaging findings.](#)

[Effect of Dexmedetomidine in children undergoing general anaesthesia with sevoflurane: a meta-analysis and systematic review.](#)

[Effects of vitamin D deficiency on neurobehavioural outcomes in children: a systematic review.](#)

[Immune Response to Vaccination in Children and Young People with Inflammatory Bowel Disease: A Systematic Review and Meta-Analysis.](#)

[Is cognitive training an effective tool for improving cognitive function and real-life behaviour in healthy children and adolescents? A systematic review.](#)

[Novel Coronavirus Infection \(COVID-19\) in Children Younger Than One Year: A Systematic Review of Symptoms, Management and Outcomes.](#)

[The optimal management of Seymour fractures in children and adolescents: a systematic review protocol.](#)

[Parenting Interventions in Pediatric Primary Care: A Systematic Review.](#)

[Protocol for a systematic review and meta-analysis of long-term neurocognitive outcomes in paediatric traumatic brain injury.](#)

[The role of viral co-infections in the severity of acute respiratory infections among children infected with respiratory syncytial virus \(RSV\): A systematic review and meta-analysis.](#)

[Safety of Rapid Infliximab Infusions in Children: A Systematic Review.](#)

[Strategies for the Prevention and Treatment of Iatrogenic Withdrawal from Opioids and Benzodiazepines in Critically Ill Neonates, Children and Adults: A Systematic Review of Clinical Studies.](#)

[Tumefactive Demyelinating Lesions in Children: A Rare Case of Conus Medullaris Involvement and Systematic Review of the Literature.](#)

[Whole-body magnetic resonance imaging in children - how and why? A systematic review.](#)



**This month's clinical questions are...**

[For children with mild to moderate exacerbation of asthma, how does prednisolone compare with dexamethasone for improving outcomes?](#)

What are the effects of supplementary feeding for children in food insecure and malnourished populations?

What are the views of parents on information related to routine childhood vaccination?

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## Primary Research

**Title:** [Assessment of Acute Acral Lesions in a Case Series of Children and Adolescents During the COVID-19 Pandemic](#)

**Abstract/Conclusion:** The clinical, histologic, and laboratory test results were compatible with a diagnosis of pernio, and no evidence was found to support the implication of SARS-CoV-2 infection.

**Title:** [Benefits of a Pediatric Antimicrobial Stewardship Program in Antimicrobial Use and Quality of Prescriptions in a Referral Children's Hospital.](#)

**Abstract/Conclusion:** Our ASP safely decreased AU and expenditure, and a trend towards improvement in QP was also observed.

**Title:** [Clinical Characteristics of 58 Children With a Pediatric Inflammatory Multisystem Syndrome Temporally Associated With SARS-CoV-2](#)

**Abstract/Conclusion:** In this case series of hospitalized children who met criteria for PIMS-TS, there was a wide spectrum of presenting signs and symptoms and disease severity, ranging from fever and inflammation to myocardial injury, shock, and development of coronary artery aneurysms.

**Title:** ["Coming second all the time": life in lockdown for siblings of disabled children](#)

**Abstract/Conclusion:** Many siblings rely on school, family and friends for their own support and respite. Without these support mechanisms how would young siblings manage and cope and what is the lasting impact on their wellbeing?

**Title:** [Effectiveness of Clinical Nurse's interventions in reducing medication errors in a pediatric ward.](#)

**Abstract/Conclusion:** Clinically based nurse's participation in action research enabled practice reflection, development and implementation of a bundle of interventions which led to a change in nursing practice and subsequent reduction in medication administration error rates. Active engagement of nurses in research empowers them to find solutions that are tailored to their own practice culture and environment.

**Title:** [Kawasaki-like multisystem inflammatory syndrome in children during the covid-19 pandemic in Paris, France: prospective observational study](#)

**Abstract/Conclusion:** The ongoing outbreak of Kawasaki-like multisystem inflammatory syndrome among children and adolescents in the Paris area might be related to SARS-CoV-2. In this study an unusually high proportion of the affected children and adolescents had gastrointestinal symptoms, Kawasaki disease shock syndrome, and were of African ancestry.

**Title:** [Multisystem Inflammatory Syndrome Related to COVID-19 in Previously Healthy Children and Adolescents in New York City](#)

**Abstract/Conclusion:** This study describes 17 previously healthy children and adolescents who developed an inflammatory phenotype related to COVID-19. Features overlapped with, but were distinct from, those of KD and TSS. The observed pattern of cytokine expression suggests an interferon signaling component, along with IL-6 and IL-10 production, seen in KD5 and acute pulmonary COVID-19 infection. The lack of elevated TNF- $\alpha$  or IL-13 levels may differ from acute pulmonary COVID infections. The occurrence of abnormal cardiac findings suggests the need for long-term surveillance. Limitations include the small number of patients, short follow-up period, and the inability to establish causality.

**Title:** [Rituximab for High-Risk, Mature B-Cell Non-Hodgkin's Lymphoma in Children](#)  
**Abstract/Conclusion:** Rituximab added to standard LMB chemotherapy markedly prolonged event-free survival and overall survival among children and adolescents with high-grade, high-risk, mature B-cell non-Hodgkin's lymphoma and was associated with a higher incidence of hypogammaglobulinemia and, potentially, more episodes of infection.

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## BMJ Best Practice

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

Topic: [Common hereditary lysosomal storage diseases](#)

Topic: [Cystic fibrosis](#)

Topic: [Hydrocele](#)

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## DynaMed Plus

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**26 Jun 2020**

coinfection with other respiratory pathogens common in children with COVID-19 (PLoS Med 2020 Jun)

View in [COVID-19 and Pediatric Patients](#)

**26 Jun 2020**

daily zinc supplementation may improve weight-for-age and weight-for-length z-scores in children < 7 months old (Cochrane Database Syst Rev 2020 Apr 8)

View in [Micronutrient Supplementation in Children in Low- and Middle-income Countries](#)

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## Paediatrics in the News

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

[Top NHS doctor issues advice for children going back to school](#)

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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

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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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