Paediatric Emergency Department

Evidence Update

October 2017
Your Outreach Librarian – Helen Pullen

Whatever your information needs, the library is here to help. Just email us at library@uhbristol.nhs.uk

**Outreach:** Your Outreach Librarian can help facilitate evidence-based practice for all in the team, as well as assisting with academic study and research. We also offer one-to-one or small group training in **literature searching, critical appraisal and medical statistics.** Get in touch: library@uhbristol.nhs.uk

**Literature searching:** We provide a literature searching service for any library member. For those embarking on their own research it is advisable to book some time with one of the librarians for a one-to-one session where we can guide you through the process of creating a well-focused literature research. Please email requests to library@uhbristol.nhs.uk

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**Training Calendar 2017**

*All sessions are one hour*

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<th>October (12.00-13.00)</th>
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<td>Tue 17th</td>
<td>Critical Appraisal</td>
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<td>Interpreting Statistics</td>
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<th>November (13.00-14.00)</th>
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<td>Thu 2nd</td>
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<td>Fri 10th</td>
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<td>Tue 21st</td>
<td>Literature Searching</td>
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<td>Wed 29th</td>
<td>Critical Appraisal</td>
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Key Papers

Below is a selection of articles that were recently added to the healthcare databases.

If you would like any of the following articles in full text, or if you would like a more focused search on your own topic, then get in touch: library@uhbristol.nhs.uk

http://www.pemdatabase.org/Recent_studies.html

Yield of Anaerobic Blood Cultures in Pediatric Emergency Department Patients
(Pediatr Infect Dis J, abstract)

Return Visit Admissions May Not Indicate Quality of Emergency Department Care for Children
(Acad Emerg Med, abstract)

Internet Usage by Parents Prior to Seeking Care at a Pediatric Emergency Department: Observational Study
(Interact J Med Res, abstract)

Pediatric orthopedic injuries: evidence-based management in the emergency department [digest]
(Pediatr Emerg Med Pract, abstract)

1. Airway emergencies presenting to the paediatric emergency department requiring advanced management techniques.

Author(s) Simma, Leopold; Cincotta, Domenic; Sabato, Stefan; Long, Elliot

Source Archives of disease in childhood; Sep 2017; vol. 102 (no. 9); p. 809-812

Publication Date Sep 2017

DOI 10.1136/archdischild-2016-311945

Available at Archives of disease in childhood from BMJ Journals - NHS
# Table of Contents

## Archives of Disease in Childhood

**October 2017 - Volume 102 - 10**

‘Best interests’ in paediatric intensive care: an empirical ethics study

Giles Birchley, Rachael Gooberman-Hill, Zuzana Deans, James Fraser, Richard Huxtable

Arch Dis Child 2017; 102:930-935 Published Online First: 13 Apr 2017 ,

[http://adc.bmj.com/content/102/10/930.abstract?etoc](http://adc.bmj.com/content/102/10/930.abstract?etoc)

## Critical Care Medicine

**October 2017 - Volume 45 - Issue 10**

**Neurobiologic Correlates of Attention and Memory Deficits Following Critical Illness in Early Life**

Schiller, Raisa M.; IJsselstijn, Hanneke; Madderom, Marloes J.; Rietman, André B.; Smits, Marion; van Heijst, Arno F. J.; Tibboel, Dick; White, Tonya; Muetzel, Ryan L.

**Outcomes of Patient- and Family-Centered Care Interventions in the ICU: A Systematic Review and Meta-Analysis**

Goldfarb, Michael J.; Bibas, Lior; Bartlett, Virginia; Jones, Heather; Khan, Naureen

**Evaluating Cognitive Deficits in Childhood After Neonatal Critical Illness With MRI**

Thiagarajan, Ravi R.

**Sedating Children on Extracorporeal Membrane Oxygenation: Achieving More With Less**

Argent, Andrew C.

**Sedation Management in Children Supported on Extracorporeal Membrane Oxygenation for Acute Respiratory Failure**

Schneider, James B.; Sweberg, Todd; Asaro, Lisa A.; Kirby, Aileen; Wypij, David; Thiagarajan, Ravi R.; Curley, Martha A. Q.; for the Randomized Evaluation of Sedation Titration for Respiratory Failure (RESTORE) Study Investigators

**Faster Blood Flow Rate Does Not Improve Circuit Life in Continuous Renal Replacement Therapy: A Randomized Controlled Trial**

Fealy, Nigel; Aitken, Leanne; du Toit, Eugene; Lo, Serigne; Baldwin, Ian
Safety Hazards During Intrahospital Transport: A Prospective Observational Study
Bergman, Lina M.; Pettersson, Monica E.; Chaboyer, Wendy P.; Carlström, Eric D.; Ringdal, Mona L.

Updating Evidence for Using Therapeutic Hypothermia in Pediatric Severe Traumatic Brain Injury
Tasker, Robert C.; Akhondi-Asl, Alireza

The Overlap Between Burnout and Depression in ICU Staff
Colville, Gillian A.; Smith, Jared G.

Pediatric Anesthesia

Volume 27, Issue 10 Pages 979 - 1066, October 2017

Position and relative size of the vertebral artery according to age: Implications for internal jugular vein access (pages 997–1002)
Chul-Woo Jung, Gulomjon Jalilov, In-Kyung Song, Eun-Hee Kim, Hee-Soo Kim, Jin-Tae Kim and Ji-Hyun Lee
Version of Record online: 24 JUL 2017 | DOI: 10.1111/pan.13209

Anatomic variations of neck vessels and the course of pediatric internal jugular veins (pages 1003–1009)
Kai-Ming Yuan, En-Ci Liu, Ping Li, Wang-Ning Shangguan, Jun Li and Qing-Quan Lian
Version of Record online: 24 JUL 2017 | DOI: 10.1111/pan.13211

The role of ultrasound in appropriate endotracheal tube size selection in pediatric patients (pages 1015–1020)
Demet Altun, Mukadder Orhan-Sungur, Achmet Ali, Tülay Özkan-Seyhan, Nükhet Sivrikoz and Emre Çamcı
Version of Record online: 28 AUG 2017 | DOI: 10.1111/pan.13220

Different predictivity of fluid responsiveness by pulse pressure variation in children after surgical repair of ventricular septal defect or tetralogy of Fallot (pages 1056–1063)
Ding Han, Shoudong Pan, Xiaonan Wang, Qingyan Jia, Yi Luo, Jia Li and Chuan Ou-Yang
Version of Record online: 31 AUG 2017 | DOI: 10.1111/pan.13218
What is KnowledgeShare?
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ACCM practice parameters for management of pediatric and neonatal septic shock (August 2017)

The American College of Critical Care Medicine (ACCM) has published new practice parameters for hemodynamic support of pediatric and neonatal septic shock that continue to emphasize timely fluid administration, early initiation of broad-spectrum antibiotics, and, in patients with fluid refractory shock, prompt administration of vasoactive drug infusions (algorithm 1) [37]. After resuscitation, management is targeted to improving physiologic indicators of perfusion and vital organ function within the first six hours of care (table 2). The guidelines also recommend that each pediatric institution develop multidisciplinary approaches or "bundles" designed to increase adherence to these guidelines, decrease time to therapy, and improve outcomes in pediatric septic shock. (See "Septic shock in children: Rapid recognition and initial resuscitation (first hour)" and "Septic shock in children: Ongoing management after resuscitation").

Home use of topical anesthesia to control pain from corneal abrasions (August 2017)

In a retrospective study of 444 patients with corneal abrasions given a 24-hour supply of topical tetracaine at the initial emergency department visit, there were no documented serious complications or uncommon adverse events [38]. However, definitive outcomes were only known for 120 patients who returned for rechecks. Patients receiving topical tetracaine were more likely to return for emergency department reevaluation compared with patients who did not receive tetracaine. Topical analgesia was prescribed inappropriately in one-third of patients, for lesions other than simple corneal abrasion (eg, large corneal abrasions, retained rust rings, herpes keratitis, anterior uveitis, and corneal erosions). Because of the possibility of overuse (ie, use beyond 24 hours) and the risk of inappropriate administration, we favor other means of pain control and discourage the prescribing of topical anesthetic agents. More evidence is needed to establish the safety of this practice in patients with simple corneal abrasions. (See "Corneal abrasions and corneal foreign bodies: Management", section on "Pain control").
Postoperative epidural analgesia versus systemic analgesia for thoraco-lumbar spine surgery in children Joanne Guay, Santhanam Suresh, Sandra Kopp, Rebecca L Johnson
Online Publication Date: October 2017

Heat and moisture exchangers versus heated humidifiers for mechanically ventilated adults and children Donna Gillies, David A Todd, Jann P Foster, Bisanth T Batuwitage
Online Publication Date: September 2017

Library Opening Times
Staffed hours: 8am-5pm, Monday to Friday
Swipe-card access: 7am-11pm, seven days a week
Level Five, Education and Research Centre
University Hospitals Bristol
Contact your Outreach Librarian:
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library@uhbristol.nhs.uk