Emergency Medicine Evidence Update
March 2019

Produced by the Clinical Librarian Service

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 or call extension 6042.

Alternatively you can contact one of the team directly:
Rebecca.Howes@portshosp.nhs.uk
Aaron.Razack@porthosp.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 EM we would recommend a literature search or KnowledgeShare bulletin.

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.

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.
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### NICE
National Institute for Health and Care Excellence

**Most recent guidance published:**
Delirium: prevention, diagnosis and management [CG103]

### Other Guidance/Reports

Latest guidance from other sources, including Royal College of Emergency Medicine

- **Position Statement: Improving Quality Indicators and System Metrics for Emergency Departments in England**
- **National flu immunisation programme plan 2019/20**
- **NHS England Emergency Preparedness, Resilience and Response (EPRR): Guidance for the initial management of self presenters from incidents involving hazardous materials**

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### Cochrane Library

Systematic Reviews and Research Protocols

No new relevant reviews or protocols.

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### Systematic reviews from other sources

**Emergency Department Interventions for Older Adults: A Systematic Review.**
Journal of the American Geriatrics Society
Management of Isolated Skull Fractures in Pediatric Patients: A Systematic Review.
Pediatric Emergency Care

Antibiotic Treatment and Appendectomy for Uncomplicated Acute Appendicitis in Adults and Children: A Systematic Review and Meta-analysis.
Annals of Surgery

Does This Patient Have a Severe Snake Envenomation?: The Rational Clinical Examination Systematic Review.
JAMA Surgery

Impact of Pharmacist-led Discharge Counseling on Hospital Readmission and Emergency Department Visits: A Systematic Review and Meta-analysis
Journal of Hospital Medicine

Non-urgent paediatric emergency department presentation: A systematic review
Journal of Paediatrics and Child Health

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Cochrane Clinical Answers

This month's clinical questions are...

For children with persistent asthma, does adding inhaled salmeterol to fluticasone propionate increase the risk of serious adverse events (SAEs)?

For children with sepsis or septic shock, how does liberal fluid therapy compare with conservative fluid therapy?

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Pediatric Emergency Medicine

Recent PEM studies, Click to view

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Primary Research
A selection of articles from relevant journals and databases.

Paediatrics
Measles, Mumps, Rubella Vaccination and Autism: A Nationwide Cohort Study
Annals of Internal Medicine

Cardiac Consultation in the Emergency Department
Clinical Pediatric Emergency Medicine

Nasal foreign bodies in the paediatric emergency department
Irish Journal of Medical Science

Increasing optimal coagulation factor dosing in the paediatric emergency department: A quality improvement study
Haemophilia

Pediatric Minor Traumatic Brain Injury With Intracranial Hemorrhage : Identifying Low-Risk Patients Who May Not Benefit From ICU Admission
Pediatric Emergency Care

Adults
The Adult Patient with Congenital Heart Disease in the Emergency Department
Clinical Pediatric Emergency Medicine

EMS Can Safely Transport Intoxicated Patients to a Sobering Center as an Alternate Destination
Annals of Emergency Medicine

Emergency department non-invasive cardiac output study (EDNICO): a feasibility and repeatability study
Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine

Lack of Significant Coronary History and ECG Misinterpretation Are the Strongest Predictors of Undertriage in Prehospital Chest Pain
Journal of Emergency Nursing

Subjective sleep quality and its etiology in the emergency department
Canadian Journal of Emergency Medicine

General
Measurement and improvement of emergency department performance through inspection and rating: an observational study of emergency departments in acute hospitals in England
Emergency Medicine Journal

Distributions of the National Early Warning Score (NEWS) across a healthcare system following a large-scale roll-out
Emergency Medicine Journal

Nurse-Leader Collaborative Improvement Project: Improving Patient Experience in the Emergency Department
Journal of Emergency Nursing

Minimum operational standards for 24/7 available emergency departments in the Netherlands: a first step taken by emergency physicians using an e-Delphi approach
European Journal of Emergency Medicine

Provider interruptions and patient perceptions of care: an observational study in the emergency department
BMJ Quality & Safety
**Topic:** Extracorporeal membrane oxygenation (ECMO)  
**Summary:** Left ventricular unloading during venoarterial ECMO may reduce mortality in adults with cardiogenic shock (J Am Coll Cardiol 2019 Feb 19)

**Topic:** Skin abscesses, furuncles, and carbuncles  
**Summary:** Bedside ultrasound guidance may reduce treatment failure compared to physical exam alone in adults having incision and drainage for uncomplicated soft tissue abscess (Ann Emerg Med 2019 Jan)

**Topic:** Pulmonary embolism treatment  
**Summary:** Outpatient treatment with discharge within 24 hours appears to reduce hospitalization without increasing adverse events compared to inpatient treatment in low-risk patients with acute symptomatic PE (Acad Emerg Med 2018 Sep)

**Topic:** Lumbar puncture (LP)  
**Summary:** Ultrasound guidance may improve puncture success rate and reduce risk for traumatic puncture and pain compared to landmark-based approach in patients having lumbar puncture (Acad Emerg Med 2019 Jan)

**Topic:** Spider bite  
**Summary:** Review of venomous bites, stings, and poisoning (Infect Dis Clin North Am 2019 Mar;33(1):17)

**Topic:** Opioid overdose  
**Summary:** Review of links among opioid use, overdose, and suicide (N Engl J Med 2019 Jan 3;380(1):71)

**Topic:** Retinal detachment  
**Summary:** Portable ocular ultrasound may have high sensitivity and specificity for diagnosing retinal detachment (Acad Emerg Med 2019 Jan 13 early online)

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**Emergency Medicine in the News**

Urgent same day care to spare half a million more patients unnecessary hospital stays as part of NHS Long Term Plan

NHS to test new rapid care measures for patients with the most urgent mental and physical health needs

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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 (BNF) and BNF for Children**
Journals & table of contents alerts

The Clinical Librarian team can help set up table of content alerts to the journal of your choice.

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