



Welcome to **February issue** of the
Prehospital Emergency Services Current Awareness Update.

The aim of this Current Awareness Update is to provide a digest of information supporting evidence based practice in prehospital emergency services. Access to resources from open access and NICE Evidence Search journals are freely available to Ambulance Trust staff. A small number may be only available via your local Library services, where they exist.

Introduction

Welcome to the February Edition. NAWAS LKS has put together a guide to free research resources on the Zikas Virus. The guide is available [here](#). Please feel free to share or re-use.

This month JAMA published new Sepsis definitions. Information is on these publications is here.

- Singer M et al. The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). JAMA, February 23, 2016, Vol 315, No. 8. <http://jama.jamanetwork.com/article.aspx?articleid=2492881> [Accessed 24 February 2016]. Free to access.
- Shankar-Hari M et al. Developing a new definition and assessing new clinical criteria for septic shock: For the Third International Consensus Definitions for Sepsis and Septic 3 Shock (Sepsis-3). JAMA, February 23, 2016, Vol 315, No. 8. <http://jama.jamanetwork.com/article.aspx?articleid=2492876> [Accessed 24 February 2016]. Requires Login.
- Seymour, CW et al. Assessment of clinical criteria for sepsis. JAMA, February 23, 2016, Vol 315, No. 8. <http://jama.jamanetwork.com/article.aspx?articleid=2492875> [Accessed 24 February 2016]. Requires Login.

Matt Holland, March 2016

Different ways to access the update

If you are reading this then you are already using the pdf version of the Update. There are alternative social media routes you could try.

Twitter

Follow @NWASLibrary or go to <https://twitter.com/NWASLibrary>. The NWAS LKS Twitter account Tweets the latest relevant research for Paramedic Practice as it's published from scholarly/academic journals. If you don't want to subscribe just search for [#NWASLKSParamedic](#)

Online Bibliography

All this month's articles included here are available through the Mendeley Group [Prehospital Emergency Care Current Awareness Current](#). Click through to see the Abstracts with links to sources of full text.

Last month's articles are available in a [backfile](#). From now on all the previous months article will accumulate in the [backfile](#). This should mean that information about article sin in past updates is always available.

Note the Tags don't work at the moment. This is a known problem and Mendeley are working on a fix.

Feedback to

Matt Holland, NWAS LKS Librarian

(on behalf of the National Ambulance Research Steering Group)

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This Current Awareness Update was commissioned by the National Ambulance Research Steering Group comprising of research leads from ambulance trusts in England, Scotland and Wales and other experts and groups supporting prehospital research. The aim of the group is to support the strategic development of ambulance and prehospital research whether leading, collaborating in or using research.

Research & Best Practice

The following research papers have been published in the last couple of months.

- Papers listed as **Open Access @** are freely available in full text from the link provided.
- All other papers will require you to log in with an **NHS Open Athens User Name** and **Password** to obtain the full text. These links take you to the abstract initially. To read the whole paper, choose either 'full text' or 'pdf' from the options on the abstract page. The full text option will present the article as a single webpage, the pdf. option will open as a digital copy of the original paper. Selecting either will open a page with the following link for you to enter your Athens username and password;

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To create your own Athens username and password, simply visit:

<https://openathens.nice.org.uk/>

- Where papers are not available either through **Open Access** or with your **NHS Open Athens** you may be able to get access through your own Library Service if you have one, or University, if you are registered on a course.

The research papers have been arranged by the topic headings below: *(Ctrl & Click on the heading to go straight to that section)*

[Prehospital Practitioners – Professional Development](#)

[Prehospital Research – Methods and Discussion](#)

[Diagnosis &Triage](#)

[Patient Profile](#)

[Helicopter Emergency Medical Services](#)

[On-Scene Interventions](#)

[Airway Management, Resuscitation & CPR](#)

You can find the complete **archive** of the .pdf version of Prehospital Emergency Services Current Awareness Update at the link below.

www.networks.nhs.uk/nhs-networks/nwas-library-and-information-service/esca

Prehospital Practitioners – Roles, Professional Practice and Development

- Castro Delgado, R. et al., 2016. An epidemiological approach to mass casualty incidents in the Principality of Asturias (Spain). *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.18. Available at: <http://sitrem.biomedcentral.com/articles/10.1186/s13049-016-0211-x> [Accessed March 7, 2016]. **Open Access @**
- Chopra, B.K., 2016. Paramedical personnel of the Armed Forces Medical Services: The unsung heroes. *Medical journal, Armed Forces India*, 72(1), pp.5–7. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26900215> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Cooper, S. et al., 2016. Measuring teamwork performance: Validity testing of the Team Emergency Assessment Measure (TEAM) with clinical resuscitation teams. *Resuscitation*, 101, pp.97–101. Available at: <http://www.resuscitationjournal.com/article/S0300957216000642/fulltext> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Cowling, T.E. et al., 2016. Referral outcomes of attendances at general practitioner led urgent care centres in London, England: retrospective analysis of hospital administrative data. *Emergency medicine journal : EMJ*, 33(3), pp.200–7. Available at: <http://emj.bmj.com/content/33/3/200.abstract> [Accessed March 7, 2016]. **Open Athens @**
- Donaghy, J., 2016. Skills development at a paramedic accident simulation centre. *Emergency nurse : the journal of the RCN Accident and Emergency Nursing Association*, 23(9), pp.22–4. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26853672> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Furseth, P.A., Taylor, B. & Kim, S.C., 2016. Impact of Interprofessional Education Among Nursing and Paramedic Students. *Nurse Educator*, 41(2), pp.75–79. Available at: http://journals.lww.com/nurseeducatoronline/Fulltext/2016/03000/Impact_of_Interprofessional_Education_Among.8.aspx [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Gibbons, P. & Stoklosa, H., 2016. Identification and Treatment of Human Trafficking Victims in the Emergency Department: A Case Report. *The Journal of emergency medicine*. Available at: <http://www.sciencedirect.com/science/article/pii/S0736467916000056> [Accessed March 4, 2016]. **Check with your local Library Service provider.**
- Jarou, Z.J., 2016. Early Trends among Seven Recommendations from the Choosing Wisely Campaign. *The Journal of Emergency Medicine*, 50(3), p.543. Available at: <http://www.sciencedirect.com/science/article/pii/S0736467916000159> [Accessed February 20, 2016]. **Check with your local Library Service provider.**
- Kietzmann, D. et al., 2016. Migration background and overall satisfaction with pre-hospital emergency care. *Applied nursing research : ANR*, 29, pp.96–100. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26856496> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Knox, S. et al., 2016. Regulation and registration as drivers of continuous professional competence for Irish pre-hospital practitioners: a discussion paper. *Irish journal of medical science*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26873720> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Krajicek, S., 2016. Interhospital Transfer Delays Appropriate Treatment for Patients with Severe Sepsis and Septic Shock; A Retrospective Cohort Study. *The Journal of Emergency Medicine*, 50(2), pp.364–

365. Available at: <http://www.sciencedirect.com/science/article/pii/S0736467915013979> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Mann, C.J., 2016. The burden of alcohol. *Emergency medicine journal : EMJ*, 33(3), pp.174–5. Available at: <http://emj.bmj.com/content/33/3/174.short?rss=1> [Accessed March 7, 2016]. **Open Athens @**
- Mantha, A. et al., 2016. Adaptive leadership curriculum for Indian paramedic trainees. *International journal of emergency medicine*, 9(1), p.9. Available at: <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=4761349&tool=pmcentrez&rendertype=abstract> [Accessed March 7, 2016]. **Open Access @**
- O’Meara, P. et al., 2016. Community paramedicine model of care: an observational, ethnographic case study. *BMC health services research*, 16(1), p.39. Available at: <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=4739332&tool=pmcentrez&rendertype=abstract> [Accessed February 6, 2016]. **Open Access @**
- Paix, B., 2016. Are even stronger Christmas road safety blitzes necessary? 20 years of fatality data still says no. *Emergency medicine Australasia : EMA*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26916356> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Parkinson, K. et al., 2016. Prevalence of alcohol related attendance at an inner city emergency department and its impact: a dual prospective and retrospective cohort study. *Emergency medicine journal : EMJ*, 33(3), pp.187–93. Available at: <http://emj.bmj.com/content/33/3/187.abstract> [Accessed March 7, 2016]. **Open Athens @**
- Tanabe, S., 2016. [Pre-hospital medicine and medical control system in Japan]. *Nihon rinsho. Japanese journal of clinical medicine*, 74(2), pp.314–8. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26915258> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Tohira, H. et al., 2016. Is it Appropriate for Patients to be Discharged at the Scene by Paramedics? *Prehospital emergency care: official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–11. Available at: <http://www.tandfonline.com/doi/abs/10.3109/10903127.2015.1128028?journalCode=ipec20#.VtzykFuLTnA> [Accessed March 7, 2016]. **Check with your local Library Service provider.**

Prehospital Research – Methods and Discussion

- Pocock, H. et al., 2016. Human factors in prehospital research: lessons from the PARAMEDIC trial. *Emergency medicine journal : EMJ*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26917497> [Accessed March 7, 2016]. **Open Athens @**

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Diagnosis and Triage

- Al-Dubai, S.A. et al., 2016. Pre-hospital delays in ischemic stroke patients in a Malaysian tertiary hospital. *International journal of stroke : official journal of the International Stroke Society*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26865155> [Accessed March 7, 2016]. **Check with your local Library Service provider.**
- Beauloye, C. et al., 2016. Pre-hospital management of acute coronary syndrome patients in Belgium and Luxembourg and other Western European countries. *Acta cardiologica*, 71(1), pp.15–24. Available at:

<http://www.ncbi.nlm.nih.gov/pubmed/26853249> [Accessed March 7, 2016]. **Check with your local Library Service provider.**

Bøtker, M.T. et al., 2016. Dyspnea, a high-risk symptom in patients suspected of myocardial infarction in the ambulance? A population-based follow-up study. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.15. Available at:

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Chuang, J.-F. et al., 2016. Use of the reverse shock index for identifying high-risk patients in a five-level triage system. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.12.

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<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=4769426&tool=pmcentrez&rendertype=abstract> [Accessed March 7, 2016]. **Open Access @**

Hagiwara, M.A. et al., 2016. Patient safety and patient assessment in pre-hospital care: a study protocol. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.14. Available at:

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<http://www.tandfonline.com/doi/abs/10.3109/10903127.2015.1115933?journalCode=ipec20>

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Williams, T.A., Martin, R., et al., 2016. Use of serum lactate levels to predict survival for patients with out-of-hospital cardiac arrest: A cohort study. *Emergency medicine Australasia : EMA*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26929190> [Accessed March 7, 2016]. **Check with your local Library Service provider.**

Williams, T.A., Tohira, H., et al., 2016. The ability of early warning scores (EWS) to detect critical illness in the prehospital setting: A systematic review. *Resuscitation*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26905389> [Accessed March 7, 2016]. **Check with your local Library Service provider.**

Patient Profile

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Kloot, K. et al., 2016. Initial destination hospital of paediatric prehospital patients in rural Victoria. *Emergency medicine Australasia : EMA*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26933829> [Accessed March 7, 2016]. **NHS Open Athens @**

Helicopter Emergency Medical Services

Burns, B. et al., Difficult Intubation Factors in Prehospital Rapid Sequence Intubation by an Australian Helicopter Emergency Medical Service. *Air medical journal*, 35(1), pp.28–32. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26856657> [Accessed February 25, 2016]. **Check with your local Library Service provider.**

Kobayashi, M., 2016. [Prehospital treatment by the doctor delivery system using helicopter]. *Nihon rinsho. Japanese journal of clinical medicine*, 74(2), pp.182–6. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26918255> [Accessed March 7, 2016]. **Check with your local Library Service provider.**

Matsumoto, H. et al., 2016. Dispatch of Helicopter Emergency Medical Services Via Advanced Automatic Collision Notification. *The Journal of emergency medicine*, 50(3), pp.437–443. Available at: <http://www.sciencedirect.com/science/article/pii/S0736467915012561> [Accessed February 20, 2016]. **Check with your local Library Service provider.**

On-Scene Interventions

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Brokmann, J.C. et al., 2016. Analgesia by telemedically supported paramedics compared with physician-administered analgesia: A prospective, interventional, multicentre trial. *European journal of pain (London, England)*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26914284> [Accessed March 2, 2016]. **Check with your local Library Service provider.**

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Kessler, D.O. et al., 2015. Disparities in Adherence to Pediatric Sepsis Guidelines across a Spectrum of Emergency Departments: A Multicenter, Cross-sectional Observational In Situ Simulation Study. *The Journal of emergency medicine*, 50(3), pp.403–415.e3. Available at: <http://www.sciencedirect.com/science/article/pii/S0736467915008938> [Accessed February 20, 2016]. **Check with your local Library Service provider.**

Larsson, G. et al., 2016. Prehospital fast track care for patients with hip fracture: Impact on time to surgery, hospital stay, post-operative complications and mortality a randomised, controlled trial. *Injury*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/26895715> [Accessed March 6, 2016]. **Check with your local Library Service provider.**

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Struck, M.F. & Hilbert-Carius, P., 2016. Point-of-care coagulometry in prehospital emergency patients - are international normalized ratios useful? *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.17. Available at: <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=4759783&tool=pmcentrez&rendertype=abstract> [Accessed March 7, 2016]. **Open Access @**

Airway Management, Resuscitation & CPR

Brown, N., 2016. Pre-hospital resuscitation: what shall we tell the family? *Journal of Paramedic Practice*, 8(2), pp.86–89. Available at: <http://www.paramedicpractice.com/cgi-bin/go.pl/library/abstract.html?uid=107296> [Accessed March 7, 2016]. **Check with your local Library Service provider.**

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Kashiura, M. et al., 2016. Applying the termination of resuscitation rules to out-of-hospital cardiac arrests of both cardiac and non-cardiac etiologies: a prospective cohort study. *Thille(London, England)*, 20(1), p.49. Available at: <http://ccforum.biomedcentral.com/articles/10.1186/s13054-016-1226-4> [Accessed March 7, 2016]. **Open Access @**

Kaufmann, J. et al., 2016. Clopidogrel pharmacokinetics and pharmacodynamics in out-of-hospital cardiac arrest patients with acute coronary syndrome undergoing target temperature management. *Resuscitation*, 102, pp.63–69. Available at: <http://www.resuscitationjournal.com/article/S0300957216000848/fulltext> [Accessed March 7, 2016]. **Check with your local Library Service provider.**

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Sandroni, C. & Taccone, F.S., 2016. Does early withdrawal of life-sustaining treatment increase mortality after cardiac arrest? *Resuscitation*. Available at: <http://www.resuscitationjournal.com/article/S0300957216000794/fulltext> [Accessed March 7, 2016]. **Check with your local Library Service provider.**

How to contact your Library Service

Service	Contact	Services Offered
Isle of Wight	eMail: library@iow.nhs.uk Link to: Library Website	Full library membership of the Oliveira Library.
North West Ambulance Service	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	Outreach Service; Guest membership of local NHS Library
South East Ambulance Service	eMail: Holly.Case@sash.nhs.uk	Outreach Library Service; Membership of local NHS Library.
Yorkshire Ambulance Service	eMail: library.crh@cht.nhs.uk Link to: Library Website	Membership of Calderdale and Huddersfield NHS FT, Library and Knowledge Services
South Central Ambulance Service	eMail: library@royalberkshire.nhs.uk Link to: Library Website	Membership of Royal Berkshire NHS Foundation Trust Library
South West Ambulance Service	eMail: library.mailbox@nhs.net Link to: Library Website	Membership of the any of these libraries .
London Ambulance Service	eMail: caru.administrtor@londonambulance.nhs.uk	Document Supply, Research

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Feedback to

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This Current Awareness Update was commissioned by the National Ambulance Research Steering Group comprising of research leads from ambulance trusts in England, Scotland and Wales and other experts and groups supporting prehospital research. The aim of the group is to support the strategic development of ambulance and prehospital research whether leading, collaborating in or using research.