



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 number may be only available via your local Library services, where they exist.

Welcome to the February Issue

Resources for researchers

New resource for authors from Elsevier, The Researcher Academy

This replaces Elsevier's Publishing Campus. The Researcher Academy is a free to access suite of eLearning modules designed to cover all aspects of writing for publication. See the link [<https://researcheracademy.elsevier.com>].

Twitter. A guide to searching for research purposes

The location of this guide has moved to a new address to overcome a few technical problems. The new address is [<https://www.networks.nhs.uk/nhs-networks/nwas-library-and-information-service/guides/twitter-a-guide-to-searching-for-research-purposes>]. Please feel free to circulate through your networks.

Authorship and what it means

Interesting blog from the LSE Impact Blog on Authorship, especially where there are large numbers of contributors. It is not as straightforward as it seems. See the full blog here [<http://blogs.lse.ac.uk/impactofsocialsciences/2018/01/30/all-journals-should-have-a-policy-defining-authorship-heres-what-to-include/>].

Alternative Question Structures for Different Types of Systematic Review

A useful lost matching search structures to types of systematic review.

[<https://www.networks.nhs.uk/nhs-networks/nwas-library-and-information-service/documents/nwas-lks-advanced-search-nice-evidence-serah>]

Different ways to access the update

If you are reading this then you are already using the pdf/Word 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](#). Notes access requires a free one off registration. Then click through to see the Abstracts with links to sources of full text.

Last month's and all previous month's articles are available from the [backfile](#). This means that information about articles in in past updates is always available.

Pinboards and RSS

Articles are posted daily to a web based *pinboard* created using [Sparrho](#). The [Paramedic Practice](#) pinboard is updated daily.

The RSS feeds that are used to create this update are also available online via [Feedly](#). [Click through to see the RSS feeds](#).

Feedback to

Matt Holland, NWAS LKS Librarian

(on behalf of the National Ambulance Research Steering Group)

Email: Matt.Holland@nwas.nhs.uk

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;

To view this item, select one of the options below:

Login via Athens or your home organisation 

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 – Professional Development

Barr, N. et al., 2018. **Challenges for environmental hygiene practices in Australian paramedic-led health care: A brief report.** *American Journal of Infection Control*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/29305280> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Donnelly, E.A. et al., 2017. **Learning about behavioural emergencies: an evaluation of paramedic textbooks.** *International Paramedic Practice*, 7(3), pp.37–41. Available at: <http://www.magonlinelibrary.com/doi/10.12968/ippr.2017.7.3.37> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

James, F.O. et al., 2018. **Does Implementation of Biomathematical Models Mitigate Fatigue and Fatigue-related Risks in Emergency Medical Services Operations? A Systematic Review.** *Prehospital Emergency Care*, pp.1–12. Available at: <https://www.tandfonline.com/doi/full/10.1080/10903127.2017.1384875> [Accessed January 28, 2018]. **Open Access.**

Martin-Gill, C. et al., 2018. **Effects of Napping During Shift Work on Sleepiness and Performance in Emergency Medical Services Personnel and Similar Shift Workers: A Systematic Review and Meta-Analysis.** *Prehospital Emergency Care*, pp.1–11. Available at: <https://www.tandfonline.com/doi/full/10.1080/10903127.2017.1376136> [Accessed January 28, 2018]. **Open Access.**

McClelland, G. et al., 2017. **A survey of UK paramedics' views about their stroke training, current practice and the identification of stroke mimics.** *British Paramedic Journal*, 2(1), pp.4–15. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000001/art00002> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

McKelvin, R. et al., 2018. **The Four Pillars: outlining and aligning our future,** *Journal of Paramedic Practice*. Available at: http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=108689;article=pp_10_1_22 [Accessed January 28, 2018]. **Check with your local Library Service provider.**

McLelland, G. et al., 2018. **Epidemiology of unplanned out-of-hospital births attended by paramedics.** *BMC Pregnancy and Childbirth*, 18(1), p.15. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/29310618> [Accessed January 28, 2018]. **Open Access.**

McClelland, G. et al., 2017. **A survey of UK paramedics' views about their stroke training, current practice and the identification of stroke mimics.** *British Paramedic Journal*, 2(1), pp.4–15. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000001/art00002> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

McKelvin, R. et al., 2018. **The Four Pillars: outlining and aligning our future,** *Journal of Paramedic Practice*.. Available at: http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=108689;article=pp_10_1_22 [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Patterson, P.D. et al., 2018. **Evidence-Based Guidelines for Fatigue Risk Management in Emergency Medical Services.** *Prehospital Emergency Care*, pp.1–13. Available at: <https://www.tandfonline.com/doi/full/10.1080/10903127.2017.1376137> [Accessed January 28, 2018]. **Open Access.**

Patterson, P.D. et al., 2018. **Shorter Versus Longer Shift Durations to Mitigate Fatigue and Fatigue-Related Risks in Emergency Medical Services Personnel and Related Shift Workers: A Systematic Review.** *Prehospital Emergency Care*, pp.1–9. Available at: <https://www.tandfonline.com/doi/full/10.1080/10903127.2017.1376135> [Accessed January 28, 2018]. **Open Access.**

Siddle, J. et al., 2017. **Mobile integrated health to reduce post-discharge acute care visits: A pilot study.** *The American Journal of Emergency Medicine*. Available at: <http://linkinghub.elsevier.com/retrieve/pii/S0735675717310665> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Temple, J.L. et al., 2018. **Systematic Review and Meta-analysis of the Effects of Caffeine in Fatigued Shift Workers: Implications for Emergency Medical Services Personnel.** *Prehospital Emergency Care*, pp.1–10. Available at: <https://www.tandfonline.com/doi/full/10.1080/10903127.2017.1382624> [Accessed January 28, 2018]. **Open Access.**

Williams, B. et al., 2017. **Attachment and empathy in Australian undergraduate paramedic, nursing and occupational therapy students: A cross-sectional study.** *Collegian*, 24(6), pp.603–609. Available at: <https://doi.org/10.1016/j.colegn.2016.11.004> [Accessed January 28, 2018]. **Open Access.**

Siddle, J. et al., 2017. **Mobile integrated health to reduce post-discharge acute care visits: A pilot study.** *The American Journal of Emergency Medicine*. Available at: <http://linkinghub.elsevier.com/retrieve/pii/S0735675717310665> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Prehospital Research – Methods and Discussion

Callaham, M. & John, L.K., 2018. **What Does It Take to Change an Editor’s Mind? Identifying Minimally Important Difference Thresholds for Peer Reviewer Rating Scores of Scientific Articles.** *Annals of Emergency Medicine*. Available at: <http://dx.doi.org/10.1016/j.annemergmed.2017.12.004> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Liao, S.-F. et al., 2018. **Top-cited publications on point-of-care ultrasound: The evolution of research trends.** *The American Journal of Emergency Medicine*. Available at: <https://www.ncbi.nlm.nih.gov/pubmed/29321113> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Patterson, P.D. et al., 2018. **Systematic Review Methodology for the Fatigue in Emergency Medical Services Project.** *Prehospital Emergency Care*, pp.1–8. Available at: <https://www.tandfonline.com/doi/full/10.1080/10903127.2017.1380096> [Accessed January 28, 2018]. **Open Access.**

Helicopter Emergency Medical Services (HEMS)

Left Blank

Diagnosis and Triage

Andersson, E. et al., 2018. **Prehospital Identification of Patients with a Final Hospital Diagnosis of Stroke.** *Prehospital and Disaster Medicine*, pp.1–8. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/29317012> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Eaton, G. et al., 2017. **How appropriate are the data produced by NHS Pathways for identifying suitable cases for involvement of enhanced care teams?** *British Paramedic Journal*, 2(3), pp.16–23. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000003/art00004> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Karcioglu, O. et al., 2018. **A systematic review of the pain scales in adults: Which to use?** *The American Journal of Emergency Medicine*. Available at: <https://www.ncbi.nlm.nih.gov/pubmed/29321111> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Nudell, N.G. & Hoffman, M.D., 2017. **Acute mental status changes following an ultramarathon.** *British Paramedic Journal*, 2(117), pp.16–19. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000001/art00003> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Pourmand, A. et al., 2018. **Segway® Personal Transporter-Related Injuries: A Systematic Literature Review and Implications for Acute and Emergency Care.** *The Journal of Emergency Medicine*. Available at: <https://doi.org/10.1016/j.jemermed.2017.12.019> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Shelton, S.K., et al., 2013. **Validation of an ICD-9 code for accurately identifying emergency department patients who suffer an out-of-hospital cardiac arrest.** *Academic Emergency Medicine*, 20(5 SUPPL. 1), p.S172. Available at: [http://www.resuscitationjournal.com/article/S0300-9572\(18\)30021-2/pdf](http://www.resuscitationjournal.com/article/S0300-9572(18)30021-2/pdf) [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Shellshear, D. et al., 2018. **Emergency Point-of-Care Ultrasound Identification of Pediatric Ventriculoperitoneal Shunt Malfunctions.** *Pediatric Emergency Care*, 34(1), pp.61–63. Available at: https://journals.lww.com/pec-online/Abstract/2018/01000/Emergency_Point_of_Care_Ultrasound_Identification.14.aspx [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Vial, F. et al., 2018. **Does a major football event affect obstetric emergency attendances? A prospective observational study during Euro 2016.** *American Journal of Emergency Medicine*. Available at: <https://doi.org/10.1016/j.ajem.2018.01.026> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Patient Profile

Older People

Files, D.C. et al., 2018. **Influence of Prehospital Function and Strength on Outcomes of Critically Ill Older Adults.** *Journal of the American Geriatrics Society*. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/29322491> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

On-Scene Interventions

Bell, S., 2017. **Pre-hospital surgical cricothyroidotomy by advanced paramedics within a UK regional ambulance service: a service evaluation.** *British Paramedic Journal*, 2(2), pp.18–21. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000002/art00004> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Dickson, J. et al., 2017. **An alternative care pathway for suspected seizures in pre-hospital care: a service evaluation.** *British Paramedic Journal*, 2(2), pp.22–28. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2016/00000002/00000001/art00005> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Prehospital Emergency Services Current Awareness Update – Issue 56, February 2018

Freeman, S., 2017. **The use of Bubble Wrap for the Management of Prehospital Hypothermia.** *British Paramedic Journal*, 2(2) Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000003/art00002> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Eidstuen, S.C. et al., 2018. **When do trauma patients lose temperature? - a prospective observational study.** *Acta Anaesthesiologica Scandinavica*. Available at: <http://doi.wiley.com/10.1111/aas.13055> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Freysse, J. et al., 2018. **Measurement of the potential geographic accessibility from call to definitive care for patient with acute stroke.** *International Journal of Health Geographics*, 17(1), p.1. Available at: <https://ij-healthgeographics.biomedcentral.com/articles/10.1186/s12942-018-0121-4> [Accessed January 28, 2018]. **Open Access.**

McLelland, G. et al., 2018. **Epidemiology of unplanned out-of-hospital births attended by paramedics.** *BMC Pregnancy and Childbirth*, 18(1), p.15. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/29310618> [Accessed January 28, 2018]. **Open Access.**

Nudell, N.G. & Hoffman, M.D., 2017. **Acute mental status changes following an ultramarathon.** *British Paramedic Journal*, 2(117), pp.16–19. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000001/art00003> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Pikoulis, E. et al., 2017. **Damage Control for Vascular Trauma from the Prehospital to the Operating Room Setting.** *Frontiers in Surgery*, 4, p.73. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/29312951> [Accessed January 28, 2018]. **Open Access.**

Skube, M.E. et al., 2018. **Assessment of Prehospital Hemorrhage and Airway Care Using a Simulation Model.** *Journal of Trauma and Acute Care Surgery*, p.1. Available at: <http://insights.ovid.com/crossref?an=01586154-900000000-98830> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Airway Management, Resuscitation & CPR

Blair, L. et al., 2016. **A comparison of manual and mechanical cardiopulmonary resuscitation on the move using a manikin: single-person and two-person emergency medical service crews.** *Emergency Medicine Journal*, 33(9), p.e9. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000003/art00003> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Funada, A. et al., 2018. **Duration of cardiopulmonary resuscitation in patients without prehospital return of spontaneous circulation after out-of-hospital cardiac arrest: results from a severity stratification analysis.** *Resuscitation*, 124, pp.69–75. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/29317350> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Kawano, T. et al., 2018. **Intraosseous Vascular Access Is Associated With Lower Survival and Neurologic Recovery Among Patients With Out-of-Hospital Cardiac Arrest.** *Annals of Emergency Medicine*. Available at: <http://linkinghub.elsevier.com/retrieve/pii/S0196064417319078> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Mallinson, T.E., 2017. **A survey into paramedic accuracy in identifying the correct anatomic locations for cardiac resuscitation.** *British Paramedic Journal*, 2(2), pp.13–17. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000002/art00003> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Pilbery, R. & Standen, S., 2017. **The management of shock-resistant arrhythmias : a clinical audit.** *British Paramedic Journal*, 2(1), pp.20–24. Available at: <http://www.ingentaconnect.com/content/tcop/bpj/2017/00000002/00000001/art00004> [Accessed January 30, 2018]. **Check with your local Library Service provider.**

Sato, T. et al., 2018. **Cardiorespiratory dynamics of rescuers during cardiopulmonary resuscitation in a hypoxic environment.** *American Journal of Emergency Medicine*. Available at: <https://doi.org/10.1016/j.ajem.2018.01.029> [Accessed January 28, 2018]. **Check with your local Library Service provider.**

Stopyra, J.P. et al., 2018. **Prehospital Modified HEART Score Predictive of 30-Day Adverse Cardiac Events.** *Prehospital and Disaster Medicine*, pp.1–5. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/29316995> [Accessed January 28, 2018]. Check with your local Library Service provider. **Check with your local Library Service provider.**

Yamashita, A. et al., 2018. **Poor outcomes of out-of-hospital cardiac arrest at dinnertime in the elderly: Diurnal and seasonal variations.** *The American Journal of Emergency Medicine*. Available at: <https://doi.org/10.1016/j.ajem.2018.01.028> [Accessed January 28, 2018]. **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

Feedback to

Matt Holland, NWS LKS Librarian

(on behalf of the National Ambulance Research Steering Group)

Email: Matt.Holland@nwas.nhs.uk

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.