



Welcome to **July 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 July edition

**Open Athens Resources - Cochrane Clinical Answers.** Resource providing Evidence Based answers and analysis for common clinical questions. It is available via Open Athens. Go to [ <http://cochraneclinicalanswers.com> ]. Choose option for Login Options - top right and login with your Open Athens Account.

**Understanding Health Research: A tool for making sense of health studies.** A web based tool that enables you to analyse research based articles, developed by the Medical Research Council (MRC). There is a link to it here [ <http://www.understandinghealthresearch.org> ].

### Can you help?

I am trying to track down hard copies of these publications for a research project. Please do contact me if you have copies to share. I will arrange for them to be copied and returned by post.

- 1) Halter, M., Close, J.C.T., Snooks, H., Porsz, S., Cheung W.Y. Fit to be left: can ambulance staff use an assessment tool to decide if an older person who has fallen can be safely left at home? Report for the Department of Health Research Programme to Support Implementation of the National Service Framework for Older People. London Ambulance Service NHS Trust. November 2005.
- 2) 'Development and impact of emergency ambulance "treat and refer" protocols for non-serious 999 patients', London: London Ambulance Service.

Matt Holland, August 2016.

## 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](#). 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.

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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- 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](http://www.networks.nhs.uk/nhs-networks/nwas-library-and-information-service/esca)

## Prehospital Practitioners – Roles, Professional Practice and Development

- Abraham, R., Vyas, D., Narayan, M., & Vyas, A. (2015). Strategically Leapfrogging Education in Prehospital Trauma Management: Four-Tiered Training Protocols. *American Journal of Robotic Surgery*, 2(1), 9–15. <http://doi.org/10.1166/ajrs.2015.1022> Check with your local Library Service provider.
- Goldberg, S. A., Porat, A., Strother, C. G., Lim, N. Q., Wijeratne, H. R. S., Sanchez, G., & Munjal, K. G. (2016). Quantitative Analysis of the Content of EMS Handoff of Critically Ill and Injured Patients to the Emergency Department. *Prehospital Emergency Care*, 1–4. <http://doi.org/10.1080/10903127.2016.1194930> Check with your local Library Service provider.
- Mowafi, H., Oranmore-Brown, R., Hopkins, K. L., White, E. E., Mulla, Y. F., & Seidenberg, P. (2016). Analysis of Prehospital Transport Use for Trauma Patients in Lusaka, Zambia. *World Journal of Surgery*. <http://doi.org/10.1007/s00268-016-3629-4> Check with your local Library Service provider.
- Neeki, M., MacNeil, C., Toy, J., Dong, F., Vara, R., Powell, J., & Kwong, E. (2016). Accuracy of Perceived Estimated Travel Time by EMS to a Trauma Center in San Bernardino County, California. *Western Journal of Emergency Medicine*, 17(4), 418–426. <http://doi.org/10.5811/westjem.2016.5.29809> Open Access@
- Perry, M., & Carter, D. (2016). The ethics of ambulance ramping. *Emergency Medicine Australasia : EMA*. <http://doi.org/10.1111/1742-6723.12625> Check with your local Library Service provider.
- Verbeek, J. H., Ijaz, S., Mischke, C., Ruotsalainen, J. H., Mäkelä, E., Neuvonen, K., ... Mihalache, R. C. (2016). Personal protective equipment for preventing highly infectious diseases due to exposure to contaminated body fluids in healthcare staff. In J. H. Verbeek (Ed.), *Cochrane Database of Systematic Reviews*. Chichester, UK: John Wiley & Sons, Ltd. <http://doi.org/10.1002/14651858.CD011621.pub2> Open Access@
- Vile, J. L., Gillard, J. W., Harper, P. R., & Knight, V. A. (2016). A Queueing Theoretic Approach to Set Staffing Levels in Time-Dependent Dual-Class Service Systems. *Decision Sciences*, 00, 1–29. <http://doi.org/10.1111/deci.12236> Check with your local Library Service provider.
- Szarpak, L., Madziąła, M., & SMEREKA, J. (2016). Comparison of endotracheal intubation performed with 3 intubation devices by paramedics wearing chemical, biological, radiological, and nuclear personal protective equipment: a randomized crossover manikin trial. *The American Journal of Emergency Medicine*, 0(0), 810–814. <http://doi.org/10.1016/j.ajem.2016.06.101> Check with your local Library Service provider.

## Prehospital Research – Methods and Discussion

- Barrett, T. W., Rising, K. L., Bellolio, M. F., Hall, M. K., Brody, A., Dodd, K. W., ... Hollander, J. E. (2016). The 2016 Academic Emergency Medicine Consensus Conference, “Shared Decision-making in the Emergency Department: Development of a Policy-relevant Patient-centered Research Agenda” Diagnostic Testing Breakout Session Report. *Academic Emergency Medicine*. <http://doi.org/10.1111/acem.13050> Check with your local Library Service provider.
- Chen, E. H., Kanzaria, H. K., Itakura, K., Booker-Vaughns, J., Yadav, K., & Kane, B. G. (2016). The Role of Education in the Implementation of Shared Decision Making in Emergency Medicine: A Research Agenda. *Academic Emergency Medicine*. <http://doi.org/10.1111/acem.13059> Check with your local Library Service provider.
- Gray, S. E., & Finch, C. F. (2016). Assessing the completeness of coded and narrative data from the Victorian Emergency Minimum Dataset using injuries sustained during fitness activities as a case study. *BMC Emergency Medicine*, 16(1), 24. <http://doi.org/10.1186/s12873-016-0091-4> Open Access@

- Grudzen, C. R., Anderson, J. R., Carpenter, C. R., & Hess, E. P. (2016). Shared Decision Making in the Emergency Department: Development of a Policy-Relevant Patient-Centered Research Agenda. *Academic Emergency Medicine*. <http://doi.org/10.1111/acem.13047> **Check with your local Library Service provider.**
- Pocock, H., Deakin, C. D., Quinn, T., Perkins, G. D., Horton, J., & Gates, S. (2016). Human factors in prehospital research: lessons from the PARAMEDIC trial. *Emergency Medicine Journal : EMJ*, 33(8), 562–568. <http://doi.org/10.1136/emmermed-2015-204916> **Open Access@**

## Diagnosis and Triage

- Christie, A., Costa-Scorse, B., Nicholls, M., Jones, P., & Howie, G. (2016). Accuracy of working diagnosis by paramedics for patients presenting with dyspnoea. *Emergency Medicine Australasia*. <http://doi.org/10.1111/1742-6723.12618> **Check with your local Library Service provider.**
- Johnson, G. (2016). Trauma Triage and Trauma System Performance. *Western Journal of Emergency Medicine*, 17(3), 331–332. <http://doi.org/10.5811/westjem.2016.2.29900> **Open Access @**
- Kajsa, E., Katarina, W., Sten, L., Synneve, I.-D., Bugat, M. R., Baitar, A., ... Samaras, N. (2016). Screening for frailty among older emergency department visitors: Validation of the new FRESH-screening instrument. *BMC Emergency Medicine*, 16(1), 27. <http://doi.org/10.1186/s12873-016-0087-0> **Open Access@**
- Katz, K., Leonetti, A., Bailey, B., Surmaitis, R., Eustice, E., Kacinko, S., & Wheatley, S. (2016). Case Series of Synthetic Cannabinoid Intoxication from One Toxicology Center. *Western Journal of Emergency Medicine*, 17(3), 290–294. <http://doi.org/10.5811/westjem.2016.2.29519> **Open Access@**
- Odom, S., Howell, M., Gupta, A., Silva, G., Cook, C., & Talmor, D. (2016). Extremes of shock index predicts death in trauma patients. *Journal of Emergencies, Trauma, and Shock*, 9(3), 103. <http://doi.org/10.4103/0974-2700.185272> **Check with your local Library Service provider.**
- Ngo, K. D., Pian, P., Hanfland, R., Nichols, C. S., Merritt, G. R., Campbell, D., & Ing, R. J. (2016). Cardiac Injury After All-Terrain Vehicle Accidents in 2 Children and a Review of the Literature. *Pediatric Emergency Care*, 32(7), 468–471. <http://doi.org/10.1097/PEC.0000000000000556> **Check with your local Library Service provider.**
- Reilly, J. P., Anderson, B. J., Hudock, K. M., Dunn, T. G., Kazi, A., Tommasini, A., ... Kain, K. (2016). Neutropenic sepsis is associated with distinct clinical and biological characteristics: a cohort study of severe sepsis. *Critical Care*, 20(1), 222. <http://doi.org/10.1186/s13054-016-1398-y> **Open Access@**
- Shastry, S., Koenig, K. L., & Hirshon, J. M. (2016). Zika Virus: Critical Information for Emergency Providers. *Emergency Medicine Clinics of North America*, 34(3), e25–e37. <http://doi.org/10.1016/j.emc.2016.04.001> **Check with your local Library Service provider.**
- Smyth, M.A., Brace-McDonnell, J.S. & Perkins, G.D. Identification of adults with sepsis in the prehospital environment: a systematic review *BMJ Open* 2016;6:8 e011218 Available from: <http://dx.doi.org/10.1136/bmjopen-2016-011218> **Open Access@**
- Takahashi, T., Inoue, N., Shimizu, N., Terakawa, T., & Goldman, R. D. (2016). “Down-triage” for children with abnormal vital signs: evaluation of a new triage practice at a paediatric emergency department in Japan. *Emergency Medicine Journal : EMJ*, 33(8), 533–537. <http://doi.org/10.1136/emmermed-2015-204968> **NHS Open Athens@**
- Tiyyagura, G. K., Gawel, M., Alphonso, A., Koziel, J., Bilodeau, K., & Bechtel, K. (2016). Barriers and Facilitators to Recognition and Reporting of Child Abuse by Prehospital Providers. *Prehospital*

*Emergency Care*, 1–8. <http://doi.org/10.1080/10903127.2016.1204038> **Check with your local Library Service provider.**

Tran, J., Jeanmonod, D., Agresti, D., Hamden, K., & Jeanmonod, R. K. (2016). Prospective Validation of Modified NEXUS Cervical Spine Injury Criteria in Low-risk Elderly Fall Patients. *The Western Journal of Emergency Medicine*, 17(3), 252–7. <http://doi.org/10.5811/westjem.2016.3.29702> **Open Access@**

Walter, E. J., & Carraretto, M. (2016). The neurological and cognitive consequences of hyperthermia. *Critical Care*, 20(1), 199. <http://doi.org/10.1186/s13054-016-1376-4> **Check with your local Library Service provider.**

### Patient Profile

Bressan, S., Daverio, M., Barker, R., Molesworth, C., & Babl, F. E. (2016). Paediatric recreational vehicle-related head injuries presenting to the emergency department of a major paediatric trauma centre in Australia: Is there room for improvement? *Emergency Medicine Australasia*, 28(4), 425–433. <http://doi.org/10.1111/1742-6723.12617> **Check with your local Library Service provider.**

Dexheimer, J., Chambers, P., & Johnson, L. (2016). Asthma-related emergency department use: current perspectives. *Open Access Emergency Medicine, Volume 8*, 47–55. <http://doi.org/10.2147/OAEM.S69973> **Open Access @**

Myers, J. B., Cox, J., Teague, S., & Beck, E. (2016). Transitions of Care Model Inclusive of Unplanned Care Improves the Patient Experience. *Journal of Patient Experience*, 3(1), 20–23. <http://doi.org/10.1177/2374373516636742> **Open Access @**

Ross, L., Jennings, P. A., Smith, K., & Williams, B. (2016). Paramedic Attendance to Older Patients in Australia, and the Prevalence and Implications of Psychosocial Issues. *Prehospital Emergency Care : Official Journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, 1–7. <http://doi.org/10.1080/10903127.2016.1204037> **Check with your local Library Service provider.**

### On-Scene Interventions

Browne, L. R., Shah, M. I., Studnek, J. R., Ostermayer, D. G., Reynolds, S., Guse, C. E., ... Lerner, E. B. (2016). Multicenter Evaluation of Prehospital Opioid Pain Management in Injured Children. *Prehospital Emergency Care*, 1–9. <http://doi.org/10.1080/10903127.2016.1194931> **Check with your local Library Service provider.**

Gerhardt, C. R., Glassberg, E., Holcomb, J. B., Mabry, R. L., Schreiber, M. B., & Spinella, P. C. (2016). 2016 Military Supplement Tactical Study of Care Originating in the Prehospital Environment (TACSCOPE): Acute Traumatic Coagulopathy on the Contemporary Battlefield. *Shock (Augusta, Ga.)*, 46(3S Suppl 1), 104–107. <http://doi.org/10.1097/SHK.0000000000000683> **Check with your local Library Service provider.**

Jiang, B., Ru, X., Sun, H., Liu, H., Sun, D., Liu, Y., & Wang, W. (2016). Pre-hospital delay and its associated factors in first-ever stroke registered in communities from three cities in China. *Scientific Reports*, 6, 29795. <http://doi.org/10.1038/srep29795> **Open Access @**

Jones Rhodes, W., Steinbruner, D., Finck, L., & Flarity, K. (2016). Community Implementation of a Prehospital Spinal Immobilization Guideline. *Prehospital Emergency Care : Official Journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, 1–6. <http://doi.org/10.1080/10903127.2016.1194932> **Check with your local Library Service provider.**

Lowe, D. J., Millar, J. E., Dignon, N., & Ireland, A. (2016). Top 10 lessons from the Glasgow major incidents. *Emergency Medicine Journal*, 33(8), 596–597. <http://doi.org/10.1136/emered-2015-205626> **Open Access@**

- O'Dwyer, G., Machado, C. V., Alves, R. P., & Salvador, F. G. (2016). Mobile prehospital emergency care: an analysis of implementation in the State of Rio de Janeiro, Brazil. *Ciencia & Saude Coletiva*, 21(7), 2189–2200. <http://doi.org/10.1590/1413-81232015217.15902014> **Check with your local Library Service provider.**
- Rudd, A. G. (2016). Can emergency stroke care be delivered in an ambulance? *The Lancet Neurology*, 15(10), 998–1000. [http://doi.org/10.1016/S1474-4422\(16\)30162-4](http://doi.org/10.1016/S1474-4422(16)30162-4) **Check with your local Library Service provider.**
- Smyth, M., Brace-McDonnell, S., & Perkins, G. (2016). Impact of Prehospital Care on Outcomes in Sepsis: A Systematic Review. *Western Journal of Emergency Medicine*, 17(4), 427–437. <http://doi.org/10.5811/westjem.2016.5.30172> **Open Access@**
- Sanghavi, P., Jena, A. B., Newhouse, J. P., & Zaslavsky, A. M. (2016). Is Prehospital Advanced Life Support Harmful? *Annals of Internal Medicine*, 165(1), 70. <http://doi.org/10.7326/L16-0010> **Check with your local Library Service provider.**
- Steve, C., & Christos, S. (2016). Anticoagulation Reversal and Treatment Strategies in Major Bleeding : Update 2016. *Western Journal of Emergency Medicine*, 17(3), 264–270. <http://doi.org/10.5811/westjem.2016.3.29294> **Open Access@**

### Airway Management, Resuscitation & CPR

- Baldi, E., & Contri, E. (2016). Using an AED in particular environments: is it safe or not? Suggestions for lay people and their instructors. *Resuscitation*, 0(0), S706–S719. <http://doi.org/10.1016/j.resuscitation.2016.06.037> **Check with your local Library Service provider.**
- Dalle Ave, A. L., Shaw, D. M., & Gardiner, D. (2016). Extracorporeal membrane oxygenation (ECMO) assisted cardiopulmonary resuscitation or uncontrolled donation after the circulatory determination of death following out-of-hospital refractory cardiac arrest—An ethical analysis of an unresolved clinical dilem. *Resuscitation*. <http://doi.org/10.1016/j.resuscitation.2016.07.003> **Check with your local Library Service provider.**
- Fukuda, T., Ohashi-Fukuda, N., Matsubara, T., Gunshin, M., Kondo, Y., & Yahagi, N. (2016). Effect of prehospital epinephrine on out-of-hospital cardiac arrest: a report from the national out-of-hospital cardiac arrest data registry in Japan, 2011–2012. *European Journal of Clinical Pharmacology*. <http://doi.org/10.1007/s00228-016-2093-2> **Check with your local Library Service provider.**
- Hulleman, M., Mes, H., Blom, M. T., Koster, R. W., Keller, S. P., Halperin, H. R., ... Hedges, J. R. (2016). Conduction disorders in bradyasystolic out-of-hospital cardiac arrest. *Resuscitation*, 106, 113–119. <http://doi.org/10.1016/j.resuscitation.2016.06.033> **Check with your local Library Service provider.**
- Kisser, U., Braun, C., Huber, A., & Stelter, K. (2016). Bystander cricothyrotomy with ballpoint pen: a fresh cadaveric feasibility study. *Emergency Medicine Journal*, 33(8), 553–556. <http://doi.org/10.1136/emered-2015-205659> **NHS Open Athens@**
- Rigamonti, F., Gencer, B., Rey, F., Chaara, J., Tessitore, E., Bunwaree, S., ... Roffi, M. (2016). Pre-hospital alarm activation for STEMI patients undergoing primary percutaneous coronary intervention in the era of transradial procedures. *European Journal of Internal Medicine*. <http://doi.org/10.1016/j.ejim.2016.07.002> **Check with your local Library Service provider.**
- Youngquist, S. T., Ockerse, P., Hartsell, S., Stratford, C., & Taillac, P. (2016). Mechanical chest compression devices are associated with poor neurological survival in a statewide registry: A propensity score analysis. *Resuscitation*, 106, 102–107. <http://doi.org/10.1016/j.resuscitation.2016.06.039> **Check with your local Library Service provider.**
- Yuksen, C., Sawatmongkornkul, S., Tuangsirisup, J., Sawanyawisuth, K., & Sittichanbuncha, Y. (2016). The CPR outcomes of online medical video instruction versus on-scene medical instruction using *Prehospital Emergency Services Current Awareness Update – Issue 38, July 2016*

simulated cardiac arrest stations. *BMC Emergency Medicine*, 16(1), 25. <http://doi.org/10.1186/s12873-016-0092-3> **Open Access@**

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South East Ambulance Service	eMail: <a href="mailto:Holly.Case@sash.nhs.uk">Holly.Case@sash.nhs.uk</a>	Outreach Library Service; Membership of local NHS Library.
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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.*