



The aim of this Current Awareness Update is to provide a digest of information supporting evidence based practice in prehospital emergency services.

This is an edited version of the update for SWASFT staff

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Prehospital Emergency Services Current Awareness Update – Issue 29, October 2015

With thanks to Matt Holland, North West Ambulance Service Librarian (on behalf of the National Ambulance Research Steering Group).

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.

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

<u>Prehospital Practitioners – Professional Development</u>

<u>Prehospital Research – Methods and Discussion</u>

Diagnosis & Triage

Patient Profile

Helicopter Emergency Medical Services

On-Scene Interventions

Airway Management, Resuscitation & CPR

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Prehospital Practitioners - Roles, Professional Practice and Development

van Barneveld, T.C., Bhulai, S. & van der Mei, R.D., 2015. A dynamic ambulance management model for rural areas: Computing redeployment actions for relevant performance measures. *Health care management science*.

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Brydges, M. et al., 2015. A Culture in Transition: Paramedic Experiences with Community Referral Programs. *CJEM*, 17(6), pp.631–8.

Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Bulford, S., 2015. Nurses needed in new student network for pre-hospital care. *Nursing Standard*, 30(7), pp.30–1.

Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Casey, M.L. et al., 2015. Potential Exposure to Ebola Virus from Body Fluids due to Ambulance Compartment Permeability in Sierra Leone. *Prehospital and Disaster Medicine*, pp.1–3. Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Christie, G., 2015. Independent non-medical prescribing for paramedics. *Nursing Standard*, 29(51), pp.36–9

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Devenish, D.S. et al., 2015. Australian paramedic graduates transitioning into UK NHS ambulance services: what are the potential challenges? *Journal of Paramedic Practice*, 7(10), pp.492–498. Click here to access fulltext. SWASFT Athens account required (register here)

Furseth, P.A., Taylor, B. & Kim, S.C., 2015. Impact of Interprofessional Education Among Nursing and Paramedic Students. *Nurse Educator*.

Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Hickson, H., Williams, B. & O'Meara, P., 2015. Paramedicine students' perception of preparedness for clinical placement in Australia and New Zealand. *BMC Medical Education*, 15(1), p.168. Click here to access fulltext

Jones, R., 2015. Exploring trends in demand for urgent care. *Journal of Paramedic Practice*, 7(10), pp.486–488.

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Jouffroy, R. et al., 2015. Knowledge of "trusted person" and "advance directive" in end-of-life situations in prehospital emergency medicine 10 years after Leonetti's law publication. *European Journal of Emergency Medicine*, 22(6), p.445.

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Levy, M.J., 2015. Intentional mass casualty events: Implications for prehospital emergency medical services systems. *Bulletin of the American College of Surgeons*, 100(1 Suppl), pp.72–4.

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Loomba, R.S. et al., 2015. Increased return of spontaneous circulation at the expense of neurologic outcomes: Is prehospital epinephrine for out-of-hospital cardiac arrest really worth it? *Journal of Critical Care*.

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Magnusson, C. et al., 2015. Pre-hospital assessment by a single responder: The Swedish ambulance nurse in a new role: A pilot study. International emergency nursing.

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Mills, B.W. et al., 2015. Clinical Placement Before or After Simulated Learning Environments?: A Naturalistic Study of Clinical Skills Acquisition Among Early-Stage Paramedicine Students. *Simulation in Healthcare*, 10(5), pp.263–9.

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Moore, K., 2015. Understanding Trauma Systems and Trauma Centers. *Journal of Emergency Nursing*. Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Nakada, T.-A. et al., 2015a. Development of a prehospital vital signs chart sharing system. *American Journal of Emergency Medicine*.

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O'Shea, E., 2015. Ambulance response time in Ireland: the legal implications. *Journal of Paramedic Practice*, 7(10), pp.500–504.

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Pons, P.T. et al., 2015. The Hartford Consensus on Active Shooters: Implementing the Continuum of Prehospital Trauma Response. *Journal of Emergency Medicine*.

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Williams, B., Boyle, M. & Howard, S., 2015. Empathy levels in undergraduate paramedic students: A three-year longitudinal study. *Nurse Education in Practice*.

Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Zorab, O., Robinson, M. & Endacott, R., 2015. Are prehospital treatment or conveyance decisions affected by an ambulance crew's ability to access a patient's health information? *BMC Emergency Medicine*, 15(1), p.26.

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Prehospital Research – Methods and Discussion

Hartshorn, S. et al., 2015. Establishing the research priorities of paediatric emergency medicine clinicians in the UK and Ireland. *Emergency Medicine Journal*, 32(11), pp.864–8.

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Smith, J.E. & Morley, R., 2015. The emergency medicine research priority setting partnership. *Emergency Medicine Journal*, 32(11), pp.830–830.

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Stratton, S.J., 2015. Field Reports: Can They Add to the Prehospital and Disaster Knowledge Base? *Prehospital and Disaster Medicine*, 30(5), p.437.

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Diagnosis and Triage

Baldi, E. et al., 2015. When an old pace-maker misleads a new automated external defibrillator. A case from the Pavia CARe (Cardiac Arrest Registry). *Resuscitation*.

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Berthelot, S. et al., 2015. Development of a Hospital Standardized Mortality Ratio for Emergency Department Care. *Annals of Emergency Medicine*.

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Björkman, J. et al., 2015. Epidemiology and aetiology of impaired level of consciousness in prehospital nontrauma patients in an urban setting. *European Journal of Emergency Medicine*, p.1. Click here to access fulltext. SWASFT Athens account required (register here)

Dami, F., Golay, C., et al., 2015. Prehospital triage accuracy in a criteria based dispatch centre. *BMC Emergency Medicine*, 15(1), p.32.

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Morgan, C. & Body, R., 2015. BET 1: is long-term Rivaroxaban superior to Warfarin in pulmonary embolism? *Emergency Medicine Journal*, 32(11), pp.895–8.

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Nilsson, A. et al., 2015. Improved and sustained triage skills in firemen after a short training intervention. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 23(1), p.81. Click here to access fulltext.

Winkler, M.S. et al., 2015. Decreased serum concentrations of sphingosine-1-phosphate in sepsis. *Critical Care*, 19(1), p.372.

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Yong, E. et al., 2015. Pre-hospital pelvic girdle injury: Improving diagnostic accuracy in a physician-led trauma service. *Injury*.

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Zohrevandi, B. et al., 2015. Diagnostic Accuracy of Cincinnati Pre-Hospital Stroke Scale. *Emergency*, 3(3), pp.95–8.

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Patient Profile

Betz, M.E. & Boudreaux, E.D., 2015. Managing Suicidal Patients in the Emergency Department. *Annals of Emergency Medicine*.

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Downey, L.V.A. & Zun, L.S., 2015. Reasons for readmissions: what are the reasons for 90-day readmissions of psychiatric patients from the ED? *American Journal of Emergency Medicine*, 33(10), pp.1489–91. Click here to access fulltext. SWASFT Athens account required (register here) — select login and then OpenAthens login.

Doran, K.M., 2015. Homelessness and ED use: myths and facts. *American Journal of Emergency Medicine*. Click <u>here</u> to access fulltext. SWASFT Athens account required (register <u>here</u>) – select login and then OpenAthens login.

Lilja, G. et al., 2015. Anxiety and depression among out-of-hospital cardiac arrest survivors. *Resuscitation*, 97, pp.68–75.

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Mendes, A., 2015. Equal value of physical and mental health: transforming outcomes by 2021. *Journal of Paramedic Practice*, 7(10), pp.484–485.

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Nishikawa, T. et al., 2015. Effects of a Public Education Campaign on the Association Between Knowledge of Early Stroke Symptoms and Intention to Call an Ambulance at Stroke Onset: The Acquisition of Stroke Knowledge (ASK) Study. *Journal of epidemiology*.

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Seppelt, I.M., 2015. Who Should Perform Critical Procedures on Children Prehospital, and How Often? *Pediatric Critical Care Medicine*, 16(8), pp.785–6.

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Helicopter Emergency Medical Services

Brown, J.B. et al., 2015. Development and Validation of the Air Medical Prehospital Triage Score for Helicopter Transport of Trauma Patients. *Annals of Surgery*.

Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Peters, J. et al., 2015. Prehospital thoracostomy in patients with traumatic circulatory arrest: results from a physician-staffed Helicopter Emergency Medical Service. *European Journal of Emergency Medicine*. Click here to access fulltext. SWASFT Athens account required (register here)

On-Scene Interventions

SWASFT Authors Walker, R. & Black, S., 2015. Single-dose activated charcoal-a feasibility study in an ambulance setting. *Journal of Paramedic Practice*, 7(10), pp.506–509.

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Garner, A.A. et al., 2015. The Head Injury Retrieval Trial (HIRT): a single-centre randomised controlled trial of physician prehospital management of severe blunt head injury compared with management by paramedics only. Emergency Medicine Journal, 32(11), pp.869–75.

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Henriksen, D.P. et al., 2015. Time to initial antibiotic administration, and short-term mortality among patients admitted with community-acquired severe infections with and without the presence of systemic inflammatory response syndrome: a follow-up study. *Emergency Medicine Journal*, 32(11), pp.846–53.

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Martin, A.J., Lohse, C.M. & Sztajnkrycer, M.D., 2015. A Descriptive Analysis of Prehospital Response to Hazardous Materials Events. *Prehospital and Disaster Medicine*, 30(5), pp.466–71.

Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Ono, Y. et al., 2015. Should laryngeal tubes or masks be used for out-of-hospital cardiac arrest patients? *American Journal of Emergency Medicine*, 33(10), pp.1360–3. Available at:

Click <u>here</u> to access fulltext. SWASFT Athens account required (register <u>here</u>) – select login and then OpenAthens login.

Shaw, J., Taylor, B. & Thies, K., 2015. PREHOSPITAL HYPOTHERMIA IS ASSOCIATED WITH INCREASED MORTALITY. *Intensive Care Medicine Experimental*, 3(Suppl 1), p.A374.

Click here to access fulltext

Tabaka, M.E. et al., 2015. Predictors of infection from dog bite wounds: which patients may benefit from prophylactic antibiotics? *Emergency Medicine Journal*, 32(11), pp.860–863.

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Tataris, K.L., Mercer, M.P. & Govindarajan, P., 2015. Prehospital aspirin administration for acute coronary syndrome (ACS) in the USA: an EMS quality assessment using the NEMSIS 2011 database. *Emergency Medicine*

Journal, 32(11), pp.876-81.

Click here to access fulltext. SWASFT Athens account required (register here)

Toner, P., McAuley, D.F. & Shyamsundar, M., 2015. Aspirin as a potential treatment in sepsis or acute respiratory distress syndrome. *Critical Care*, 19(1), p.374.

Click here to access fulltext.

Airway Management, Resuscitation & CPR

Besnier, E. et al., 2015. Dispatcher-assisted cardiopulmonary resuscitation protocol improves diagnosis and resuscitation recommendations for out-of-hospital cardiac arrest. *Emergency Medicine Australasia*. Click here to access fulltext

Bossers, S.M. et al., 2015. Experience in Prehospital Endotracheal Intubation Significantly Influences Mortality of Patients with Severe Traumatic Brain Injury: A Systematic Review and Meta-Analysis. *PloS One*, 10(10), p.e0141034.

Click here to access fulltext

Brusasco, C. et al., 2015. CPAP Devices for Emergency Prehospital Use: A Bench Study. *Respiratory Care*. Click here to access abstract, email history.mailbox@nhs.net to request fulltext

Caruana, E. et al., 2015. Tracheal intubation related complications in the prehospital setting. *Emergency Medicine Journal*, 32(11), pp.882–7.

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Cierniak, M. et al., 2015. Analysis of the incidence of postintubation injuries in patients intubated in the prehospital or early hospital conditions of the hospital emergency department and the intensive care unit. *Therapeutics and Clinical Risk Management*, 11, pp.1489–96.

Click here to access fulltext

Dami, F., Heymann, E., et al., 2015. Time to identify cardiac arrest and provide dispatch-assisted cardio-pulmonary resuscitation in a criteria-based dispatch system. *Resuscitation*, 97, pp.27–33. Click here to access fulltext. SWASFT Athens account required (register here) – select login and then OpenAthens login.

Donnino, M.W. et al., 2015. Temperature Management After Cardiac Arrest. An Advisory Statement by the Advanced Life Support Task Force of the International Liaison Committee on Resuscitation and the American Heart Association Emergency Cardiovascular Care Committee and the Council. *Resuscitation*. Click here to access fulltext.

Douma, M.J. & Smith, K.E., 2015. Advanced Google life support: Leveraging search results to improve bystander out-of-hospital cardiac arrest response. *Resuscitation*.

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Ecker, H. et al., 2015. Long-term learning effect is essential Letter to the editor on "Peer education for BLS-training in schools? Results of a randomized-controlled, noninferiority trial. (Resuscitation 2015:94:85-90)". *Resuscitation*.

Click here to access fulltext.

Ewings, R., 2015. Limitations of care and do not resuscitate orders: A patients/relatives perspective. *Resuscitation*.

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Fournier, N. et al., 2015. Motion analysis of cardiopulmonary resuscitation. *American Journal of Emergency Medicine*, 33(10), pp.1350–3.

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Kang, K. et al., 2015. Prehospital endotracheal intubation and survival after out-of-hospital cardiac arrest: results from the Korean nationwide registry. *American Journal of Emergency Medicine*.

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Khosravan, S. et al., Comparing the effectiveness of airway management devices in pre-hospital emergency care: A randomized clinical trial. *Pakistan Journal of Medical Sciences*, 31(4), pp.946–9. Click here to access fulltext

Kudenchuk, P.J., 2015. PCI after out-of-hospital cardiac arrest: Does who, what or when matter? *Resuscitation*.

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Kudenchuk, P.J. et al., 2015. Treatment and outcome of out-of-hospital cardiac arrest in outpatient health care facilities. *Resuscitation*, 97, pp.97–102.

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Miller, A.C. et al., 2014. A systematic review and pooled analysis of CPR-associated cardiovascular and thoracic injuries. *Resuscitation*, 85(6), pp.724–31.

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Nishi, T. et al., 2015. Are regional variations in activity of dispatcher-assisted cardiopulmonary resuscitation associated with out-of-hospital cardiac arrests outcomes? A nation-wide population-based cohort study. *Resuscitation*.

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Okuda, T., Takanari, H. & Shiotani, S., 2015. A systematic review and pooled analysis of CPR-associated cardiovascular and thoracic injuries. *Resuscitation*.

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Sasson, C. & Haukoos, J.S., 2015. Is Prehospital Advanced Life Support Harmful? *Annals of Internal Medicine*.

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Smith, J.E., Le Clerc, S. & Hunt, P.A.F., 2015. Challenging the dogma of traumatic cardiac arrest management: a military perspective. *Emergency Medicine Journal*, pp.emermed–2015–204684–. Click here to access fulltext. SWASFT Athens account required (register here)

Steuerwald, M.T. et al., 2015. Prehospital airway technique does not influence incidence of ventilator-associated pneumonia in trauma patients. *Journal of Trauma and Acute Care Surgery*. Click here to access fulltext. SWASFT Athens account required (register here)

Wallmüller, C. et al., 2015. Limited effect of mild therapeutic hypothermia on outcome after prolonged resuscitation. *Resuscitation*.

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