



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 31, December 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

Bergen-Cico, D. et al., 2015. The impact of post-traumatic stress on first responders: analysis of cortisol, anxiety, depression, sleep impairment and pain. *International Paramedic Practice*. Click <a href="mailto:here">here</a> to access abstract, email <a href="mailto:library.mailbox@nhs.net">library.mailbox@nhs.net</a> to request fulltext.

Boyle, M.J., Williams, B. & Ross, L., 2015. Assessing student paramedic visual and verbal checks for defibrillation safety-an observational study. *SpringerPlus*, 4, p.773.

Click <a href="here">here</a> to access fulltext/abstract

Brooks, I.A. et al., 2015. A review of key national reports to describe the development of paramedic education in England (1966-2014). *Emergency Medicine Journal : EMJ*.

Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Buis, M.L. et al., 2015. Defining the learning curve for endotracheal intubation using direct laryngoscopy: a systematic review. *Resuscitation*.

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Cabrera, D. et al., 2015. Accuracy of "My Gut Feeling:" Comparing System 1 to System 2 Decision-Making for Acuity Prediction, Disposition and Diagnosis in an Academic Emergency Department. *The Western Journal of Emergency Medicine*, 16(5), pp.653–7.

Click <a href="here">here</a> to access fulltext/abstract

Chen, Y.-Q. et al., 2015. Impact of subtropical climate on frequency of ambulance use for trauma patients in a coastal area of China. *Chinese Journal of Traumatology = Zhonghua chuang shang za zhi / Chinese Medical Association*, 18(3), pp.141–6.

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Christopher, S., 2015. An introduction to black humour as a coping mechanism for student paramedics. *Journal of Paramedic Practice*, 7(12), pp.610–617.

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Clompus, S.R. & Albarran, J.W., 2015. Exploring the nature of resilience in paramedic practice: A psycho-social study. *International Emergency Nursing*.

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

Devenish, S. et al., 2015. Australian paramedic graduates transitioning into UK NHS ambulance services: what are the potential challenges? *International Paramedic Practice*, 5(3), pp.61–67. Click <a href="mailto:here">here</a> to access abstract, email <a href="mailto:library.mailbox@nhs.net">library.mailbox@nhs.net</a> to request fulltext.

Flanigan, M. et al., 2015. Teaching and Assessing ED Handoffs: A Qualitative Study Exploring Resident, Attending, and Nurse Perceptions. *The Western Journal of Emergency Medicine*, 16(6), pp.823–9.

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Gigon, F., Merlani, P. & Ricou, B., 2015. Advance Directives and Communication Skills of Prehospital Physicians Involved in the Care of Cardiovascular Patients.

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

Ginchereau, E., 2015. The American Ambulance in Paris, 1914-1917 Part I: The Creation of the American Ambulance. *Military Medicine*, 180(12), pp.1201–2.

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Golden, A.P. & Odoi, A., 2015. Emergency medical services transport delays for suspected stroke and myocardial infarction patients. *BMC Emergency Medicine*, 15(1), p.34.

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Govender, K. et al., 2015. Comparison of two training programmes on paramedic-delivered CPR performance. *Emergency Medicine Journal: EMJ*.

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Hargarten, S., 2015. Reflection on a Mass Shooting. *Academic Emergency Medicine*. Click <u>here</u> to access fulltext/abstract (free as of 06/01/2016)

Ho, A.F.W. et al., 2015. Prehospital system delay in patients with ST-segment elevation myocardial infarction in Singapore. *World Journal of Emergency Medicine*, 6(4), pp.277–82. Click here to access fulltext/abstract

Kao, C.-Y., Yang, J.-C. & Lin, C.-H., 2015. The Impact of Ambulance and Patient Diversion on Crowdedness of Multiple Emergency Departments in a Region. *PloS one*, 10(12), p.e0144227. Click <a href="here">here</a> to access fulltext/abstract

Knox, S., Cullen, W. & Dunne, C.P., 2015. A national study of Continuous Professional Competence (CPC) amongst pre-hospital practitioners. *BMC Health Services research*, 15(1), p.532. Click <a href="here">here</a> to access fulltext/abstract

Lui, T.-W., Fan, K.-L. & Leung, L.-P., 2015. Performance of a prehospital trauma diversion system in Hong Kong, China. *Chinese Journal of Traumatology = Zhonghua chuang shang za zhi / Chinese Medical Association*, 18(3), pp.137–40.

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Martin, A., O'Meara, P. & Farmer, J., 2015. Consumer perspectives of a community paramedicine program in rural Ontario. *The Australian Journal of Rural Health*. Click <a href="https://example.com/here-to-access-fulltext/abstract">here-to-access-fulltext/abstract</a> (free as of 06/01/2016)

Murphy, J.F.A., 2015. Assaults on Medical, Nursing and Paramedical Staff. *Irish Medical Journal*, 108(9), p.260.

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Nilsson, T. & Lindström, V., 2015. Clinical decision-making described by Swedish prehospital emergency care nurse students - An exploratory study. *International Emergency Nursing*. Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

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Pyper, Z. & Paterson, J.L., 2015. Fatigue and mental health in Australian rural and regional ambulance personnel. *Emergency medicine Australasia: EMA*.

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Quaile, A., 2015. Professionalism in the face of terror. *Journal of Paramedic Practice*, 7(12), p.591. Click <a href="here">here</a> to access fulltext- SWASFT Athens required (register <a href="here">here</a>). Click <a href="here">here</a> to access free abstract

Sherbino, J., 2015. Education Scholarship and its Impact on Emergency Medicine Education. *Western Journal of Emergency Medicine*, 16(6), pp.804–9.

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Tavares, W. & Boet, S., 2015. On the Assessment of Paramedic Competence: A Narrative Review with Practice Implications. *Prehospital and disaster medicine*, pp.1–10.

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

Taylor, A. et al., 2015. Using ambulance data to reduce community violence: critical literature review. *European Journal of Emergency Medicine*.

Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Williams, D.M., 2015. Obstacles to emergency medical services system design and operational features. *International Paramedic Practice*.

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

Zia, N. et al., 2015. Ambulance use in Pakistan: an analysis of surveillance data from emergency departments in Pakistan. *BMC Emergency Medicine*, 15 Suppl 2, p.S9.

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#### Prehospital Research - Methods and Discussion

Kim, D.-H. et al., 2016. Enrollment Yield and Reasons for Screen Failure in a Large Prehospital Stroke Trial. *Stroke*. (1), pp.232–5.

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

O'Meara, P. et al., 2015. Building an Australasian paramedicine research agenda: a narrative review. *Health research policy and systems / BioMed Central*, 13(1), p.79.

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#### **Diagnosis and Triage**

Anon, 2015. Prehospital External Hemorrhage Control. *Pediatrics*, 136(6), p.e1678. Click <u>here</u> to access fulltext/abstract (free online as of 06/01/2016)

Bozkurt, S. et al., 2015. Validity of modified early warning, Glasgow Blatchford, and pre-endoscopic Rockall scores in predicting prognosis of patients presenting to emergency department with upper gastrointestinal bleeding. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 23(1), p.109.

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Campo Dell' Orto, M. et al., 2015. Telemetry-assisted early detection of STEMI in patients with atypical symptoms by paramedic-performed 12-lead ECG with subsequent cardiological analysis. *European Journal of Emergency Medicine*.

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Ebinger, M. & Audebert, H.J., 2015. Switched On-Expert Advice in Prehospital Thrombolysis via Telemedicine. *JAMA Neurology*, pp.1–2.

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Martindale, J.L. et al., 2015. Diagnosing Acute Heart Failure in the Emergency Department A Systematic Review and Meta-Analysis C. R. Carpenter, ed. *Academic Emergency Medicine*, Click here to access fulltext/abstract (free online as of 06/01/2016)

Meskere, Y., Dinberu, M.T. & Azazh, A., 2015. Patterns and determinants of pre-hospital care among trauma patients treated in tikur anbessa specialized hospital, emergency department. *Ethiopian Medical Journal*, 53(3), pp.141–9.

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

Plesner, L.L. et al., 2015. The formation and design of the TRIAGE study--baseline data on 6005 consecutive patients admitted to hospital from the emergency department. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 23(1), p.106.

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Wheeler, D.S., 2015. Is the "golden age" of the "golden hour" in sepsis over? *Critical care (London, England)*, 19(1), p.447.

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#### **Patient Profile**

Blom, M.C. et al., 2015. The probability of readmission within 30 days of hospital discharge is positively associated with inpatient bed occupancy at discharge - a retrospective cohort study. *BMC emergency medicine*, 15(1), p.37.

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Buswell, M. et al., 2016. Unplanned, urgent and emergency care: what are the roles that EMS plays in providing for older people with dementia? An integrative review of policy, professional recommendations and evidence. *Emergency Medicine Journal : EMJ*, 33(1), pp.61–70. Click <a href="here">here</a> to access fulltext. SWASFT Athens account required (register <a href="here">here</a>). Click <a href="here">here</a> to access fulltext.

Lee, S.Y. et al., 2015. Interaction effects between highly-educated neighborhoods and dispatcher-provided instructions on provision of bystander cardiopulmonary resuscitation. *Resuscitation*. Click <a href="here">here</a> to access fulltext- SWASFT Athens required (register <a href="here">here</a>). Click <a href="here">here</a> to access free abstract

Suffoletto, B. et al., 2016. Predicting older adults who return to the hospital or die within 30 days of emergency department care using the ISAR tool: subjective versus objective risk factors. *Emergency Medicine Journal* 33(1), pp.4–9.

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#### **Helicopter Emergency Medical Services**

Steele, S., Adcock, C. & Steel, A., 2016. Ethical, legal and professional issues arising from social media coverage by UK Helicopter Emergency Medical Services. *Emergency Medicine Journal*. 33(1), pp.57–60.

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#### **On-Scene Interventions**

\*\*SWASFT Author\*\* Sharp, A., 2015. Pre-hospital treatment of supraventricular tachycardia: a literature review. *Journal of Paramedic Practice*, 7(12), pp.618–628.

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Itrat, A. et al., 2015. Telemedicine in Prehospital Stroke Evaluation and Thrombolysis: Taking Stroke Treatment to the Doorstep. *JAMA Neurology*, pp.1–7.

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Pryce, R. & McDonald, N., 2015. Prehospital Spinal Immobilization: Effect of Effort on Kinematics of Voluntary Head-neck Motion Assessed using Accelerometry. *Prehospital and disaster medicine*, pp.1–7.

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Zhang, X.W. et al., 2015. The effect of mild induced hypothermia on outcomes of patients after cardiac arrest: a systematic review and meta-analysis of randomised controlled trials. *Critical care (London, England)*, 19(1), p.417.

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#### Airway Management, Resuscitation & CPR

Choi, D.S. et al., 2015. Extracorporeal life support and survival after out-of-hospital cardiac arrest in a nationwide registry: A propensity score-matched analysis. *Resuscitation*, 99, pp.26–32.

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Clayton, B., 2015. Diagnosis deserves greater emphasis in resuscitation practice, research and guidance. *Resuscitation*.

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Dankiewicz, J. et al., 2015. Time to start of cardiopulmonary resuscitation and the effect of target temperature management at 33°C and 36°C. *Resuscitation*, 99, pp.44–49.

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DeLia, D. et al., 2015. Prehospital transportation to therapeutic hypothermia centers and survival from out-of-hospital cardiac arrest. *BMC Health Services Research*, 15(1), p.533.

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He, M. et al., 2015. Combining multiple ECG features does not improve prediction of defibrillation outcome compared to single features in a large population of out-of-hospital cardiac arrests. *Critical care (London, England)*, 19(1), p.425.

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Mak, M. et al., 2015. Measuring outcome after cardiac arrest: construct validity of Cerebral Performance Category. *Resuscitation*.

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Mangi, A.M. et al., 2015. Pre-hospital use of inhaled corticosteroids and inhaled beta agonists and incidence of ARDS: A population-based study. *Acta Medica Academica*, 44(2), pp.109–16. Click <a href="https://example.com/here">here</a> to access fulltext/abstract (free online as of 06/01/2016)

McClung, C.D. & Anshus, A.J., 2015. Interposed Abdominal Compression CPR for an Out-of-Hospital Cardiac Arrest Victim Failing Traditional CPR. *Western Journal of Emergency Medicine*, 16(5), pp.690–2.

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- Medical pharmacology at a glance. (Neal) 8<sup>th</sup> ed, 2016 (9781118902400)
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- Emergency Medicine Secrets. (Markovchick )6th ed, 2016 (9780323355162)

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