



### Prehospital Emergency Services Current Awareness Update Issue 36, May 2016

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 36, May 2016

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>

**Prehospital Research – Methods and Discussion** 

**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

Abelsson, A. et al., 2016. Learning by simulation in prehospital emergency care - an integrative literature review. *Scandinavian Journal of Caring Sciences*, 30(2), pp.234–240.

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

Batt, A.M. et al., 2016. Do Paramedics Have a Role to Play in Organ Donation? *Transplantation*. Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Campeau, A.G., 2016. Paramedical risk framing during field referral of acute stroke and S–T elevation myocardial infarction patients. *Emergency Medicine Journal*, 33(6), pp.414–417 Click <a href="https://example.com/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

Davids, N.B., Shaping the Flight Paramedic Program. *U.S. Army Medical Department journal*, (2-16), pp.48–51.

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Elliot, A.J. et al., 2016. Monitoring the effect of air pollution episodes on health care consultations and ambulance call-outs in England during March/April 2014: A retrospective observational analysis. *Environmental pollution (Barking, Essex : 1987)*, 214, pp.903–11.

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Jagtenberg, C.J., Bhulai, S. & van der Mei, R.D., 2016. Dynamic ambulance dispatching: is the closest-idle policy always optimal? *Health care management science*.

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

Mechem, C.C. et al., 2016. Prehospital Medical Planning for the 2015 Philadelphia Papal Visit. Prehospital emergency care: official journal of the National Association of EMS Physicians and the National Association of State EMS Directors, pp.1–10.

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

Morales, L. et al., 2016. Patient acuity as a determinant of paramedics' frequency of being exposed to physically demanding work activities. *Applied ergonomics*, 56, pp.187–93.

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.

Peate, I., 2016. Approving educational programmes for paramedics. *Journal of Paramedic Practice*, 8(6), pp.278–279.

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Ray, J.G. et al., 2016. On-Premise Alcohol Establishments and Ambulance Calls for Trauma, Assault, and Intoxication. *Medicine*, 95(19), p.e3669.

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Rees, N. et al., 2016. How do emergency ambulance paramedics view the care they provide to people who self harm?: Ways and means. *International journal of law and psychiatry*. Click here to access abstract, email <a href="mailto:library.mailbox@nhs.net">library.mailbox@nhs.net</a> to request fulltext.

Rouse, J., 2016. What do ambulance service personnel perceive to be the process of and issues with inter-hospital transfers? *Journal of Paramedic Practice*, 8(6), pp.294–301.

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Shakeri, N., 2016. Effectiveness of Some Educational Methods and Tools on Improving the Level of Understanding of Biostatistics among Medical Students and Paramedical Postgraduate Students. *Global journal of health science*, 8(11), p.54068.

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Talbot, J., 2016. Critical care paramedics: who's doing what? *Journal of Paramedic Practice*, 8(6), pp.312–312.

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Thomas, A., 2016. Trauma Care Conference considers expanding role of paramedics in subspecialty. *Journal of Paramedic Practice*, 8(6), pp.280–281.

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#### Prehospital Research – Methods and Discussion

Biros, M., 2016. Never, always and maybe. Addressing attitudes of patients towards emergency medicine research. *Emergency Medicine Journal*, 33(6), pp.374–375.

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Buckley, J.M., Irving, A.D. & Goodacre, S., 2016. How do patients feel about taking part in clinical trials in emergency care?: Table 1. *Emergency Medicine Journal*, 33(6), pp.376–380.

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Naumann, D.N. et al., 2016. The term "prehospital" must be justified when reporting animal studies of traumatic hemorrhagic shock. *The journal of trauma and acute care surgery*.

#### **Diagnosis and Triage**

Barrett, K.M. et al., 2016. Ambulance-based assessment of NIH Stroke Scale with telemedicine: A feasibility pilot study. *Journal of telemedicine and telecare*.

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

Battle, C.E. et al., 2016. Management of the anticoagulated trauma patient in the emergency department: a survey of current practice in England and Wales. *Emergency Medicine Journal*, 33(6), pp.403–407. 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

Campbell, B., Stirling, C. & Cummings, E., 2016. Continuity matters: Examining the "information gap" in transfer from Residential Aged Care, ambulance to emergency triage in southern Tasmania. *International Emergency Nursing*.

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

Cannell, M.B. et al., 2016. Towards the development of a screening tool to enhance the detection of elder abuse and neglect by emergency medical technicians (EMTs): a qualitative study. *BMC Emergency Medicine*, 16(1), p.19.

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Damlapinar, R. et al., 2016. Lactate Level Is More Significant Than Carboxihemoglobin Level in Determining Prognosis of Carbon Monoxide Intoxication of Childhood. *Pediatric Emergency Care*, 32(6), pp.377–383.

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Fathi, M. et al., 2015. Risk factors of delayed pre-hospital treatment seeking in patients with acute coronary syndrome: A prospective study. *Turkish journal of emergency medicine*, 15(4), pp.163–7. Click here to access fulltext (free online as of 20/06/2016)

Gioia, L.C. et al., 2016. Prehospital systolic blood pressure is higher in acute stroke compared with stroke mimics. *Neurology*, 86(23), pp.2146–53.

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

Gubbins, K., 2016. The hanging/hanged patient and relevance to pre-hospital care. *Journal of Paramedic Practice*, 8(6), pp.290–293.

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Häske, D. et al., 2016. Comparison of the Pre-hospital Trauma Life Support (PHTLS) Recommendations and the German National Guideline on Treatment of Patients with Severe and Multiple Injuries. *The journal of trauma and acute care surgery*.

Kurz, M.C. et al., 2016. Computed tomography of the brain following out of hospital cardiac arrest: Neuro-prognostication or phrenology? *Resuscitation*, 104, pp.A3–A4.

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Lane, D. et al., 2016. Prehospital management and identification of sepsis by emergency medical services: a systematic review. *Emergency Medicine Journal*, 33(6), pp.408–413.

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Nehme, Z. et al., 2016. Effect of diabetes and pre-hospital blood glucose level on survival and recovery after out-of-hospital cardiac arrest. *Critical care and resuscitation : journal of the Australasian Academy of Critical Care Medicine*, 18(2), p.77.

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Skopek, M.A. & Francis, J.L., 2016. Presentations by ambulance under the NSW Mental Health Act to an emergency department with a 24-hour mental health team. *Australasian psychiatry : bulletin of Royal Australian and New Zealand College of Psychiatrists*.

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

Tasmin, S. et al., 2016. Short-term exposure to ambient particulate matter and emergency ambulance dispatch for acute illness in Japan. *The Science of the total environment*, 566-567, pp.528–535.

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

#### **Patient Profile**

Hamilton, P.K. et al., 2016. Emergency medical admissions at weekends are older and more functionally dependent than those admitted on weekdays: Table 1. *Emergency Medicine Journal*, 33(6), pp.444–444.

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

Hayward, M.D. et al., 2016. Review of therapeutic agents employed by an Australian aeromedical prehospital and retrieval service. *Emergency medicine Australasia*: *EMA*, 28(3), pp.329–34. 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.

McCormack, J. et al., 2016. HEMS advanced trauma team retrieval of a patient with accidental hypothermic cardiac arrest for ECMO therapy. *Resuscitation*, 0(0), pp.320–324.

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

#### NIHR Publish Themed Review of Care at the Scene

NHS NIHR Dissemination Centre. 2016. *Themed Review. Care at the Scene. Research for Ambulance Services.* London: NIHR. Available from:

http://www.dc.nihr.ac.uk/ data/assets/pdf file/0004/164461/Care-at-the-scene-final-for-web.pdf

Hooper, C., 2016. Clinical care in the warm zone: a responder's perspective upon clinical practice in support of UK tactical medical operations. *Journal of Paramedic Practice*, 8(6), pp.282–288. 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

Irisawa, T. et al., 2016. Duration of Coma in Out-of-Hospital Cardiac Arrest Survivors Treated with Targeted Temperature Management. *Annals of Emergency Medicine*.

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Kawakami, S. et al., 2016. Time to Reperfusion in ST-Segment Elevation Myocardial Infarction Patients With vs. Without Pre-Hospital Mobile Telemedicine 12-Lead Electrocardiogram Transmission. *Circulation journal : official journal of the Japanese Circulation Society*. Click <a href="https://example.com/here-to-access-fulltext">here</a> to access fulltext (free online as of 20/06/2016)

Kobayashi, A., Misumida, N. & Kanei, Y., 2016. The association between prehospital transportation and clinical outcomes in patients with non-ST-segment elevation myocardial infarction. *The American journal of emergency medicine*.

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Kreinest, M. et al., 2016. Analysis of prehospital care and emergency room treatment of patients with acute traumatic spinal cord injury: a retrospective cohort study on the implementation of current guidelines. *Spinal cord*.

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

Kreinest, M. et al., 2016. Expertise of German paramedics concerning the prehospital treatment of patients with spinal trauma. *European journal of trauma and emergency surgery : official publication of the European Trauma Society*.

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

Nilsson, G. et al., 2016. Pre-hospital delay in patients with first time myocardial infarction: an observational study in a northern Swedish population. *BMC cardiovascular disorders*, 16(1), p.93. Click here to access fulltext (free online as of 20/06/2016)

Richardson, M. et al., 2016. *Capnography for Monitoring End-Tidal CO2 in Hospital and Pre-hospital Settings: A Health Technology Assessment*, Canadian Agency for Drugs and Technologies in Health. Click <a href="https://example.com/here-to-access-fulltext">here to access fulltext</a> (free online as of 20/06/2016)

Rakowski, T. et al., 2016. Prehospital Clopidogrel Administration in Patients With ST-Segment Elevation Myocardial Infarction Treated With Primary PCI: Real-Life Experience From the Multicenter NRDES Registry. *The Journal of invasive cardiology*, 28(6), pp.E56–8.

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Skolarus, L.E. et al., 2016. Stroke Ready Intervention: Community Engagement to Decrease Prehospital Delay. *Journal of the American Heart Association*, 5(5).

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Thiels, C.A. et al., 2016. Prehospital Blood Transfusions in Non-Trauma Patients. *World journal of surgery*.

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

Wafaisade, A. et al., 2016. Prehospital administration of tranexamic acid in trauma patients. *Critical Care*, 20(1), p.143.

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Zasa, M. et al., 2016. A torso model comparison of temperature preservation devices for use in the prehospital environment. *Emergency Medicine Journal*, 33(6), pp.418–422.

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#### Airway Management, Resuscitation & CPR

Cartledge, S. et al., 2016. A systematic review of basic life support training targeted to family members of high-risk cardiac patients. *Resuscitation*, 105, pp.70–78.

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Chang, I. et al., 2016. Therapeutic hypothermia and outcomes in paediatric out-of-hospital cardiac arrest: A nationwide observational study. *Resuscitation*, 105, pp.8–15.

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Debaty, G. et al., 2016. Reperfusion injury protection during Basic Life Support improves circulation and survival outcomes in a porcine model of prolonged cardiac arrest. *Resuscitation*, 105, pp.29–35. 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

Hansen, M. et al., 2016. Pediatric Airway Management and Prehospital Patient Safety: Results of a National Delphi Survey by the Children's Safety Initiative-Emergency Medical Services for Children. *Pediatric emergency care*.

Hardy, G. & Horner, D., 2016. BET 2: Should real resuscitationists use airway checklists?: Table 2. *Emergency Medicine Journal*, 33(6), pp.439–441.

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Kwok, H. et al., 2016. An accurate method for real-time chest compression detection from the impedance signal. *Resuscitation*, 105, pp.22–28.

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Lederman, Z. et al., 2016. Family presence during cardiopulmonary resuscitation: Evidence-based guidelines? *Resuscitation*, 0(0), pp.981–987.

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Nevins, M., 2016. What are family member experiences of the resuscitation of a relative? *Journal of Paramedic Practice*, 8(6), pp.302–310.

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Ørbo, M. et al., 2016. Alterations in cognitive outcome between 3 and 12 months in survivors of out-of-hospital cardiac arrest. *Resuscitation*, 105, pp.92–99.

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Piegeler, T. et al., 2016. Advanced airway management in an anaesthesiologist-staffed Helicopter Emergency Medical Service (HEMS): A retrospective analysis of 1047 out-of-hospital intubations. *Resuscitation*, 105, pp.66–69.

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Rajan, S. et al., 2016. Prolonged cardiopulmonary resuscitation and outcomes after out-of-hospital cardiac arrest. *Resuscitation*, 105, pp.45–51.

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Rehn, M. et al., 2016. Scandinavian SSAI clinical practice guideline on pre-hospital airway management. *Acta anaesthesiologica Scandinavica*.

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Schmidt, A. et al., 2016. A call for the proper action on drowning resuscitation. *Resuscitation*, 0(0), pp.S414–S435.

Takei, Y. et al., 2016. Recruitments of trained citizen volunteering for conventional cardiopulmonary resuscitation are necessary to improve the outcome after out-of-hospital cardiac arrests in remote time-distance area: A nationwide population-based study. *Resuscitation*, 105, pp.100–108. 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

Vahedian-Azimi, A. et al., 2016. Effect of the Cardio First Angel<sup>TM</sup> device on CPR indices: a randomized controlled clinical trial. *Critical Care*, 20(1), p.147. Click <u>here</u> to access fulltext (free online as of 20/06/2016)

#### New Ebooks and other resources

- Holbery, N. (2016). Emergency nursing at a glance. Chichester: John Wiley and Sons.
- Campo, T. M. . (2016). <u>Essential procedures for emergency, urgent, and primary care settings : a clinical companion</u>. 2nd ed. Springer.
- Baid, H. (2016) Oxford Handbook of Critical Care Nursing, 2nd ed. OUP.
- Phipps, O. (2016). Rapid emergency and unscheduled care. John Wiley and Sons.
- Ward, J. P. T. (2015) The respiratory system at a glance. 4th ed. John Wiley and Sons.
- Gillman, L. M. . (2016). <u>Trauma team dynamics : a trauma crisis resource management manual</u>. Springer.
- Peate, I. (2015). Wound care at a glance. John Wiley and Sons
- Busse, B. . (2016). Wound management in urgent care. Springer.

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