



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 30, November 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** 

**New ebooks** 

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#### Prehospital Practitioners – Roles, Professional Practice and Development

\*\*SWASFT Author\*\* Sanders-Page, A., 2015. RCEM conference places health and wellbeing of clinicians at heart of sessions. *Journal of Paramedic Practice*, 7(11), pp.544–546. Click here to access fulltext. SWASFT Athens account required (register here)

\*\* Plymouth University\*\* Nichols, A. & Allum, P., 2015. Emergency medical services (EMS) and waste: a review of the literature on sustainable EMS waste management. *Journal of Paramedic Practice*, 7(11), pp.568–571.

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Axelsson, C., Herrera, M.J. & Bång, A., 2015. How the context of ambulance care influences learning to become a specialist ambulance nurse a Swedish perspective. *Nurse Education Today*. 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.

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Boyle, M., 2015. Abstracts of the 2015 Paramedics Australasia International Conference. *Australasian Journal of Paramedicine*, 12(5).

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Boyle, M.J. & Wallis, J., 2015. The glut of graduate paramedics – What do we do with them? *Australasian Journal of Paramedicine*, 12(5).

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Davison, K. & Forbes, M.P., 2015. Pre-hospital medicine: A glimpse of the future. *Australasian Journal of Paramedicine*, 12(5).

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Deakin, C., 2015. 2015 Resuscitation Council (UK) Guidelines feature expanded section on prehospital resuscitation. *Journal of Paramedic Practice*, 7(11), pp.538–539.

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Eastwood, K. et al., 2015. A novel approach for managing the growing demand for ambulance services by low-acuity patients. *Australian Health Review : a publication of the Australian Hospital Association*.

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 .

Emond, K., Furness, S. & Deacon-Crouch, M., 2015. Undergraduate paramedic students' perception of mental health using a pre and post questionnaire. *Australasian Journal of Paramedicine*, 12(5). Click <a href="https://example.com/here">here</a> to access fulltext

Friesgaard, K.D. et al., 2015. Efficacy and safety of intravenous fentanyl administered by ambulance personnel. *Acta Anaesthesiologica Scandinavica*.

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Gillman, L.M. et al., 2015. S.T.A.R.T.T. plus: addition of prehospital personnel to a national multidisciplinary crisis resource management trauma team training course. *Canadian Journal of Surgery. Journal Canadien de Chirurgie*, 58(6), pp.010915–10915.

Click here to access fulltext

Kingswell, C., Shaban, R.Z. & Crilly, J., 2015. The lived experiences of patients and ambulance ramping in a regional Australian emergency department: An interpretive phenomenology study. *Australasian Emergency Nursing Journal : AENJ*, 18(4), pp.182–9. Click here to access fulltext

Lippman, J.M. et al., 2015. Mobile Telestroke During Ambulance Transport Is Feasible in a Rural EMS Setting: The iTREAT Study. *Telemedicine Journal and e-Health: the official journal of the American Telemedicine Association*.

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McCallum, J. et al., Assessment of Paramedic Ultrasound Curricula: A Systematic Review. *Air Medical Journal*, 34(6), pp.360–8.

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McClelland, G., 2015. World Stroke Day highlights continuing need for rapid assessment and transport of stroke patients by paramedics. *Journal of Paramedic Practice*, 7(11), pp.542–543. Click here to access fulltext. SWASFT Athens account required (register here)

Morris, T., Mason, S. & O'Keeffe, C., 2015. Analysing variation in staffing levels, attendances and performance against the 4-hour target using data from the royal college of emergency medicine's sentinel site survey. *Emergency Medicine Journal*, 32(12), pp.984.2–984. Click here to access fulltext. (conference abstract)

Mortimer, C., 2015. Training versus education: the terminology. *Journal of Paramedic Practice*, 7(11), pp.540–541.

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Pek, E., Banfai, B., et al., 2015. 337: How healthy are Hungary's ambulance personnel?-a representative study. *Critical Care Medicine*, 43(12 Suppl 1), p.86.

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Pek, E., Szekely-Benke, Z., et al., 2015. 342: Ambulance personnel and paramedic students' attitudes regarding death and dying. *Critical Care Medicine*, 43(12 Suppl 1), p.87. Click <a href="here">here</a> to access fulltext. SWASFT Athens account required (register <a href="here">here</a>)

Ramothwala, L.M., Stassen, W. & Stein, C., 2015. The accuracy of manual blood pressures obtained by paramedic students in a quiet simulated and roadside environment. *Australasian Journal of Paramedicine*, 12(5).

Click here to access fulltext

Taylor, D.M. et al., 2015. Development of a productive research culture in emergency medicine: Report of the outcomes of a research forum. *Emergency Medicine Australasia : EMA*. Click here to access fulltext

Wheeler, C., 2015. Pre-hospital emergency skills for medical students. *Emergency Medicine Journal*, 32(12), pp.1001.2–1002.

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

#### Prehospital Research – Methods and Discussion

Edwards, A., 2015. Top 10 TARN research publications. *Emergency Medicine Journal : EMJ*, 32(12), pp.966–8.

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Lecky, F., 2015. Twenty-five years of the trauma audit and research network: a continuing evolution to drive improvement. *Emergency Medicine Journal : EMJ*, 32(12), pp.906–8.

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#### Diagnosis and Triage

Adeoye, O. et al., 2015. 328: Does pre-hospital functional impairment predict short-term outcomes in critically ill adults? *Critical Care Medicine*, 43 (12 Suppl 1), pp.83–84.

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Battle, C.E. & Evans, P.A., 2015. Predictors of mortality in patients with flail chest: a systematic review. *Emergency Medicine Journal : EMJ*, 32(12), pp.961–5.

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Chesters, A. & Webb, T., 2015. Ketamine for procedural sedation by a doctor-paramedic prehospital care team. *European Journal of Emergency Medicine*, 22(6), pp.401–406.

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Hurtado-Sbordoni, M. et al., 2015. 335: Pre-hospital functional status in the critically ill: agreement between patient and proxy responses. *Critical Care Medicine*, 43(12 Suppl 1), p.85.

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

Jain, T.N. et al., 2015. Comparison of the Sacco Triage Method Versus START Triage Using a Virtual Reality Scenario in Advance Care Paramedic Students. *CJEM*, pp.1–5.

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

Leung, S.C. et al., 2015. Can prehospital Modified Early Warning Score identify non-trauma patients requiring life-saving intervention in the emergency department? *Emergency Medicine Australasia*: *EMA*.

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Mackenhauer, J. & Cantle, F., 2015. Audit standards in paediatric severe sepsis: *Emergency Medicine Journal*, 32(12), pp.976.1–976.

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Ray, S. & Peters, M.J., 2015. Timing of antibiotics, volume and vasoactive infusions in children with sepsis: it is all in the timing. *Critical Care (London, England)*, 19(1), p.394. Click here to access fulltext.

Ringbaek, T.J., Terkelsen, J. & Lange, P., 2015. Outcomes of acute exacerbations in COPD in relation to pre-hospital oxygen therapy. *European Clinical Respiratory Journal*, 2. Click <a href="here">here</a> to access fulltext.

Rudd, M. et al., 2015a. A systematic review of stroke recognition instruments in hospital and prehospital settings. *Emergency Medicine Journal*.

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Ruth, A. et al., 2015. Extracorporeal therapies in pediatric severe sepsis: findings from the pediatric health-care information system. *Critical Care (London, England)*, 19(1), p.397. Click here to access fulltext.

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Sivayoham, N. et al., 2015. The simplified mortality in severe sepsis in the emergency department (missed) score to risk stratify ED sepsis. *Emergency Medicine Journal*, 32(12), pp.986.2–987. Click <a href="here">here</a> to access fulltext.

Uleberg, O. et al., 2015. Temperature measurements in trauma patients: is the ear the key to the core? *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 23(1), p.101. Click here to access fulltext

### Patient Profile

Møller, T.P. et al., 2015. Why and when citizens call for emergency help: an observational study of 211,193 medical emergency calls. *Scandinavian Journal of Trauma, Resuscitation and Emergency* 

Medicine, 23(1), p.88.

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Neumann, M. V et al., 2015. Current profile of cycling injuries: A retrospective analysis of a trauma centre level 1 in Queensland. *Emergency Medicine Australasia : EMA*.

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Oud, L., 2015. The rising incidence of severe sepsis based on administrative data - real change or coding-driven bias? *Critical Care (London, England)*, 19(1), p.393.

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Potter, R., 2015. Falls in the Emergency Department. *Journal of Emergency Nursing: JEN : official publication of the Emergency Department Nurses Association*, 41(6), pp.467–8.

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Slagt, C. et al., 2015. Patient comfort: A continuum starting from prehospital setting throughout the hospital admission. *Injury*.

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#### Helicopter Emergency Medical Services

Crowe, R.P., Levine, R. & Bentley, M.A., Prehospital Helicopter Air Ambulances Part 1: Access, Protocols, and Utilization. *Air Medical Journal*, 34(6), pp.333–6.

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Crowe, R.P., Levine, R. & Bentley, M.A., Prehospital Helicopter Air Ambulances Part 2: Utilization Criteria and Training. *Air Medical Journal*, 34(6), pp.337–42.

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Garner, A.A., Barker, C.L. & Weatherall, A.D., 2015. Retrospective evaluation of prehospital triage, presentation, interventions and outcome in paediatric drowning managed by a physician staffed helicopter emergency medical service. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 23(1), p.92.

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#### On-Scene Interventions

Anon, 2015. Mass-gathering medical care: a retrospective analysis. *Journal of Paramedic Practice*, 7(11), pp.548–559.

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

Beck, B. et al., 2015. Trends in traumatic out-of-hospital cardiac arrest in Perth, Western Australia from 1997 to 2014. *Resuscitation*.

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Fox, H. & Hunter, F., 2015. BET 1: Intravenous tranexamic acid in the treatment of acute epistaxis. *Emergency Medicine Journal : EMJ*, 32(12), pp.969–70.

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Gilligan, P., Amadi-Obi, A., et al., 2015. Seeing is believing: the LiveCity ambulance e-health telemedicine project. *Emergency Medicine Journal*: *EMJ*, 32(12), pp.988.1–988. Click here to access fulltext

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Khor, M.X. et al., 2015. Pre-hospital notification is associated with improved stroke thrombolysis timing. *The Journal of the Royal College of Physicians of Edinburgh*, 45(3), pp.190–5. Click here to access fulltext (available free on 02/12/15)

Losvik, O.K. et al., 2015. Ketamine for prehospital trauma analgesia in a low-resource rural trauma system: a retrospective comparative study of ketamine and opioid analgesia in a ten-year cohort in Iraq. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 23(1), p.94. Click here to access fulltext

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O'Meara, P., Ruest, M. & Martin, A., 2015. Integrating a Community Paramedicine program with local health, aged care and social services: An observational ethnographic study. *Australasian Journal of Paramedicine*, 12(5).

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Villarreal, J. et al., 2015. Prehospital activated charcoal use in antipsychotic overdose. *The American Journal of Emergency Medicine*.

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#### Airway Management, Resuscitation & CPR

Chen, J.-J. et al., 2015. End-tidal carbon dioxide monitoring may be associated with a higher possibility of return of spontaneous circulation during out-of-hospital cardiac arrest: a population-based study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 23(1), p.104. Click here to access fulltext

Chiang, W.-C. et al., 2015. Prehospital intravenous epinephrine may boost survival of patients with traumatic cardiac arrest: a retrospective cohort study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 23(1), p.102.

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Diggs, L.A., Sheth-Chandra, M. & De Leo, G., 2015. Epidemiology of Pediatric Prehospital Basic Life Support Care in the United States. *Prehospital Emergency Care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–9. Click here to access abstract, email <a href="mailto:library.mailbox@nhs.net">library.mailbox@nhs.net</a> to request fulltext.

Ismail, S. et al., 2015. Prehospital Airway Management in Emergency and Trauma Patients: A Cross-sectional Study of Ambulance Service Providers and Staff in a Low- and Middle-income Country. *Prehospital and Disaster Medicine*, pp.1–7.

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.

Kang, K. et al., 2015. Prehospital endotracheal intubation and survival after out-of-hospital cardiac arrest: results from the Korean nationwide registry. *The American Journal of Emergency Medicine*. Click <a href="https://example.com/here">here</a> to access fulltext. SWASFT Athens account required (register <a href="here">here</a>)

Lemiale, V. et al., 2015. The effects of a 2-h trial of high-flow oxygen by nasal cannula versus Venturi mask in immunocompromised patients with hypoxemic acute respiratory failure: a multicenter randomized trial. *Critical Care (London, England)*, 19(1), p.380.

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Lin, C.-H. et al., 2015. Variation of current protocols for managing out-of-hospital cardiac arrest in prehospital settings among Asian countries. *Journal of the Formosan Medical Association = Taiwan yi zhi*.

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Mileder, L.P., 2015. Endotracheal intubation in newly born infants in the light of new resuscitation guidelines. *Resuscitation*.

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Nielsen, A.K.W. et al., 2015. Changes in coagulation during therapeutic hypothermia in cardiac arrest patients. *Resuscitation*.

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Ogawa, Y. et al., 2015. Load-distributing-band cardiopulmonary resuscitation for out-of-hospital cardiac arrest increases regional cerebral oxygenation: a single-center prospective pilot study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 23(1), p.99. Click here to access fulltext

Osei-Ampofo, M. et al., 2015. A Novel Approach to Improve Time to First Shock in Prehospital STEMI Complicated by Ventricular Fibrillation. *Prehospital Emergency Care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–5. Click here to access abstract, email <a href="mailto:library.mailbox@nhs.net">library.mailbox@nhs.net</a> to request fulltext.

Puymirat, E. et al., 2015. Correlates of pre-hospital morphine use in ST-elevation myocardial infarction patients and its association with in-hospital outcomes and long-term mortality: the FAST-MI (French Registry of Acute ST-elevation and non-ST-elevation Myocardial Infarction) pr. *European Heart Journal*.

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Salcido, D.D. et al., 2015. Regional Incidence and Outcome of Out-of-Hospital Cardiac Arrest Associated with Overdose. *Resuscitation*.

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Seung, M.K. et al., 2015. Comparison of complications secondary to cardiopulmonary resuscitation between out-of-hospital cardiac arrest and in-hospital cardiac arrest. *Resuscitation*. Click here to access fulltext. SWASFT Athens account required (register here)

Slessor, D. & Ashton, A., 2015. Out of hospital cardiac arrests and emergency coronary angiography. *Emergency Medicine Journal*, 32(12), pp.994.2–995. Click here to access fulltext

Søreide, E. & Larsen, A.I., 2015. Post resuscitation care - some words of caution and a call for action. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 23(1), p.89. Click here to access fulltext

#### **New Ebooks**

SWASFT Athens account required (register here)

- <u>Ciottone's Disaster Medicine</u> (Ciottone) 2nd ed, 2016 (ISBN: 9780323286657)
- Gray's Anatomy: The Anatomical Basis of Clinical Practice (Standring) 41st ed, 2016 (ISBN: 9780702052309)
- <u>Stroke: Pathophysiology, Diagnosis, and Management</u> (Grotta) 6th ed, 2016. (ISBN: 9780323295444)

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