



Prehospital Emergency Services Current Awareness Update Issue 35, April 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 35, April 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>

<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

SWASFT Authors Kirby, K., Moreland, S. & Pollard, J., 2016. The impact of working shifts: exploring the views of UK paramedics. *Journal of Paramedic Practice*, 8(5), pp.252–257. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Acker, J.J., 2016. Informing our Future: The development of a regulatory framework for registered paramedics in Australia. *Australasian Journal of Paramedicine*, 13(2). Click here to access fulltext (free online as of 18/05/2016)

Armitage, E., 2016. UK Ambulance Services Clinical Practice Guidelines 2016 Pocket Book Review. *Journal of Paramedic Practice*, 8(5), p.260.

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

Becker, T.K. et al., 2016. Global Emergency Medicine: A review of the literature from 2015. Academic emergency medicine: official journal of the Society for Academic Emergency Medicine. Click here to access fulltext (free online as of 18/05/2016)

Cheng, J. et al., 2016. Impacts of temperature change on ambulance dispatches and seasonal effect modification. *International journal of biometeorology*.

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

DuBose, D.N. et al., 2016. Horizontal Slide Creates Less Cervical Motion When Centering an Injured Patient on a Spine Board. *The Journal of emergency medicine*, 50(5), pp.728–33. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Feltham, C. et al., 2016. Student midwives and paramedic students' experiences of shared learning in pre-hospital childbirth. *Nurse Education Today*, 41, pp.73–78. Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

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Johnson, S.R., Paramedics deployed as care navigators. *Modern healthcare*, 45(51), p.28. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>).

Kline, J.A. & Promes, S.B., 2016. Introducing Academic Emergency Medicine Education and Training. *Academic emergency medicine: official journal of the Society for Academic Emergency Medicine*.

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

Kukowski, C., King, D.B. & DeLongis, A., 2016. Protective effect of paramedics' sense of personal accomplishment at work: Mitigating the impact of stress on sleep. *Australasian Journal of Paramedicine*, 13(2).

Click here to access fulltext (free online as of 18/05/2016)

Pidcoke, H.F. & Spinella, P.C., 2016. RDCR Symposium fifth-year anniversary edition: global prehospital care rooted in a history of military innovation. *Transfusion*, 56 Suppl 2, pp.S107–9. Click here to access fulltext (free online as of 18/05/2016)

Quaile, A., 2016. Ambulance staff contemplate suicide due to stress and poor mental health. *Journal of Paramedic Practice*, 8(5), pp.224–226.

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

Sriram, V. et al., 2016. Comparative analysis of three prehospital emergency medical services organizations in India and Pakistan. *Public Health*.

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

Szarpak, L. et al., 2016. Comparison of Bone Injection Gun and Jamshidi intraosseous access devices by paramedics with and without chemical-biological-radiological-nuclear personal protective equipment: a randomized, crossover, manikin trial. *The American journal of emergency medicine*. Click here to access fulltext- SWASFT Athens required (register here).

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Szarpak, L. et al., 2016. Ability of paramedics to perform intraosseous access. A randomized cadaver study comparing EZ-IO(®) and NIO(®) devices. *Resuscitation*.

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

Welp, A., Meier, L.L. & Manser, T., 2016. The interplay between teamwork, clinicians' emotional exhaustion, and clinician-rated patient safety: a longitudinal study. *Critical Care*, 20(1), p.110. Click here to access fulltext (free online as of 18/05/2016)

Prehospital Research – Methods and Discussion

Annemans, L. et al., 2016. Prehospital and in-hospital use of healthcare resources in patients surviving acute coronary syndromes: an analysis of the EPICOR registry. *Open heart*, 3(1), Click here to access fulltext (free online as of 18/05/2016)

Buswell, M. et al., 2016. Using ambulance service PCRs to understand 999 call-outs to older people with dementia. *Journal of Paramedic Practice*, 8(5), pp.246–251.

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

Felzen, M. et al., 2016. Improved technical performance of a multifunctional prehospital telemedicine system between the research phase and the routine use phase - an observational study. *Journal of telemedicine and telecare*.

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

Friedman, M.S. & Manini, A.F., 2016. Validation of Criteria to Guide Prehospital Naloxone Administration for Drug-Related Altered Mental Status. *Journal of medical toxicology: official journal of the American College of Medical Toxicology.*

Available <u>here</u> free on NHS networked machine, email <u>library.mailbox@nhs.net</u> to request fulltext if unable to access.

Goldstein, P. et al., 2016. Mortality in primary angioplasty patients starting antiplatelet therapy with prehospital prasugrel or clopidogrel: a 1-year follow-up from the European MULTIPRAC Registry. *Vascular health and risk management*, 12, pp.143–51.

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Schwindling, L. et al., 2016. Prehospital Imaging-Based Triage of Head Trauma with a Mobile Stroke Unit: First Evidence and Literature Review. *Journal of neuroimaging : official journal of the American Society of Neuroimaging*.

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Diagnosis and Triage

Arcos González, P. et al., 2016. The development and features of the Spanish prehospital advanced triage method (META) for mass casualty incidents. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.63.

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Bååth, C. et al., 2016. Prevention of heel pressure ulcers among older patients – from ambulance care to hospital discharge: A multi-centre randomized controlled trial. *Applied Nursing Research*, 30, pp.170–175.

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Brown, J.B. et al., 2016. Prehospital Lactate Improves Accuracy of Prehospital Criteria for Designating Trauma Activation Level. *The journal of trauma and acute care surgery*. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Follin, A. et al., 2016. Tree-based algorithm for prehospital triage of polytrauma patients. *Injury*. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

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Szarpak, L. et al., 2016. Ultrasonography as a tool for prehospital recognition of tension pneumothorax: Preliminary data. *The American 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

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Patient Profile

Ageron, F.-X. et al., 2016. Effectiveness of a Multimodal Intervention Program for Older Individuals Presenting to the Emergency Department After a Fall in the Northern French Alps Emergency Network. *Academic emergency medicine: official journal of the Society for Academic Emergency Medicine.*

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

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Helicopter Emergency Medical Services

Eidenbenz, D. et al., 2016. A two-year retrospective review of the determinants of pre-hospital analgesia administration by alpine helicopter emergency medical physicians to patients with isolated limb injury. *Anaesthesia*.

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Griffiths, E., 2016. Cardiac care in SAR helicopter paramedic practice: from mountainside to rehabilitation. *Journal of Paramedic Practice*, 8(5), pp.238–244.

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On-Scene Interventions

Campbell, A. & Ellington, M., 2016. Reducing Time to First on Scene: An Ambulance-Community First Responder Scheme. *Emergency medicine international*, 2016, p.1915895.

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Moscote-Salazar, L.R. et al., 2016. Severe Cranioencephalic Trauma: Prehospital Care, Surgical Management and Multimodal Monitoring. *Bulletin of emergency & trauma*, 4(1), pp.8–23. Click here to access fulltext (free online as of 18/05/2016)

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Perlman, R. et al., 2016. A recommended early goal-directed management guideline for the prevention of hypothermia-related transfusion, morbidity, and mortality in severely injured trauma patients. *Critical care (London, England)*, 20(1), p.107.

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Puolakka, T. et al., 2016. Prehospital Phase of the Stroke Chain of Survival: A Prospective Observational Study. *Journal of the American Heart Association*, 5(5). Click here to access fulltext (free online as of 18/05/2016)

Takinami, Y., 2016. [Tracheal Intubation by Paramedics in a Local Community: Current Situation and Future Challenges]. *Masui. The Japanese journal of anesthesiology*, 65(3), pp.308–13.

Japanese language article

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

van Tulder, R. et al., 2016. Laryngeal Tube Practice in a Metropolitan Ambulance Service: A Five-year Retrospective Observational Study (2009-2013). *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–7.

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Wise, S.L. & O'Neil, B.J., 2016. KEEPING COOL? Prehospital targeted temperature management in cardiac arrest patients. *JEMS*: a journal of emergency medical services, 41(3), pp.40–2. Click here to access fulltext (free online as of 18/05/2016)

Woolley, T. et al., 2016. NATO Blood Panel perspectives on changes to military prehospital resuscitation policies: current and future practice. *Transfusion*, 56 Suppl 2, pp.S217–23. Click here to access fulltext (free online as of 18/05/2016)

Airway Management, Resuscitation & CPR

SWASFT Authors Brandling, J. et al., 2016. An exploration of the views of paramedics regarding airway management. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.56.

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Emergency Nurses Association, 2014. Resuscitative Decisions: Maintaining, Withholding, and Withdrawing Resuscitative interventions in the Emergency Setting.

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Beskind, D.L. et al., 2016. Viewing a brief chest-compression-only CPR video improves bystander CPR performance and responsiveness in high school students: A cluster randomized trial. *Resuscitation*, 104, pp.28–33.

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Bowles, F. & Rawlinson, K., 2016. BET 3: The efficacy of chest compressions in paediatric traumatic arrest. *Emergency medicine journal : EMJ*, 33(5), p.368.

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Burke, C.R. et al., 2016. Extracorporeal life support for victims of drowning. *Resuscitation*, 104, pp.19–23.

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Govender, K. et al., 2016. Comparison of two training programmes on paramedic-delivered CPR performance. *Emergency medicine journal : EMJ*, 33(5), pp.351–6.

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Ihnát Rudinská, L. et al., 2016. Intra-thoracic injuries associated with cardiopulmonary resuscitation - Frequent and serious. *Resuscitation*, 103, pp.66–70.

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Matsumura, Y. et al., 2016. Nighttime is associated with decreased survival and resuscitation efforts for out-of-hospital cardiac arrests: a prospective observational study. *Critical care (London, England)*, 20(1), p.141.

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Møller, S.G. et al., 2016. Temporal trends in survival after out-of-hospital cardiac arrest in patients with and without underlying chronic obstructive pulmonary disease. *Resuscitation*.

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Pearson, D.A. et al., 2016. Comparison of Team-Focused CPR vs Standard CPR in Resuscitation from Out-of-Hospital Cardiac Arrest: Results from a Statewide Quality Improvement Initiative. *Resuscitation*.

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Smith, J. & Judge, B., 2016. BET 1: Effectiveness of the precordial thump in restoring heart rhythm following out-of-hospital cardiac arrest. *Emergency medicine journal : EMJ*, 33(5), pp.366–7. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Vetter, V.L. et al., 2016. Innovative cardiopulmonary resuscitation and automated external defibrillator programs in schools: Results from the Student Program for Olympic Resuscitation Training in Schools (SPORTS) study. *Resuscitation*.

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Williams, S.T. et al., 2016. The 2015 advanced life support guidelines: a summary and evidence for the updates. *Emergency medicine journal*: *EMJ*, 33(5), pp.357–60.

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Zakariassen, E. & Hunskaar, S., 2016. Potential cardiac arrest - an observational study of pre-hospital medical response. *Scandinavian journal of primary health care*, pp.1–5. Click here to access fulltext (free online as of 18/05/2016)

New Ebooks and other resources

- ALSG. (2016) <u>Advanced Paediatric Life Support</u>: a practical approach to emergencies, 6th ed. John Wiley & Sons.
- Lowes, T. (2016) Pre-Hospital Anesthesia Handbook. Springer.

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