



Prehospital Emergency Services Current Awareness Update Issue 49, July 2017

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 49, July 2017

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

Cartledge, S. et al., 2017. The barriers associated with emergency medical service use for acute coronary syndrome: the awareness and influence of an Australian public mass media campaign. Emergency Medicine Journal, 34(7), pp.466–471.

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Cash, R.E. et al., 2017. Exiting the Emergency Medical Services Profession and Characteristics Associated with Intent to Return to Practice. Prehospital Emergency Care, pp.1–6. 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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Crowe, L., Young, J. & Turner, J., 2017. The key to resilient individuals is to build resilient and adaptive systems. Emergency Medicine Journal, 34(7), pp.428–429.

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Déziel, J., 2017. Effects of Emergency Medical Services Agency Ownership Status on Patient Transport. Prehospital Emergency Care, pp.1–5.

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Dodd, G., 2017. PTSD, available support and development of services in the UK Ambulance Service. Journal of Paramedic Practice, 9(6), pp.258–263.

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Domrev-Benkovich, A., Ronen, A. & Grinstein-Cohen, O., 2017. Does experience change anything? Attitudes of paramedic students regarding drinking and driving. Journal of Public Health, pp.1–8. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

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Van Dillen, C. & Kim, S.H., 2017. Unnecessary emergency medical services transport associated with alcohol intoxication. Journal of International Medical Research, p.30006051771811.

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### Prehospital Research – Methods and Discussion

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Allan, K.S. et al., 2017. "Presumed cardiac" arrest in children and young adults: A misnomer? Resuscitation, 117, pp.73–79.

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Balamuth, F. et al., 2017. Improving Recognition of Pediatric Severe Sepsis in the Emergency Department: Contributions of a Vital Sign-Based Electronic Alert and Bedside Clinician Identification. Annals of Emergency Medicine.

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Bray, J.E. et al., 2017. A strategic framework improves access to stroke reperfusion across the state of Victoria, Australia. Internal Medicine Journal.

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Catanach, B., 2017. Association Between Early Lactate Level and 30-Day Mortality in Clinically Suspected Sepsis in Children. The Journal of Emergency Medicine, 52(6), pp.911–912. 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

Chun Kim, S. et al., 2017. The Revised Trauma Score plus serum albumin level improves the prediction of mortality in trauma patients. The American Journal of Emergency Medicine 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

Cruz, A.T., 2017. Between the Devil and the Deep Blue Sea: Use of Real-Time Tools to Identify Children With Severe Sepsis in the Pediatric Emergency Department. Annals of Emergency Medicine. 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

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Katayama, Y. et al., 2017. Factors associated with prehospital death among traffic accident patients in Osaka City, Japan: a population-based study. Traffic Injury Prevention, pp.00–00.

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Rossetti, A.O. & Waterhouse, E., 2017. Missed diagnosis of prehospital status epilepticus. Neurology, p.10.1212/WNL.000000000004164.

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Schlemm, E. et al., 2017. Optimal Transport Destination for Ischemic Stroke Patients With Unknown Vessel Status. Stroke, p.STROKEAHA.117.017281.

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Spaite, D.W. et al., 2017. Association of Out-of-Hospital Hypotension Depth and Duration With Traumatic Brain Injury Mortality. Annals of Emergency Medicine.

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Stickles, J.L., Kempema, J.M. & Brown, L.H., 2017. Effect of mobile phone proliferation on crash notification times and fatality rates. The American Journal of Emergency Medicine.

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Tonglet, M. et al., 2017. Prehospital identification of trauma patients requiring transfusion: results of a retrospective study evaluating the use of the trauma induced coagulopathy clinical score (TICCS) in 33,385 patients from the TraumaRegister DGU <sup>®</sup>. Acta Chirurgica Belgica, pp.1–6.

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Van Meer, R. et al., 2017. Zika Virus in Ontario: Evaluating a Rapid Risk Assessment Tool for Emerging Infectious Disease Threats. Health Security, 15(3), pp.230–237.

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Whiles, B.B., Deis, A.S. & Simpson, S.Q., 2017. Increased Time to Initial Antimicrobial Administration Is Associated With Progression to Septic Shock in Severe Sepsis Patients. Critical Care Medicine, 52(6), p.1. 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

Williamson, K. et al., 2017. Acuity Prediction Using Emergency Medical Services Prenotifications in a Pediatric Emergency Department. Pediatric Emergency Care, p.1.

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Witt, K. et al., 2017. Co-consumption of alcohol and psychotropic medications in episodes of non-fatal self-poisoning attended by ambulance services in Victoria, Australia: evidence of potential modification by medical severity K. Xenitidis & C. Campbell, eds. The British Journal of Psychiatry, 211(1), p.53.1-53.

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#### **Patient Profile**

#### Children

Fishe, J.N. et al., 2017. Retrospective Evaluation of Risk Factors for Pediatric Secondary Transport. Prehospital Emergency Care, pp.1–9.

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McGovern, M., Kernan, R. & O'Neill, M.B., 2017. Parental Decisions regarding pre-hospital therapy and costing of the Emergency Department Visit. Irish medical journal, 110(2), p.513.

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Muñoz, M.G. & Beyda, D.H., 2017. An Ethical Justification for Termination of Resuscitation Protocols for Pediatric Patients. Pediatric Emergency Care, 33(7), pp.505–515.

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#### **Older People**

Ke, Y.-T. et al., 2017. Emergency geriatric assessment: A novel comprehensive screen tool for geriatric patients in the emergency department. The American Journal of Emergency Medicine. 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

Lo, A.X., Biese, K. & Carpenter, C.R., 2017. Defining Quality and Outcome in Geriatric Emergency Care. Annals of Emergency Medicine, 70(1), pp.107–109.

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Sri-on, J. et al., 2017. Revisit, Subsequent Hospitalization, Recurrent Fall, and Death Within 6 Months After a Fall Among Elderly Emergency Department Patients. Annals of Emergency Medicine. 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

#### **Frequent Users**

Bronsky, E.S. et al., 2017. Cares: A Community-wide Collaboration Identifies Super-utilizers and Reduces Their 9-1-1 Call, Emergency Department, and Hospital Visit Rates. Prehospital Emergency Care, pp.1–7.

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## **Helicopter Emergency Medical Services**

Farach, S.M. et al., 2017. Helicopter Transport From the Scene of Injury Are There Improved Outcomes for Pediatric Trauma Patients? Pediatric Emergency Care, 0(0), pp.1–5.

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