



Prehospital Emergency Services Current Awareness Update Issue 53, November 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 53, November 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>

<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

Anon, Paramedic Pathfinder pilot scheme produces a 34% increase in successful referrals. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

Ablard, S. et al., 2017. Can more appropriate support and services be provided for people who attend the emergency department frequently? National Health Service staff views. Emergency Medicine Journal, 34(11), p.emermed-2016-206546.

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

Aléx, J., Uppstu, T. & Saveman, B.-I., 2017. The opinions of ambulance personnel regarding using a heated mattress for patients being cared for in a cold climate – An intervention study in ambulance care. International Journal of Circumpolar Health, 76(1), p.1379305.

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Amorim, M., Ferreira, S. & Couto, A., 2017. Road safety and the urban emergency medical service (uEMS): Strategy station location. Journal of Transport and Health, 6, pp.60–72.

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

Armitage, E. & Jones, C., 2017. Paramedic attitudes towards DNACPR orders. Journal of Paramedic Practice, 9(10), pp.445–452.

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Barry, T. et al., 2017. The MERIT 3 project: Alerting general practitioners to cardiac arrest in the community. Resuscitation, 121, pp.141–146.

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Burdzy, D. et al., 2017. Use Of Teletransmission And Influence Of Telemedicine On Enhancing Healthcare Quality In Opinions Of Paramedics From The Podkarpackie Province - A Pilot Survey. Journal of Education, Health and Sport, 7(10), pp.79–95.

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Callwood, A. et al., 2018. The reliability and validity of multiple mini interviews (MMIs) in values based recruitment to nursing, midwifery and paramedic practice programmes: Findings from an evaluation study. International Journal of Nursing Studies, 77, pp.138–144.

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Çiftci, F. et al., 2017. Beliefs, Attitudes, and Activities of Healthcare Personnel About Influenza and Pneumococcal Vaccines. Human Vaccines & Immunotherapeutics, pp.00–00.

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Corman, M.K., 2017. Driving to Work: The Front Seat Work of Paramedics to and from the Scene. Symbolic Interaction.

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Denti, L. et al., 2017. Impact on Prehospital Delay of a Stroke Preparedness Campaign. Stroke, p.STROKEAHA.117.018135.

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Glenn, M. et al., 2017. State Regulation of Community Paramedicine Programs: A National Analysis. Prehospital Emergency Care, pp.1–8.

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Gouweloos-Trines, J. et al., 2017. Perceived support at work after critical incidents and its relation to psychological distress: a survey among prehospital providers. Emergency Medicine Journal, p.emermed-2017-206584. Available at: <a href="http://emj.bmj.com/lookup/doi/10.1136/emermed-2017-206584">http://emj.bmj.com/lookup/doi/10.1136/emermed-2017-206584</a> [Accessed November 5, 2017]. NHS Open Athens@

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HCPC & University of Surrey, 2017. People like us? Understanding complaints about paramedics and social workers,

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Kreslake, J.M. et al., 2017. The Critical Roles of Health Professionals in Climate Change Prevention and Preparedness. American journal of public health, pp.e1–e2.

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Lai, Y.-L., Chou, Y.-H. & Chang, L.-C., 2017. An intelligent IoT emergency vehicle warning system using RFID and WiFi technologies for emergency medical services. Technology and Health Care, pp.1–13.

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Maartens, T. & de Waal, B., 2017. A comparison of direct laryngoscopy to video laryngoscopy by paramedic students in manikin-simulated airway management scenarios. African Journal of Emergency Medicine. Click here to access fulltext (free online as of 16/11/2017)

Medford-Davis, L.N. et al., 2017. Which transfers can we avoid: Multi-state analysis of factors associated with discharge home without procedure after ED to ED transfer for traumatic injury. The American Journal of Emergency Medicine.

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Griffith, R. 2017. Amended police powers under the MHA 1983. Journal of Paramedic Practice, 9(10), pp.424–427.

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Prabhakaran, K. et al., 2017. Mortality rates of severe traumatic brain injury patients: impact of direct versus nondirect transfers. Journal of Surgical Research, 219, pp.66–71.

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Rouse, C. et al., 2017. A traumatic tale of two cities: does EMS level of care and transportation model affect survival in patients with trauma at level 1 trauma centres in two neighbouring Canadian provinces? Emergency Medicine Journal, 17, p.emermed-2016-206329. Available at:

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Tanner, D. et al., 2017. A Prospective Evaluation of the Accuracy of Weight Estimation Using the Broselow Tape in Overweight and Obese Pediatric Patients in the Emergency Department. Pediatric Emergency Care, 33(10), pp.675–678.

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Wandling, M.W. et al., 2017. Association of Prehospital Mode of Transport With Mortality in Penetrating Trauma. JAMA Surgery.

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Wilson, W. et al., 2017. Quantifying Burnout among Emergency Medicine Professionals: A Cross-sectional Study in Select Tertiary Care Teaching Hospitals in South India. Journal of Emergencies, Trauma, and Shock, 10(4), p.199.

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#### Prehospital Research – Methods and Discussion

Olaussen, A., Semple, W., Oteir, A., Todd, P. & and Williams, B., 2017. Paramedic literature search filters: optimised for clinicians and academics. BMC Medical Informatics and Decision Making, 17(146). Click <a href="https://example.com/here">here</a> to access fulltext (free online as of 16/11/2017)

#### Diagnosis and Triage

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Ambagtsheer, R.C. et al., 2017. Diagnostic test accuracy of self-reported frailty screening instruments in identifying community-dwelling older people at risk of frailty and pre-frailty. JBI Database of Systematic Reviews and Implementation Reports, 15(10), pp.2464–2468.

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Gardner, R.M. et al., 2017. Impact of revised triage to improve throughput in an emergency department with limited traditional fast track population. The American Journal of Emergency Medicine.

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Hansoti, B. et al., 2017. A systematic review of emergency department based HIV testing and linkage to care initiatives in low resource settings D. J. Colby, ed. PLOS ONE, 12(11), p.e0187443.

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Kuriyama, A., Urushidani, S. & Nakayama, T., 2017. Five-level emergency triage systems: variation in assessment of validity. Emergency Medicine Journal, 34(11), pp.703–710.

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Tsai, L.-H. et al., 2017. Comparison of prehospital triage and five-level triage system at the emergency department. Emergency Medicine Journal, 34(11), p.emermed-2015-205304.

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Tusgul, S. et al., 2017. Low sensitivity of qSOFA, SIRS criteria and sepsis definition to identify infected patients at risk of complication in the prehospital setting and at the emergency department triage. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 25(1), p.108.

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Wilson, C., Harley, C. & Steels, S., 2017. PP09 Pre-hospital diagnostic accuracy for hyperventilation syndrome. Emergency Medicine Journal, 34(10), p.e3.3-e3.

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Wilson, M.P. et al., 2017. Risperidone in the Emergency Setting is Associated with More Hypotension in Elderly Patients. Journal of Emergency Medicine.

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#### **Patient Profile**

#### Children

Gunnvall, K. et al., 2017. Specialist nurses' experiences when caring for preverbal children in pain in the prehospital context in Sweden. International Emergency Nursing.

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Hogan, C.M. et al., 2017. Parental Perceptions, Risks, and Incidence of Pediatric Unintentional Injuries. Journal of emergency nursing: JEN: official publication of the Emergency Department Nurses Association, 0(0). 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

Woods, R.H. et al., 2017. Barriers to Implementation of Recommendations for Transport of Children in Ground Ambulances. Pediatric Emergency Care, p.1.

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# **Older People**

Skilbeck, J.K., Arthur, A. & Seymour, J., 2017. Making sense of frailty: An ethnographic study of the experience of older people living with complex health problems. International Journal of Older People Nursing.

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# **Helicopter Emergency Medical Services**

Brown, J.B. et al., 2017. Comparing the Air Medical Prehospital Triage Score With Current Practice for Triage of Injured Patients to Helicopter Emergency Medical Services. JAMA Surgery

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Garner, A.A. & van den Berg, P.L., 2017. Locating helicopter emergency medical service bases to optimise population coverage versus average response time. BMC Emergency Medicine, 17(1), p.31.

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Griffiths, E.J., 2017. SAR helicopter paramedic practice: EtCO 2 measuring to assist with CPR attempts. Journal of Paramedic Practice, 9(10), pp.428–436.

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Kumagai, T. et al., 2017. Perinatal helicopter ambulance service at Wakayama Medical University Hospital: A 14-year review. Pediatrics International.

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Wolff, J. et al., 2017. Violence: Recognition, Management and Prevention ENHANCED VERSUS BASIC REFERRAL FOR INTIMATE PARTNER VIOLENCE IN AN. Journal of Emergency Medicine, (June), pp.1–7. 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

Schneider, M.A. et al., 2017. Reducing Door-in Door-out Intervals in Helicopter ST-segment Elevation Myocardial Infarction Interhospital Transfers. In Air Medical Journal. pp. 244–247.

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Sonne, A. et al., 2017. Prehospital interventions before and after implementation of a physician-staffed helicopter. Danish Medical Journal, 64(10).

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# On-Scene Interventions

Cole, J.B. et al., 2017. A prospective study of ketamine as primary therapy for prehospital profound agitation. The American Journal of Emergency Medicine.

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Cone, D.C., 2017. Lessons from a pragmatic trial of field targeted temperature management. Resuscitation, 0(0).

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Garner, A.A. et al., 2017. Hemodynamic Deterioration in Lateral Compression Pelvic Fracture After Prehospital Pelvic Circumferential Compression Device Application. Air Medical Journal, 36(5), pp.272–274.

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Gulec, N. et al., 2017. Basic and Advanced EMS Providers Are Equally Effective in Naloxone Administration for Opioid Overdose in Northern New England. Prehospital Emergency Care, pp.1–7.

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Krebs, W. et al., 2017. Prehospital Stroke Assessment for Large Vessel Occlusions: A Systematic Review. Prehospital Emergency Care, pp.1–9.

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Winters, M.E. et al., 2017. What is the Preferred Resuscitation Fluid for Patients with Severe Sepsis and Septic Shock? The Journal of Emergency Medicine.

# Airway Management, Resuscitation & CPR

Anon, 2017. Knowledge and attitudes of paramedics toward the usage of capnography as a ventilation monitoring tool during resuscitation. The American Journal of Emergency Medicine.

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Anon, 2017. Diagnosis of Aortic Dissection Presenting as ST-Elevation Myocardial Infarction using Point-Of-Care Ultrasound. The Journal of Emergency Medicine.

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Aleksandrowicz, D. & Gaszyński, T., 2017. Airway management with simultaneous cervical spine immobilisation: A comparison between the Macintosh laryngoscope and the Airtraq® optical laryngoscope used by experienced paramedics – A manikin study. Trends in Anaesthesia and Critical Care, 15, pp.25–28. 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

Brady, W.J., Glass, G. & O'Connor, R.E., 2017. A better understanding of lay providers' CPR performance during resuscitation of out-of-hospital cardiac arrest. Resuscitation, 0(0).

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Brown, L.E. et al., 2017. CPR skill retention in 795 high school students following a 45-minute course with psychomotor practice. The American Journal of Emergency Medicine.

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Norum, J. et al., 2017. Treatment of acute myocardial infarction in the sub-arctic region of Norway. Do we offer an equal quality of care? International Journal of Circumpolar Health, 76(1), p.1391651.

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Goto, Y., Funada, A. & Goto, Y., 2017. Conventional versus chest-compression-only cardiopulmonary resuscitation by bystanders for children with out-of-hospital cardiac arrest. Resuscitation, 0(0). Click <a href="here">here</a> to access fulltext- SWASFT Athens required (register <a href="here">here</a>). Click <a href=here</a> to access free abstract

Heitz, C., Morgenstern, J. & Milne, W.K., 2017. Hot Off the Press: Prehospital Advanced Cardiac Life Support for Out-of-hospital Cardiac Arrest. Academic Emergency Medicine.

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext Prehospital Emergency Services Current Awareness Update – Issue 53, November 2017 Hernandez, M.C. et al., 2017. Definitive airway management after prehospital supraglottic rescue airway in pediatric trauma. Journal of Pediatric Surgery.

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Ho, M.L. et al., 2017. Utility of prehospital electrocardiogram characteristics as prognostic markers in out-of-hospital pulseless electrical activity arrests. Emergency Medicine Journal, p.emermed-2017-206878. 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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