



Prehospital Emergency Services Current Awareness Update Issue 59, May 2018

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

You will need a **SWASFT Athens account** to access resources -register <u>here</u>

Need help accessing resources?

- email library.mailbox@nhs.net
- Visit http://discoverylibrary.org/swasft
- ring 01752 439111 (Mon-Fri 0830-1730) lead library
- Visit your <u>local NHS library</u>

Prehospital Emergency Services Current Awareness Update - Issue 59, May 2018

With thanks to Matt Holland, LKS ASE 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:

<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

New ebooks and other resources

Visit http://discoverylibrary.org/swasft to see all the information resources available to you including:

-ebooks
-databases
-journals
-point of care tools
-apps

Prehospital Practitioners – Roles, Professional Practice and Development

Alm Pfrunder, A. et al., 2018. Prehospital emergency care nurses' strategies while caring for patients with limited Swedish - English proficiency. *Journal of Clinical Nursing*.

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

Bristol, S., Kostelec, T. & MacDonald, R., 2018. Improving Emergency Health Care Workers' Knowledge, Competency, and Attitudes Toward Lesbian, Gay, Bisexual, and Transgender Patients Through Interdisciplinary Cultural Competency Training. *Journal of emergency nursing: JEN : official publication of the Emergency Department Nurses Association*, 0(0).

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

Chapman, E., 2018. Handling dyslexia while becoming a paramedic. *Journal of Paramedic Practice*, 10(4), pp.175–175.

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

Chung, A. et al., 2018. Educator Toolkits on Second Victim Syndrome, Mindfulness and Meditation, and Positive Psychology: The 2017 Resident Wellness Consensus Summit. *Western Journal of Emergency Medicine*, 19(2), pp.327–331.

Click here to access fulltext (free online as of 24/05/2018)

Eaton, G., Mahtani, K. & Catterall, M., 2018. The evolving role of paramedics – a NICE problem to have? *Journal of Health Services Research & Policy*, p.135581961876835.

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

Gallagher, A. et al., 2018. Fitness-to-practise concerns and preventative strategies. *Journal of Paramedic Practice*, 10(4), pp.163–169.

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

Gawel, W. et al., 2018. Should paramedics use automated external defibrillators? 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

Hayes, C., 2018. Building psychological resilience in the paramedic. *Journal of Paramedic Practice*, 10(4), pp.147–152.

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

Huang, Y.-H. et al., 2018. Development of sustainable community paramedicine programmes: a case study in Pennsylvania. *Emergency Medicine Journal*, p.emermed-2017-207211.

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

Kang, X. et al., 2018. The Benefits of Indirect Exposure to Trauma: The Relationships among Vicarious Posttraumatic Growth, Social Support, and Resilience in Ambulance Personnel in China. *Psychiatry Investigation*, 15(5), pp.452–459.

Click here to access fulltext (free online as of 24/05/2018)

Lad, U. et al., 2018. Comparing the biomechanical and psychophysical demands imposed on paramedics when using manual and powered stretchers. *Applied Ergonomics*, 70, pp.167–174. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

Mahtani, K.R. et al., 2018. Setting the scene for paramedics in general practice: what can we expect? *Journal of the Royal Society of Medicine*, p.14107681876941.

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

Maison, P. & Batt, A., 2018. #FOAMems: Engaging paramedics with free, online open-access education. *Journal of Education and Health Promotion*, 7, p.32.

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

McKelvin, R., 2018. The good we do outweighs the rest. *International Paramedic Practice*, 8(1), pp.2–

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

Mills, B.W. et al., 2018. Investigating the Extent Realistic Moulage Impacts on Immersion and Performance Among Undergraduate Paramedicine Students in a Simulation-based Trauma Scenario. Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare, p.1. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

Morchel H, Ogedegbe C, Chaplin W, Cheney B, Zakharchenko S, Misch D, Schwartz M, Feldman J, K.S., 2018. Evaluation of a Novel Wireless Transmission System for Trauma Ultrasound Examinations From Moving Ambulances. *Military Medicine*, 183(suppl_1), pp.111–118. Click here to access fulltext (free online as of 24/05/2018)

Palmer, S.J., 2018. Examining the true impact of alcohol on the heart. *Journal of Paramedic Practice*, 10(4), pp.170–172.

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

Patterson, P.D. et al., 2018. Shorter Versus Longer Shift Durations to Mitigate Fatigue and Fatigue-Related Risks in Emergency Medical Services Personnel and Related Shift Workers: A Systematic Review. *Prehospital Emergency Care*, 22(sup1), pp.28–36.

Click <u>here</u> to access fulltext (free online as of 24/05/2018)

Prehospital Emergency Services Current Awareness Update – Issue 59, May 2018

Preston, J. et al., 2018. Occupational therapists and paramedics form a mutually beneficial alliance to reduce the pressure on hospitals: A practice analysis. *British Journal of Occupational Therapy*, p.30802261875741.

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

Sawyer, S. et al., 2018. Paramedics as a New Resource for Women Experiencing Intimate Partner Violence. *Journal of Interpersonal Violence*, p.88626051876936.

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

Sepehrvand, N. et al., 2018. Ambulance use, distance and outcomes in patients with suspected cardiovascular disease: a registry-based geographic information system study. *European Heart Journal: Acute Cardiovascular Care*, p.204887261876987.

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

Shashar, S. et al., 2018. The Association Between Heat Waves and Other Meteorological Parameters and Snakebites: Israel National Study. *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

Smith, C. et al., 2018. Evaluation of a Novel Handoff Communication Strategy for Patients Admitted from the Emergency Department. *Western Journal of Emergency Medicine*, 19(2), pp.372–379. Click <u>here</u> to access fulltext (free online as of 24/05/2018)

Snowdon, K., 2018. Humour in reflective practice. *Journal of Paramedic Practice*, 10(4), pp.144–146 Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Vencloviene, J., Braziene, A. & Dobozinskas, P., 2018. Short-term changes in weather and space weather conditions and emergency ambulance calls for elevated arterial blood pressure. *Atmosphere*, 9(3), p.114.

Click here to access fulltext (free online as of 24/05/2018)

Willis, S. & Mellor, G., 2018. That final fatal error: crew resource management. *International Paramedic Practice*, 8(1), pp.10–13.

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

Wilson, C., 2018. Embrace the evidence or not - a book for the masses. *Journal of Paramedic Practice*, 10(4), pp.173–174.

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

Zhang, W. et al., 2018. Out-of-hospital cardiac arrest with Do-Not-Resuscitate orders signed in hospital: Who are the survivors? *Resuscitation*, 127, pp.68–72.

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

Prehospital Emergency Services Current Awareness Update – Issue 59, May 2018

Prehospital Research - Methods and Discussion

Jafar, A.J.N., 2018. What is positionality and should it be expressed in quantitative studies? *Emergency medicine journal*, 35(5), pp.323–324.

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

Yusuf, H. et al., 2018. Research participation among state and local public health emergency preparedness and response programs. *Public Health*.

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

Diagnosis and Triage

Andersson, H. et al., 2018. The early chain of care in bacteraemia patients: Early suspicion, treatment and survival in prehospital emergency care. *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

Beatty, E. & Archambault, P., 2018. BET 1: Can Salter-Harris type I fractures be diagnosed by ultrasound? *Emergency medicine journal : EMJ*, 35(5), pp.335–336.

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

Bonnesen, K. et al., 2018. Prehospital triage of patients diagnosed with perforated peptic ulcer or peptic ulcer bleeding: an observational study of patients calling 1-1-2. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 26(1), p.25.

Click here to access fulltext (free online as of 24/05/2018)

Cowling, M. & Birt, J., 2018. Pedagogy before Technology: A Design-Based Research Approach to Enhancing Skills Development in Paramedic Science Using Mixed Reality. *Information*, 9(2), p.29. Click here to access fulltext (free online as of 24/05/2018)

El Zahran, T. & El Sayed, M., 2018. Prehospital Ultrasound in Trauma: A Review of Current and Potential Future Clinical Applications. *Journal of Emergencies, Trauma, and Shock*, 11(1), p.4. Click here to access fulltext (free online as of 24/05/2018)

Klein, L. et al., 2018. Emergency Department Frequent Users for Acute Alcohol Intoxication. *Western Journal of Emergency Medicine*, 19(2), pp.398–402.

Click here to access fulltext (free online as of 24/05/2018)

Sinclair, N. et al., 2018. Clinician tasking in ambulance control improves the identification of major trauma patients and pre-hospital critical care team tasking. *Injury*.

Click here to access fulltext-SWASFT Athens required (register here). Click here to access free abstract

St. John, A. et al., 2018. Prehospital Lactate Predicts Need for Resuscitative Care in Non-hypotensive Trauma Patients. Western Journal of Emergency Medicine, 19(2), pp.224–231.

Click here to access fulltext (free online as of 24/05/2018)

van Gaal, S. & Demchuk, A., 2018. Clinical and Technological Approaches to the Prehospital Diagnosis of Large Vessel Occlusion. Stroke, 49(4), pp.1036–1043.

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

Patient Profile

Dialysis Patients

Bartolacci, J. et al., 2018. Burden of Emergency Medical Services Usage by Dialysis Patients. *Prehospital Emergency Care*, pp.1–7.

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

Homeless People

Salhi, B.A. et al., 2018. Homelessness and Emergency Medicine: Furthering the Conversation J. H. Burton, ed. Academic Emergency Medicine.

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

Older People

Gagnon-Roy, M. et al., 2018. Preventing emergency department (ED) visits and hospitalisations of older adults with cognitive impairment compared with the general senior population: what do we know about avoidable incidents? Results from a scoping review. BMJ Open, 8(4), p.e019908. Click <u>here</u> to access fulltext (free online as of 24/05/2018)

Dwyer, R. et al., 2018. Patterns of emergency ambulance use, 2009–13: a comparison of older people living in Residential Aged Care Facilities and the Community. Age and Ageing.

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

Street, M., BERRY, D. & CONSIDINE, J., 2018. Frequent use of emergency departments by older people: a comparative cohort study of characteristics and outcomes. International Journal for Quality in Health Care.

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

Prehospital Emergency Services Current Awareness Update – Issue 59, May 2018

Helicopter Emergency Medical Services

Fahy, A.S. et al., 2018. Early Hospital Discharge After Helicopter Transport of Pediatric Trauma Patients. *Pediatric Emergency Care*, p.1.

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

Hersey, D., Witter, T. & Kovacs, G., 2018. Transport of a Prone Position Acute Respiratory Distress Syndrome Patient. *Air Medical Journal*.

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

Maissan, I.M. et al., 2018. Helicopter Transportation Increases Intracranial Pressure: a Proof-of-Principle Study. *Air Medical Journal*.

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

On-Scene Interventions

Devon Air Ambulance Author Fenwick, R. & Nutbeam, T., 2018. Medical vs. true physical traffic collision entrapment, *Journal of Paramedic Practice*.

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

Deighton, R., 2018. Capnography: monitoring CO2. *Journal of Paramedic Practice*, 10(4), pp.154–156. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Esteves, C. et al., 2018. Severe hypoglycaemia in diabetic patients in Pre-hospital and Emergency Department care: a cross-sectional survey. *BMC Research Notes*, 11(1), p.249.

Click <u>here</u> to access fulltext (free online as of 24/05/2018)

Greene, T.J. et al., 2018. Utilizing Propensity Score Analyses in Prehospital Blood Product Transfusion Studies: Lessons Learned and Moving Toward Best Practice. *Military Medicine*, 183(suppl_1), pp.124–133.

Click here to access fulltext (free online as of 24/05/2018)

Kim, J.G. et al., 2018. Pre-hospital i-gel blind intubation for trauma: a simulation study. *Clinical and Experimental Emergency Medicine*, 5(1), pp.29–34.

Click here to access fulltext (free online as of 24/05/2018)

Kong, V.Y. et al., 2018. Routine cervical spine immobilisation is unnecessary in patients with isolated cerebral gunshot wounds: A South African experience. *Emergency Medicine Australasia*.

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

Lebel, K. et al., 2018. Quantitative Approach Based on Wearable Inertial Sensors to Assess and Identify Motion and Errors in Techniques Used during Training of Transfers of Simulated c-Spine-Injured Patients. *Journal of Healthcare Engineering*, 2018, pp.1–9.

Click here to access fulltext (free online as of 24/05/2018)

Macke, C. et al., 2018. Influence of Entrapment on Prehospital Management and the Hospital Course in Polytrauma Patients: A Retrospective Analysis in Air Rescue. *The Journal of Emergency Medicine*. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Mix, F.M. et al., 2018. Prehospital Blood Product Administration Opportunities in Ground Transport ALS EMS – A Descriptive Study. *Prehospital and Disaster Medicine*, pp.1–7.

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

Moy, R. & Wright, C., 2018. Ketamine for military prehospital analgesia and sedation in combat casualties. *Journal of the Royal Army Medical Corps*, p.jramc-2018-000910. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

Rehn, M. et al., 2018. Effect of Pre-Hospital Red Blood Cell Transfusion on Mortality and Time of Death in Civilian Trauma Patients. *SHOCK*, p.1.

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

Ruelas, O.S. et al., 2018. Analysis of Prehospital Scene Times and Interventions on Mortality Outcomes in a National Cohort of Penetrating and Blunt Trauma Patients. *Prehospital Emergency Care*, pp.1–7.

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

Wahlin, R.R. et al., 2018. Prehospital intubation and outcome in traumatic brain injury-assessing intervention efficacy in a modern trauma cohort. *Frontiers in Neurology*, 9(APR).

Click here to access fulltext (free online as of 24/05/2018)

Ward, C. & Simpson, J., 2018. Improving Prehospital Management of Children With Respiratory Distress. *Clinical Pediatric Emergency Medicine*.

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

Airway Management, Resuscitation & CPR

Aguilar, S. et al., 2018. Addition of Audiovisual Feedback During Standard Compressions Is Associated with Improved Ability. *Western Journal of Emergency Medicine*, 19(2), pp.437–444. Click here to access fulltext (free online as of 24/05/2018)

Berglund, E. et al., 2018. A smartphone application for dispatch of lay responders to out-of-hospital cardiac arrests. *Resuscitation*, 126, pp.160–165.

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

Bødtker, H. & Rosendahl, D., 2018. Correct AED electrode placement is rarely achieved by laypersons when attaching AED electrodes to a human thorax. *Resuscitation*, 0(xxxx), pp.1–2.

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

Bray, J.E. et al., 2018. Oxygen titration after resuscitation from out-of-hospital cardiac arrest: a multi centre, randomised controlled pilot study (the EXACT pilot trial). *Resuscitation*, 0(0).

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

Brinkrolf, P. et al., 2018. Bystander-witnessed cardiac arrest is associated with reported agonal breathing and leads to less frequent bystander CPR. *Resuscitation*, 127, pp.114–118.

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

Champigneulle, B. et al., 2018. Major traumatic complications after out-of-hospital cardiac arrest: Insights from the Parisian registry. *Resuscitation*, 0(0).

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

Djarv, T. et al., 2018. Traumatic cardiac arrest in Sweden 1990-2016 - a population-based national cohort study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 26(1), p.30. Click <u>here</u> to access fulltext (free online as of 24/05/2018)

Gellerfors, M. et al., 2018. Pre-hospital advanced airway management by anaesthetist and nurse anaesthetist critical care teams: a prospective observational study of 2028 pre-hospital tracheal intubations. *British Journal of Anaesthesia*, 120(5), pp.1103–1109.

Click here to access fulltext (free online as of 24/05/2018)

Izawa, J. et al., 2018. Timing of Advanced Airway Management by Emergency Medical Services Personnel Following Out-of-Hospital Cardiac Arrest: A Population-Based Cohort Study. *Resuscitation*, 128, pp.16–23.

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

Liu, J.-Z. et al., 2018. Why might ALS have negative effects on patients with out-of-hospital cardiac arrest? *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

Lockey, D.J. & Crewdson, K., 2018. Pre-hospital anaesthesia: no longer the "poor relative" of high quality in-hospital emergency airway management. *British Journal of Anaesthesia*, 120(5), pp.898–901.

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

Mathiesen, W.T. et al., 2018. Effects of modifiable prehospital factors on survival after out-of-hospital cardiac arrest in rural versus urban areas. *Critical Care*, 22(1), p.99.

Click here to access fulltext (free online as of 24/05/2018)

Nehme, Z. et al., 2018. Trends in the incidence and outcome of paediatric out-of-hospital cardiac arrest: a 17-year observational study. *Resuscitation*, 0(0).

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

Owen, A.D.D. et al., 2018. Association of race and socioeconomic status with Automatic External Defibrillator training prevelance in the United States. *Resuscitation*, 127, pp.100–104.

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

Sato, R. et al., 2018. Impact of rapid response car system on ECMO in out-of-hospital cardiac arrest: A retrospective cohort study. *The American journal of emergency medicine*, 36(3), pp.442–445. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Sidebottom, D.B. et al., 2018. Saving lives with public access defibrillation: A deadly game of hide and seek. *Resuscitation*, 128(0), pp.93–96.

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

New Ebooks and other resources

New ejournals

- Academic Emergency Medicine 1997-
- Clinical Teacher 2004-
- Emergency Medicine Australasia 2005-
- Health Services Research 2002-

SWASFT Athens account required (register here)

New ebooks

- Acute and critical care nursing at a glance.
- On leadership for healthcare.

SWASFT Athens account required (register <u>here</u>)

Visit http://discoverylibrary.org/swasft to see all the information resources available to you including:

-ebooks
-databases
-journals
-point of care tools
-apps

Feedback to

library.mailbox@nhs.net

Discovery Library, Derriford Hospital, Plymouth-lead library for SWASFT