



Prehospital Emergency Services Current Awareness Update Issue 54, December 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 54, December 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

Abella, A. et al., 2017. Weekend effect: a great problem with a potential solution. Critical Care, 21(1), p.278. Click here to access fulltext (free online as of 12/12/2017)

Ablard, S. et al., 2017. 23 Patient and staff perspectives on the reasons for increasing emergency department attendances. Emergency medicine journal: EMJ, 34(12), p.A876.

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Anon, 2017. Continuing Professional Development: Using clinical decision making and reflection strategies to support practice. Journal of Paramedic Practice, 9(11), pp.1–5.

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Anon, 2017. Independent prescribing by paramedics under consideration. The Pharmaceutical Journal. Click here to access fulltext (free online as of 12/12/2017)

Bobrovitz, N., Lasserson, D.S. & Briggs, A.D.M., 2017. Who breaches the four-hour emergency department wait time target? A retrospective analysis of 374,000 emergency department attendances between 2008 and 2013 at a type 1 emergency department in England. BMC Emergency Medicine, 17(1), p.32.

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Bowen, L.M., Williams, B. & Stanke, L., 2017. Professionalism among paramedic students: achieving the measure or missing the mark? Advances in Medical Education and Practice, Volume 8, pp.711–719. Click here to access fulltext (free online as of 12/12/2017)

Callan, C. & Boyle, A., 2017. 29 Has the licensing ACT 2003 affected levels of violence in England and Wales? A systematic review of hospital and police studies. Emergency medicine journal: EMJ, 34(12), p.A879. Click here to access fulltext (conference abstract)(free online as of 12/12/2017)

Corman, M.K., 2018. Titrating the Rig: How Paramedics Work in and on Their Ambulance. Qualitative Health Research, 28(1), pp.47–59.

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Cowan, H., 2017. The difficult choice between resuscitation and letting go. Journal of Paramedic Practice, 9(11), pp.466–468.

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Davison, A., Boyle, A. & Hayhurst, C., 2017. 44 Quantifying the 5 year mortality of frequent attenders to the emergency department. Emergency Medicine Journal, 34(12), p.A889.3-A890.

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Egerton-Warburton, A.P.D. et al., 2017. Alcohol-related harm in emergency departments: a prospective, multicentre study. Addiction.

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Givati, A., Markham, C. & Street, K., 2017. The bargaining of professionalism in emergency care practice: NHS paramedics and higher education. Advances in Health Sciences Education, pp.1–17.

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Haspray, J., 2017. Paramedic Clinical Ladder: Development and Implementation at 1 Institution. Air Medical Journal, 36(6), pp.300–301.

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Kalyani, M.N. et al., 2017. Perspectives of Patient Handover among Paramedics and Emergency Department Members; a Qualitative Study. Emergency, 5(1), p.76.

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Katari, R., 2017. Regarding wellness and burnout initiatives in emergency medicine. Academic Emergency Medicine.

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Mikolaizak, A.S. et al., 2017. Adherence to a multifactorial fall prevention program following paramedic care: Predictors and impact on falls and health service use. Results from an RCT a priori subgroup analysis. Australasian Journal on Ageing.

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Pope, I. et al., 2017. 20 Risk factors for admission at three, urban emergency departments in england: a cross-sectional analysis of attendances over one month. Emergency Medicine Journal, 34(12), p.A875.1-A875. Click <a href="https://example.com/here-to-access-fulltext-conference-abstract-">here-to-access-fulltext-conference-abstract-</a> (free online as of 12/12/2017)

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Vencloviene, J. et al., 2017. Associations of short-term exposure to ambient air pollutants with emergency ambulance calls for the exacerbation of essential arterial hypertension. International Journal of Environmental Health Research, pp.1–16.

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Verma, A.A. et al., 2017. Paramedic-Initiated Home Care Referrals and Use of Home Care and Emergency Medical Services. Prehospital Emergency Care, pp.1–6.

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Williams, B. et al., 2017. Exploration of difficult conversations among Australian paramedics. Nursing & Health Sciences, 19(3), pp.358–365.

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#### Prehospital Research – Methods and Discussion

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Jacob, V., Belsky, J. & Cone, D., 2017. The decline of basic science publications in major emergency medicine journals and research conferences. Academic Emergency Medicine.

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Keijzers, G., 2017. Importance of uniform data collection and reporting in research: A call for a minimum dataset in sepsis. EMA - Emergency Medicine Australasia, 29(6), pp.614–615.

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Sampson, F., O'cathain, A. & Goodacre, S., 2017. 28 Are we measuring what we think we are measuring? Qualitative research exploring the role of the 0-10 pain score within the adult emergency department. Emergency medicine journal: EMJ, 34(12), p.A879.

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#### Diagnosis and Triage

\*\*\*SWASFT Author\*\*\*\* Phillips, J., 2017. "Have you had Viagra within the past 24 hours?" Journal of Paramedic Practice, 9(11), pp.490–494.

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Ängerud, K.H. et al., 2017. Differences in symptoms, first medical contact and pre-hospital delay times between patients with ST- and non-ST-elevation myocardial infarction. European Heart Journal: Acute Cardiovascular Care, p.204887261774173.

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Appelbaum, N. et al., 2018. Paediatric weight estimation by age in the digital era: optimising a necessary evil. Resuscitation, 122, pp.29–35.

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Rodriguez-Luna, D. et al., 2017. Prehospital Systolic Blood Pressure Is Related to Intracerebral Hemorrhage Volume on Admission. Stroke, p.STROKEAHA.117.018485.

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#### **Patient Profile**

#### Children

Lee, T.S. et al., 2017. Pediatric Lawnmower Injuries. Pediatric Emergency Care, 33(12), p.1. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

Szarpak, Ł. et al., 2017. Airtraq Laryngoscope Versus the Conventional Macintosh Laryngoscope During Pediatric Intubation Performed by Nurses. Pediatric Emergency Care, 33(11), pp.735–739.

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Takinami, Y. & Maeda, S., 2017. Ambulance dispatches to schools during a 5-year period in Fukui Prefecture. Acute Medicine & Surgery, 4(1), pp.46–51.

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Ward, C. et al., 2017. 53 Piloting patch - providing assessment and treatment for children at home - and piecing together what works. Emergency medicine journal: EMJ, 34(12), pp.A895–A897.

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#### **Older People**

Ballham, S. et al., 2017. 36 Frailty flying squad: an emergency department focussed acute care of the elderly service DR genevieve robson, royal united hospital NHS foundation trust. Emergency medicine journal: EMJ, 34(12), pp.A885–A886.

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Paul, S. et al., 2017. Trends in fall-related ambulance use and hospitalisation among older adults in NSW, 2006–2013: a retrospective, population-based study. Public Health Research & Practice, 27(4). Click here to access fulltext (free online as of 12/12/2017)

Wen, Y.-C., Chen, L.-K. & Hsiao, F.-Y., 2017. Predicting mortality and hospitalization of older adults by the multimorbidity frailty index. A. Bayer, ed. PloS one, 12(11), p.e0187825.

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#### **Transgender**

Chisolm-Straker, M. et al., 2017. Transgender and Gender-Nonconforming Patients in the Emergency Department: What Physicians Know, Think, and Do. Annals of Emergency Medicine.

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#### Helicopter Emergency Medical Services

Burns, B.J. et al., 2017. Analysis of Out-of-Hospital Pediatric Intubation by an Australian Helicopter Emergency Medical Service. Annals of Emergency Medicine, 70(6), p.773–782.e4.

Chang, J.C.-Y. et al., 2017. Clinical predictors of outcomes in patients undergoing emergency air medical transport from Kinmen to Taiwan. Medicine, 96(44), p.e8440.

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Heschl, S. et al., 2017. Prehospital transfusion of red cell concentrates in a paramedic-staffed helicopter emergency medical service. Emergency Medicine Australasia.

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Müllner, R. et al., 2017. Airway management at the Swiss air rescue organisation Rega – A retrospective study evaluating 930 patients of the main Swiss Helicopter Emergency Medical System (HEMS). Trends in Anaesthesia and Critical Care, 16, p.17.

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Rehn, M. et al., 2017. Emergency versus standard response: time efficacy of London's Air Ambulance rapid response vehicle. Emergency Medicine Journal, 34(12), pp.806–809.

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#### **On-Scene Interventions**

Agri, F. et al., 2017. Association of pelvic fracture patterns, pelvic binder use and arterial angio-embolization with transfusion requirements and mortality rates; a 7-year retrospective cohort study. BMC Surgery, 17(1), p.104.

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Alam, N. et al., 2017. Prehospital antibiotics in the ambulance for sepsis: a multicentre, open label, randomised trial. The Lancet Respiratory Medicine, pp.10404–1310.

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Benfield, J. & Musto, A., 2017. Intranasal Therapy to Stop Status Epilepticus in Prehospital Settings. Drugs in R&D

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Cester-Martínez, A. et al., 2017. Inhaled Loxapine for the Treatment of Psychiatric Agitation in the Prehospital Setting: A Case Series. Clinical Practice and Cases in Emergency Medicine, 1(4), pp.345–348.

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Hansen, R. et al., 2017. Data on association between QRS duration on prehospital ECG and mortality in patients with confirmed STEMI. Data in Brief, 15, pp.12–17.

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Haverkamp, F.J.C., Giesbrecht, G.G. & Tan, E.C.T.H., 2017. The prehospital management of hypothermia — An up-to-date overview. Injury.

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Udy, A.A., Smith, K. & Bernard, S., 2017. Timing of antibiotics in the management of community-acquired sepsis: Can a randomised controlled trial of prehospital therapy provide answers? Emergency Medicine Australasia.

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Vincent, J.-L., 2017. Antibiotic administration in the ambulance? The Lancet Respiratory Medicine. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Weant, K.A., Linder, L.M. & Ross, C.A., 2017. Ketamine for the acute management of excited delirium and agitation in the prehospital setting. Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy.

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#### Airway Management, Resuscitation & CPR

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