



Prehospital Emergency Services Current Awareness Update Issue 74, Aug 2019

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 74, Aug 2019

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

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Prehospital Practitioners – Roles, Professional Practice and Development

*** SWASFT context*** Reich, T. and Budka, M. (2019) 'Proof of concept for a syndromic surveillance system based on routine ambulance records in the South West of England, for the influenza season 2016/2017', British Paramedic Journal, 4(2), pp. 22–30.

Available <u>here</u> to College of Paramedics members. Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext

Abrashkin, K. A. *et al.* (2019) 'Community paramedics treat high acuity conditions in the home: a prospective observational study', *BMJ Supportive & Palliative Care*, p. bmjspcare-2018-001746. Click <u>here</u> to access fulltext (free online as of 02/10/2019)

Agarwal, G. et al. (2019) 'Reducing 9-1-1 Emergency Medical Service Calls By Implementing A Community Paramedicine Program For Vulnerable Older Adults In Public Housing In Canada: A Multi-Site Cluster Randomized Controlled Trial', *Prehospital Emergency Care*, 23(5), pp. 718–729. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Al-Ani, A. *et al.* (2019) 'Admission and treatment at a weekend is not associated with worse outcomes for patients admitted with fractured neck of femur', *Trauma*, 21(4), pp. 288–294. Click here to access fulltext (free online as of 02/10/2019)

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Bellini, C. et al. (2019) 'Rethinking the neonatal transport ground ambulance', Italian Journal of Pediatrics, 45(1), pp. 97–97.

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Bitan, Y., Ramey, S. and Milgram, P. (2019) 'Ergonomic design of new paramedic response bags', *Applied Ergonomics*, 81, pp. 102890–102890.

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Colineaux, H. et al. (2019) 'Why are people increasingly attending the emergency department? A study of the French healthcare system.', *Emergency medicine journal : EMJ*, 36(9), pp. 548–553. 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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Hancox, J. M. *et al.* (2019) 'Patient-centred outcomes for prehospital trauma trials: A systematic review and patient involvement exercise', *Trauma*, 21(4), pp. 259–271.

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He, Z. *et al.* (2019) 'Using spatial regression methods to evaluate rural emergency medical services (EMS).', *The American journal of emergency medicine*, 37(9), pp. 1633–1642.

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Hirano, Y., Abe, T. and Tanaka, H. (2019) 'Efficacy of the presence of an emergency physician in prehospital major trauma care: A nationwide cohort study in Japan.', *The American journal of emergency medicine*, 37(9), pp. 1605–1610.

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Juliá-Sanchis, R. et al. (2019) 'Measuring the levels of burnout syndrome and empathy of Spanish emergency medical service professionals.', *Australasian emergency care*, 22(3), pp. 193–199. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

Khazaei, A., Esmaeili, M. and Navab, E. (2019) 'The Most and Least Stressful Prehospital Emergencies from Emergency Medical Technicians' View Point; a Cross-Sectional Study.', *Archives of academic emergency medicine*, 7(1), pp. e20–e20.

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Maria, S. et al. (2019) 'Development of a tool to monitor paramedic clinical placements: a case study of innovation overcoming tradition', Australasian Journal of Paramedicine, 16(0). Click here to access fulltext (free online as of 02/10/2019)

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Pruyn, S. et al. (2019) 'Quality Assessment of Expired Naloxone Products from First-Responders' Supplies', *Prehospital Emergency Care*, 23(5), pp. 647–653.

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Roden-Foreman, J. W. et al. (2019) 'Rethinking the definition of major trauma', *Journal of Trauma and Acute Care Surgery*, 87(3), pp. 658–665.

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Prehospital Research – Methods and Discussion

Charlton, K., Franklin, J. and McNaughton, R. (2019) 'Phenomenological study exploring ethics in prehospital research from the paramedic's perspective: experiences from the Paramedic-2 trial in a UK ambulance service.', *Emergency medicine journal: EMJ*, 36(9), pp. 535–540.

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Diagnosis and Triage

Antipova, D. et al. (2019) 'Diagnostic accuracy of clinical tools for assessment of acute stroke: a systematic review', *BMC Emergency Medicine*, 19(1), pp. 49–49.

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Buswell, L., Hayes, A. and Baombe, J. (2019) 'BET 2: Predicting the need for endotracheal intubation in poisoned patients.', *Emergency medicine journal : EMJ*, 36(9), pp. 573–575.

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Dickson, R. L. *et al.* (2019) 'Performance of the RACE Score for the Prehospital Identification of Large Vessel Occlusion Stroke in a Suburban/Rural EMS Service', *Prehospital Emergency Care*, 23(5), pp. 612–618.

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Yan, B. W. and Hsia, R. Y. (2019) 'Unexpected Deaths Among Patients With Normal Initial Vital Signs', *Academic Emergency Medicine*. Edited by R. T. Griffey, p. acem.13833-acem.13833. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Patient Profile

Ahmed, N. and Greenberg, P. (2019) 'Examining outcomes in cases of **elderly patients** who fell from ground level at home with normal vital signs at the scene', *Journal of Trauma and Acute Care Surgery*, 87(3), pp. 672–677.

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Gorlicki, J. et al. (2019) 'Low compliance to guidelines in the management of acute heart failure in emergency elderly patients', European Journal of Emergency Medicine, 26(5), pp. 379–380. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

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Helicopter Emergency Medical Services

Hakim, R. et al. (2019) 'Does helicopter transport delay prehospital transfer for STEMI patients in rural areas? Findings from the CRAC France PCI registry', European Heart Journal: Acute Cardiovascular Care, pp. 204887261984897–204887261984897.

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Schulz-Stübner, S. *et al.* (2019) 'Is UV-C "light wand" mobile disinfection in air ambulance helicopters effective?', *Infection Control & Hospital Epidemiology*, pp. 1–4. Click here to access fulltext (free online as of 02/10/2019)

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On-Scene Interventions

Bosson, N. et al. (2019) 'Safety and Effectiveness of Field Nitroglycerin in Patients with Suspected ST Elevation Myocardial Infarction', *Prehospital Emergency Care*, 23(5), pp. 603–611.

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Calabró, L. et al. (2019) 'Effect of different methods of cooling for targeted temperature management on outcome after cardiac arrest: a systematic review and meta-analysis', *Critical Care*, 23(1), pp. 285–285.

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Fidacaro, G. A. *et al.* (2019) 'Do Patients Require Emergency Department Interventions After Prehospital Naloxone?', *Journal of Addiction Medicine*, pp. 1–1.

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Shah Jahan, M. Y. *et al.* (2019) 'Administration of tranexamic acid for victims of severe trauma within pre-hospital care ambulance services (PHCAS) in Malaysia.', *The Medical journal of Malaysia*, 74(4), pp. 300–306.

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Sobieraj, D. M. *et al.* (2019) 'Comparative Effectiveness of Analgesics to Reduce Acute Pain in the Prehospital Setting', *Prehospital Emergency Care*, pp. 1–76.

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Tran, K. and Mierzwinski-Urban, M. (2019) Ketamine for Pharmacological Management of Aggression and Agitation in Pre-Hospital Settings: A Review of Comparative Clinical Effectiveness, Safety and Guidelines. Canadian Agency for Drugs and Technologies in Health.

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Airway Management, Resuscitation & CPR

*** SWASFT input*** von Vopelius-Feldt, J., Morris, R. W. and Benger, J. (2019) 'The effect of prehospital critical care on survival following out-of-hospital cardiac arrest: A prospective observational study', *Resuscitation*.

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Abazi, L. *et al.* (2019) 'Long-term survival in out-of-hospital cardiac arrest patients treated with targeted temperature control at 33 °C or 36 °C: A national registry study.', *Resuscitation*, 143, pp. 142–147.

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Beck, L. R. *et al.* (2019) 'Effectiveness of Prehospital Dual Sequential Defibrillation for Refractory Ventricular Fibrillation and Ventricular Tachycardia Cardiac Arrest', *Prehospital Emergency Care*, 23(5), pp. 597–602.

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Doan, T. N. *et al.* (2019) 'Prehospital ST-Segment Elevation Myocardial Infarction (STEMI) in Queensland, Australia: Findings from 11 Years of the Statewide Prehospital Reperfusion Strategy', *Prehospital Emergency Care*, pp. 1–9.

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Felder, S., VanAarsen, K. and Davis, M. (2019) 'Decreasing time to first shock: Routine application of defibrillation pads in prehospital STEMI', *CJEM*, pp. 1–4.

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González-Otero, D. M. *et al.* (2019) 'Association of chest compression and recoil velocities with depth and rate in manual cardiopulmonary resuscitation.', *Resuscitation*, 142, pp. 119–126.

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