



**Prehospital Emergency Services  
Current Awareness Update  
Issue 67, January 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 67, January 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:

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**\*\*SWASFT Author\*\*** Black, S., & Frampton, I. (2019). PP26 Convey or not convey? Does crew skill level predict hospital conveyance rate in a UK regional NHS ambulance service trust? *Emerg Med J*, 36(1), e10–e11.

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**\*\*SWASFT Author\*\*** Black, S., & Frampton, I. (2019). PP25 Decision-making in ambulance service non-conveyance – the DMASC survey. *Emerg Med J*, 36(1), e10–e10.

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**\*\*SWASFT Author\*\*** Williams, V., LaFlamme-Williams, Y., McNee, K., Morgan, H., Morrison, Z., Potts, H. W., ... Porter, A. (2019). PP18 Implementation of electronic patient clinical records in ambulances in the UK: a national survey. *Emerg Med J*, 36(1), e7–e8.

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**\*\*SWASFT setting\*\*** Thomas, M., Voss, S., Benger, J., Kirby, K., & Nolan, J. P. (2019). Cluster randomised comparison of the effectiveness of 100% oxygen versus titrated oxygen in patients with a sustained return of spontaneous circulation following out of hospital cardiac arrest: a feasibility study. PROXY: post ROSC OXYgenation study. *BMC Emergency Medicine*, 19(1), 16.

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Agarwal, G., Angeles, R., Pirrie, M., McLeod, B., Marzanek, F., Parascandalo, J., & Thabane, L. (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*, 1–16.

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Agarwal, G., Pirrie, M., McLeod, B., Angeles, R., Tavares, W., Marzanek, F., & Thabane, L. (2019). Rationale and methods of an Evaluation of the Effectiveness of the Community Paramedicine at Home (CP@home) program for frequent users of emergency medical services in multiple Ontario regions: a study protocol for a randomized controlled trial. *Trials*, 20(1), 75.

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Armstrong, S., Langlois, A., & Siriwardena, N. (2019). PP8 Paramedic views and experiences of the ethical considerations in ambulance based clinical trials: an interview study. *Emerg Med J*, 36(1), e4–e4.

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Brown, J. F., Raven, M. C., Tangherlini, N. L., & Kennedy Hall, M. (2019). Frequent Users of 9-1-1 Emergency Medical Services: Sign of Success or Symptom of Impending Failure? *Prehospital Emergency Care*, 23(1), 94–96.

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Cadilhac, D. A., Grimley, R., Bladin, C. F., Donnan, G. A., Hill, K., Levi, C. R., ... Kilkenney, M. F. (2019). Abstract TP283: Ambulance Service Use and Associations With Hospital Care and 90-day Outcomes for Acute Stroke: The Australian Stroke Clinical Registry (AuSCR). *Stroke*, 50(Suppl\_1).

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Du, B., Boileau, M., Wierts, K., Hignett, S., Fischer, S., & Yazdani, A. (2019). Existing science on human factors and ergonomics in the design of ambulances and EMS equipment. *Prehospital Emergency Care*, 1–20.

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Ebadi, A., Froutan, R., & Malekzadeh, J. (2019). The design and psychometric evaluation of the emergency medical services resilience scale (EMSRS). *International Emergency Nursing*, 42, 12–18.

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Evans, B., Brown, A., Bulger, J., Fegan, G., Ford, S., Guy, K., ... Snooks, H. (2019). PP30 'I can't remember' – patients views of receiving pain management from paramedics for suspected hip fracture. *Emerg Med J*, 36(1), e12–e12.

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Evans, B., Brown, A., Bulger, J., Fegan, G., Ford, S., Guy, K., ... Snooks, H. (2019). PP29 Paramedics' experiences of administering fascia iliaca compartment block to patients with suspected hip fracture. *Emerg Med J*, 36(1), e11–e12.

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Fitzpatrick, D., Maxwell, D., & Craigie, A. (2019). PP14 The feasibility and acceptability of a novel low tech intervention to improve pre-hospital data recording for pre-alert and handover to the emergency department. *Emerg Med J*, 36(1), e6–e6.

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Friedson, A. I. (2018). Income and Ambulance Response Time Inequality. *JAMA Network Open*, 1(7), e185201.

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Gibson, C. V. (2019). Emergency medical services oxygen equipment: a fomite for transmission of MRSA? *Emergency Medicine Journal : EMJ*, 36(2), 89–91.

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Han, X., Lowry, T. Y., Loo, G. T., Rabin, E. J., Grinspan, Z. M., Kern, L. M., ... Shapiro, J. S. (2019). Expanding Health Information Exchange Improves Identification of Frequent Emergency Department Users. *Annals of Emergency Medicine*, 73(2), 172–179.

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Miller, J., & Paramedic. (2019). PP10 'The ones that don't say'; challenges in managers identifying potentially traumatised ambulance staff. *Emerg Med J*, 36(1), e4–e5.

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Phung, V.-H., Trueman, I., Togher, F., Ørner, R., & Siriwardena, N. (2019). PP7 Perceptions and experiences of being a community first responder: interview study. *Emerg Med J*, 36(1), e3–e3.

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Slope, R., Pope, C., Crouch, R., & Bernthal, E. M. (2019). Military and civilian handover communication in emergency care: how does it differ? *Journal of Paramedic Practice*, 11(2), 66–73.

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Swinton, P., Corfield, A. R., Moultrie, C., Percival, D., Proctor, J., Sinclair, N., & Perkins, Z. B. (2018). Impact of drug and equipment preparation on pre-hospital emergency Anaesthesia (PHEA) procedural time, error rate and cognitive load. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 26(1), 82.

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Tang, S., Dovey, G., & Mapstone, J. (2019). Homelessness: implications for paramedic practice. *Journal of Paramedic Practice*, 11(2), 52–53.

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Watanabe, B. L., Patterson, G. S., Kempema, J. M., Magallanes, O., & Brown, L. H. (2019). Is Use of Warning Lights and Sirens Associated With Increased Risk of Ambulance Crashes? A Contemporary Analysis Using National EMS Information System (NEMSIS) Data. *Annals of Emergency Medicine*.  
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## Prehospital Research – Methods and Discussion

Boudreaux, E. D., Higgins, S. E., Reznik-Zellen, R., Wang, B., & Volturo, G. (2019). Scholarly productivity and impact: Developing a quantifiable, norm-based benchmarking methodology for academic emergency medicine. *Academic Emergency Medicine*.  
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Brown, J., Lane, A., Cooper, C., & Vassar, M. (2018). The Results of Randomized Controlled Trials in Emergency Medicine Are Frequently Fragile. *Annals of Emergency Medicine*, 0(0).  
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Bulger, J., Rees, N., Snooks, H., Fegan, G., Ford, S., Evans, B., & Longo, M. (2019). 03 The use of scratchcards for allocation concealment and treatment allocation in a prehospital randomised controlled trial. *Emerg Med J*, 36(1), e2–e2.  
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Wihlborg, J., Edgren, G., Johansson, A., Sivberg, B., & Gummesson, C. (2019). Using the case method to explore characteristics of the clinical reasoning process among ambulance nurse students and professionals. *Nurse Education in Practice*, 35, 48–54.

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## Diagnosis and Triage

Afreen, E., Castonguay, A. C., Shawver, J., Salahuddin, H., Korsnack, A., Dawod, G., ... Jumaa, M. A. (2019). Abstract TP271: Long-term Results of an EMS-driven Rapid Arterial occlusion Evaluation (RACE) Protocol for Triage of Acute Strokes. *Stroke*, 50(Suppl\_1).

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Bosch, N. A., Cohen, D. M., & Walkey, A. J. (2019). Risk Factors for New-Onset Atrial Fibrillation in Patients With Sepsis. *Critical Care Medicine*, 47(2), 280–287.

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Flynn, D., Rodgers, H., & Price, C. (2019). 01 Development and validation of a pragmatic prehospital tool to identify stroke MIMIC patients. *Emerg Med J*, 36(1), e1–e1.

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Gill, R., de la Pena, P., Ray, J., Eriksson, N., Durazo-Arvizu, R., Schneck, M., ... Ruland, S. (2019). Abstract WP326: Factors in Acute Ischemic Stroke Predicting Pre-Hospital Notification by Emergency Medical Services. *Stroke*, 50(Suppl\_1).

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Iversen, A. K. S., Kristensen, M., Østervig, R. M., Køber, L., Sölétormos, G., Lundager Forberg, J., ... Iversen, K. K. (2019). A simple clinical assessment is superior to systematic triage in prediction of mortality in the emergency department. *Emergency Medicine Journal : EMJ*, 36(2), 66–71.  
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Johannesdottir, U., Jonsdottir, G. M., Johannesdottir, B. K., Heimisdottir, A. A., Eythorsson, E., Gudbjartsson, T., & Mogensen, B. (2019). Penetrating stab injuries in Iceland: a whole-nation study on incidence and outcome in patients hospitalized for penetrating stab injuries. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 7.  
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Ogle, K. L. (2019). Abstract TMP67: Prehospital Screening for Large Vessel Occlusion and Bypass to Endovascular Stroke Centers: Using the Ambulance Clinical Triage for Acute Stroke Treatment Scale With Adaptation From DAWN and DEFUSE-3 Trials. *Stroke*, 50(Suppl\_1).  
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Oostema, J. A., Chasse, T., Baer, W., Edberg, A., & Reeves, M. (2019). Abstract TP278: Paramedic Ischemic Stroke Recognition Predicts Favorable Outcomes. *Stroke*, 50(Suppl\_1).  
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Robinson, S. N., Ido, M. S., & Bayakly, R. (2019). Abstract 171: Stroke Identification by Emergency Medical Services: Determinants and its Impact on In-Patient Care. *Stroke*, 50(Suppl\_1).  
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Rostanski, S. K., Kummer, B. R., Miller, E. C., Marshall, R. S., Williams, O., & Willey, J. Z. (2019). Impact of Patient Language on Emergency Medical Service Use and Prenotification for Acute Ischemic Stroke. *The Neurohospitalist*, 9(1), 5–8.  
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Shkirkova, K., Chueng, S., McMullan, J., Saver, J. L., Liebeskind, D., Conwit, R., ... Sanossian, N. (2019). Abstract TP276: Comparative Performance of for Paramedic Stroke Severity Assessment Scales of Stroke Severity in Assessing Stroke Severity and Predicting Long-Term Functional Outcome. *Stroke*, 50(Suppl\_1).  
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Shkirkova, K., Sabra, M., Saver, J., Liebeskind, D. S., Hamilton, S., Starkman, S., & Sanossian, N. (2019). Abstract WP292: Differential Ability of Prehospital Large Vessel of Occlusion Scales to Identify Intracranial Hemorrhage. *Stroke*, 50(Suppl\_1).  
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## Patient Profile

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Lord, B., Reed, R., & Crimmins, G. (2019). 02 Women's experience of unplanned out-of-hospital birth in paramedic care. *Emerg Med J*, 36(1), e1–e2.

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Venema, E., Lingsma, H. F., Chalos, V., Mulder, M. J. H. L., Lahr, M. M. H., van der Lugt, A., ... Roozenbeek, B. (2019). Personalized Prehospital Triage in Acute Ischemic Stroke. *Stroke*, 50(2), 313–320.

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## Helicopter Emergency Medical Services

Homma, H., Niiyama, Y., Sonoda, H., Himuro, N., & Yamakage, M. (2019). The Impact of Air Transport for Acute Coronary Syndrome Patients. *Air Medical Journal*, 0(0).

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Rasmussen, K., Langdalen, H., Sollid, S. J. M., Abrahamsen, E. B., Sørskår, L. I. K., Bondevik, G. T., & Abrahamsen, H. B. (2019). Training and assessment of non-technical skills in Norwegian helicopter emergency services: a cross-sectional and longitudinal study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 1.

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Yao, H., Samoukovic, G., Farias, E., Cimone, S., Churchill-Smith, M., & Jayaraman, D. (2019). Safety and Flight Considerations for Mechanical Circulatory Support Devices During Air Medical Transport and Evacuation: A Systematic Narrative Review of the Literature. *Air Medical Journal*.

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## On-Scene Interventions

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