



**Prehospital Emergency Services
Current Awareness Update
Issue 43, Jan 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 43, Jan 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)

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Abdulwahid, M., Turner, J., & Mason, S. (2016). ACCIDENT & EMERGENCY PERFORMANCE AND SENIOR DOCTOR INITIAL ASSESSMENT MODEL; NATIONAL DATA ANALYSIS FOR ENGLISH NHS HOSPITAL TRUSTS. *Emergency Medicine Journal*, 33(12), 929.1–929.

Click [here](#) to access fulltext – conference abstract (free online as of 09/01/2017)

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Bein, K. J., Berendsen Russell, S., Muscatello, D., Chalkley, D., Ivers, R., & Dinh, M. M. (2016). Feeling the HEAT: Using Hourly Emergency Activity Tracking to demonstrate a novel method of describing activity and patient flow. *Emergency Medicine Australasia*.

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Chapman, S. A., Crowe, R. P., & Bentley, M. A. (2016). Recruitment and Retention of New Emergency Medical Technician (EMT)-Basics and Paramedics. *Prehospital and Disaster Medicine*, 31(S1), S70–S86.

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Chokotho, L., Mulwafu, W., Singini, I., Njalale, Y., Maliwichi-Senganimalunje, L., & Jacobsen, K. H. (2016). First Responders and Prehospital Care for Road Traffic Injuries in Malawi. *Prehospital and Disaster Medicine*, 1–6.

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Donovan, C. M., Bryczkowski, C., McCoy, J., Tichauer, M., Eisenstein, R., Bucher, J., & Chapleau, W. (2017). *Organization and Operations Management at the Explosive Incident Scene. Annals of Emergency Medicine* (Vol. 69).

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Durham, M., Faulkner, M., & Deakin, C. (2016). Targeted response? An exploration of why ambulance services find government targets particularly challenging. *British Medical Bulletin*, 120(1), 35–42.

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Elcin, M., Onan, A., Odabasi, O., Saylam, M., Ilhan, H., Daylan Kockaya, P., ... Nacar, O. A. (2016). Developing a Simulation-Based Training Program for the Prehospital Professionals and Students on the Management of Middle East Respiratory Syndrome. *Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare*, 11(6), 394–403.

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Girrbach, F. F., Bernhard, M., Wessel, M., Gries, A., & Bercker, S. (2016). Practical training for paramedics Practical training for paramedics (Die praktische Ausbildung von Notfallsanitätern) *Der Anaesthetist*.

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Huff, C. (2017). Paramedicine Programs Making House Calls. *Annals of Emergency Medicine*, 69(1), A13–A16.

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Lacy, C. R., Ballagh, R., Donovan, C. M., & Bucher, J. (2017). Management of Explosive Incidents: Overview of the Project and Summary of Best Practices Consensus Statements of the Expert Panel. *Annals of Emergency Medicine*, 69(1), S1–S3.

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Nugus, P., McCarthy, S., Holdgate, A., Braithwaite, J., Schoenmakers, A., & Wagner, C. (2016). Packaging Patients and Handing Them Over: Communication Context and Persuasion in the Emergency Department. *Annals of Emergency Medicine*.

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Pladec, B. M. le, Menoret, R., & Rodes, R. (2016). Recruitment and training of prehospital emergency care nurses in Paris. *La Revue de l'Infirmière*, 65(225), 31–33.

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Ranse, J., Hutton, A., Keene, T., Lenson, S., Luther, M., Bost, N., ... Burke, B. (2016). Health Service Impact from Mass Gatherings: A Systematic Literature Review. *Prehospital and Disaster Medicine*, 1–7.

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Sun, K. M., Song, K. J., Shin, S. Do, Tanaka, H., Shaun, G. E., Chiang, W.-C., ... Holmes, J. F. (2016). Comparison of Emergency Medical Services and Trauma Care Systems Among Pan-Asian Countries: An International, Multicenter, Population-Based Survey. *Prehospital Emergency Care*, 1–10.

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Prehospital Research – Methods and Discussion

Ahmad, F. A., Schwartz, H., Browne, L. R., Lassa-Claxton, S., Wallendorf, M., Lerner, E. B., ... Leonard, J. C. (2016). Methods for Collecting Paired Observations from Emergency Medical Services and Emergency Department Providers for Pediatric Cervical Spine Injury Risk Factors. *Academic Emergency Medicine*.

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Rinderknecht, A. S., Dyas, J. R., Kerrey, B. T., Geis, G. L., Ho, M. H., & Mittiga, M. R. (2016). Studying the Safety and Performance of Rapid Sequence Intubation: Data Collection Method Matters. *Academic Emergency Medicine*, 38(1), 42–49.

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Flottemesch, T. J., Raetzman, S., Heslin, K. C., Fingar, K., Coffey, R., Barrett, M., & Moy, E. (2016). Age-Related Disparities in Trauma Center Access for Severe Head Injuries Following the Release of the Updated Field Triage Guidelines. *Academic Emergency Medicine*.

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Hammock, A., Palermo, T., Keogler, R., Francois, P., Schiavone, F., & Taira, B. (2017). Evaluation of a short intervention on screening for intimate partner violence in an ED. *The American Journal of Emergency Medicine*, 35(1), 171–173.

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Kolinsky, D., Keim, S. M., Cohn, B. G., Schwarz, E. S., & Yealy, D. M. (2017). Is a Prehospital Treat and Release Protocol for Opioid Overdose Safe? *The Journal of Emergency Medicine*.

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Novosad, S. A., Sapiano, M. R. P., Grigg, C., Lake, J., Robyn, M., Dumyati, G., ... Epstein, L. (2016). Vital Signs: Epidemiology of Sepsis: Prevalence of Health Care Factors and Opportunities for Prevention. *MMWR. Morbidity and Mortality Weekly Report*, 65(33), 864–9.

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Potter, B. J., Matteau, A., Mansour, S., Naim, C., Riahi, M., Essiambre, R., ... Gobeil, F. (2017). Sustained Performance of a “Physicianless” System of Automated Prehospital STEMI Diagnosis and Catheterization Laboratory Activation. *Canadian Journal of Cardiology*, 33(1), 148–154.

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Reed, M., Gibson, L., Black, P., Dewar, A., Clegg, G., & Short, S. (2016). THE PARAMEDIC ULTRASOUND IN CARDIAC ARREST STUDY. *Emergency Medicine Journal*, 33(12), 912–913.

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Rozanski, M., Waldschmidt, C., Kunz, A., Grittner, U., Ebinger, M., Wendt, M., ... Audebert, H. J. (2017). Glial Fibrillary Acidic Protein for Prehospital Diagnosis of Intracerebral Hemorrhage. *Cerebrovascular Diseases*, 76–81.

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Spaite, D. W., Hu, C., Bobrow, B. J., Chikani, V., Barnhart, B., Gaither, J. B., ... Sherrill, D. (2017). The Effect of Combined Out-of-Hospital Hypotension and Hypoxia on Mortality in Major Traumatic Brain Injury. *Annals of Emergency Medicine*, 69(1), 62–72.

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Spaite, D. W., Hu, C., Bobrow, B. J., Chikani, V., Sherrill, D., Barnhart, B., ... Adelson, P. D. (2016). Mortality and Prehospital Blood Pressure in Patients With Major Traumatic Brain Injury. *JAMA Surgery*.

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Webb, J., Long, B., & Koyfman, A. (2016). An Emergency Medicine–Focused Review of Seizure Mimics. *The Journal of Emergency Medicine*.

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Westrol, M. S., Donovan, C. M., & Kapitanyan, R. (2017). Blast Physics and Pathophysiology of Explosive Injuries. *Annals of Emergency Medicine*, 69(1), S4–S9.

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Yumoto, T., Mitsuhashi, T., Yamakawa, Y., Iida, A., Nosaka, N., Tsukahara, K., ... Nakao, A. (2016). Impact of Cushing's sign in the prehospital setting on predicting the need for immediate neurosurgical intervention in trauma patients: a nationwide retrospective observational study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 24(1), 147.

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Patient Profile

Brown, S. A., Hayden, T. C., Randell, K. A., Rappaport, L., Stevenson, M. D., & Kim, I. K. (2016). Improving Pediatric Education for Emergency Medical Services Providers: A Qualitative Study. *Prehospital and Disaster Medicine*, 1–7.

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Hsia, R. Y., Dai, M., Wei, R., Sabbagh, S., & Mann, N. C. (2017). Geographic Discordance Between Patient Residence and Incident Location in Emergency Medical Services Responses. *Annals of Emergency Medicine*, 69(1), 44–51.e3.

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Pasquier, M., Hugli, O., Kottmann, A., & Techel, F. (2016). Avalanche Accidents Causing Fatalities: Are They Any Different in the Summer? *High Altitude Medicine & Biology*,

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Turris, S. A., & Lund, A. (2016). Mortality at Music Festivals: Academic and Grey Literature for Case Finding. *Prehospital and Disaster Medicine*, 1–6.

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Randhawa, H., Edwards, M., & Cantle, F. (2016). WHO ARE OUR “CODE-RED” KIDS? – A URBAN MAJOR TRAUMA CENTRE’S EXPERIENCE OF MAJOR HAEMORRHAGE IN INJURED CHILDREN. *Emergency Medicine Journal*, 33(12), 936.2–936.

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Helicopter Emergency Medical Services

Brown, J. B., Gestring, M. L., Guyette, F. X., Rosengart, M. R., Stassen, N. A., Forsythe, R. M., ... Sperry, J. L. (2016). External validation of the Air Medical Prehospital Triage Score for identifying trauma patients likely to benefit from scene helicopter transport. *Journal of Trauma and Acute Care Surgery*, 1.

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Dodds, N., Emerson, P., Phillips, S., Green, D. R., & Jansen, J. O. (2016). Analysis of aeromedical retrieval coverage using elliptical isochrones. *Journal of Trauma and Acute Care Surgery*, 1.

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Harmsen, A. M. K., Giannakopoulos, G., Franschman, G., Christiaans, H., & Bloemers, F. (2016). Limitations in Prehospital Communication Between Trauma Helicopter, Ambulance Services, and Dispatch Centers. *The Journal of Emergency Medicine*.

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Ishikawa, K., Omori, K., Takeuchi, I., Jitsuiki, K., Yoshizawa, T., Ohsaka, H., ... Yanagawa, Y. (2016). A comparison between evacuation from the scene and interhospital transportation using a helicopter for subarachnoid hemorrhage. *The American Journal of Emergency Medicine*.

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Polites, S. F., Zielinski, M. D., Fahy, A. S., Wagie, A. E., Moir, C. R., Jenkins, D. H., ... Habermann, E. B. (2016). Mortality following helicopter versus ground transport of injured children. *Injury*.

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On-Scene Interventions

Bennin, C.-L. K. ., Ibrahim, S. ., Al-Saffar, F. ., Box, L. C. ., & Strom, J. A. . (2016). Achieving timely percutaneous reperfusion for rural ST-elevation myocardial infarction patients by direct transport to an urban PCI-hospital. *Journal of Geriatric Cardiology*, 13(10), 840–845.

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