



Prehospital Emergency Services Current Awareness Update Issue 51, September 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 51, September 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>

<u>Prehospital Research – Methods and Discussion</u>

**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

Ashton, C., Duffie, D. & Millar, J., 2017. Conserving Quality of Life through Community Paramedics. Healthcare quarterly (Toronto, Ont.), 20(2), pp.48–53.

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

Barr, N. et al., 2017. A qualitative exploration of infection prevention and control guidance for Australian paramedics. Australasian Journal of Paramedicine, 14(3).

Click here to access fulltext (free online as of 25/09/2017)

Bond, W., Hui, J. & Fernandez, R., 2017. The 2017 Academic Emergency Medicine Consensus Conference: Catalyzing System Change through Healthcare Simulation: Systems, Competency, and Outcomes. Academic Emergency Medicine.

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

Bowles, R.R. et al., 2017. Four dimensions of paramedic practice in Canada: Defining and describing the profession. Australasian Journal of Paramedicine, 14(3).

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Boyle, M., Boyle, M.J. & Wallis, J., 2017. Workplace violence - Is anybody really safe? Australasian Journal of Paramedicine, 14(3).

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Brooke, J. & Stiell, M., 2017. Development of clinical and inter-personal skills to support people living with dementia. Journal of Paramedic Practice, 9(8), pp.348–353.

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

Carlson, J.N. & Wang, H.E., 2017. Paramedic Intubation: Does Practice Make Perfect? Annals of Emergency Medicine, 70(3), pp.391–393.

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Coster, J.E. et al., 2017. Prioritizing novel and existing ambulance performance measures through expert and lay consensus: A three-stage multimethod consensus study. Health Expectations.

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Dicker, B., Davey, P. & Smith, T., 2017. The association between the first locating emergency ambulance being single crewed and cardiac arrest outcomes in New Zealand. The New Zealand medical journal, 130(1461), pp.47–55.

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El Sayed, M., 2017. Developing emergency and trauma systems internationally: What is really needed for better outcomes? Journal of Emergencies, Trauma, and Shock, 10(3), p.91.

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Garus-Pakowska, A., Szatko, F. & Ulrichs, M., 2017. Work-related accidents and sharp injuries in paramedics—illustrated with an example of a multi-specialist hospital, located in central Poland. International Journal of Environmental Research and Public Health, 14(8), p.901.

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Gautam, V., 2017. The need for sound professional advice. Journal of Paramedic Practice, 9(8), pp.327–327. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Greenwood-Ericksen, M.B., Tipirneni, R. & Abir, M., 2017. An Emergency Medicine–Primary Care Partnership to Improve Rural Population Health: Expanding the Role of Emergency Medicine. Annals of Emergency Medicine.

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Häske, D. et al., 2017. Subjective safety and self-confidence in prehospital trauma care and learning progress after trauma-courses: part of the prospective longitudinal mixed-methods EPPTC-trial. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 25(1), p.79.

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Hörberg, A. et al., 2017. Striving for balance - A qualitative study to explore the experiences of nurses new to the ambulance service in Sweden. Nurse Education in Practice, 27, pp.63–70.

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Irving, A. et al., 2017. A coproduced patient and public event: An approach to developing and prioritizing ambulance performance measures. Health Expectations.

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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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Kerai, S.M. et al., 2017. Post-traumatic stress disorder and its predictors in emergency medical service personnel: a cross-sectional study from Karachi, Pakistan. BMC Emergency Medicine, 17(1), p.26. Click here to access fulltext (free online as of 25/09/2017)

Lenson, S. & Mills, J., 2017. Undergraduate paramedic student psychomotor skills in an obstetric setting: An evaluation. Nurse Education in Practice.

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Madavan Nambiar, K., Nedungalaparambil, N. & Aslesh, O., 2017. Studying the variability in patient inflow and staffing trends on Sundays versus other days in the academic emergency department. Journal of Emergencies, Trauma, and Shock, 10(3), p.121.

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McLelland, G. et al., 2017. Interprofessional simulation of birth in a non-maternity setting for pre-professional students. Nurse Education Today, 58, pp.25–31.

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Newbury-Birch, D. et al., 2017. A survey of paramedics and alcohol related work: ascertaining fear of and level of assault in the North East Ambulance Service. British Paramedic Journal, 1(4), pp.13–20.

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Prairie, J. et al., 2017. Paramedics' working strategies while loading a stretcher into an ambulance. Applied Ergonomics, 65, pp.112–122.

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Ross, E.-C., 2017. Returning to work from extended leave: A trainee perspective. Emergency Medicine Australasia.

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Rostykus, P. et al., 2017. How do EMS medical directors think? American Journal of Emergency Medicine, 35(9), pp.1376–1378.

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Sawyer, S. et al., 2017. Paramedic Students' Knowledge, Attitudes, and Preparedness to Manage Intimate Partner Violence Patients. Prehospital Emergency Care, pp.1–11.

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Stone, R.J. et al., 2017. A "mixed reality" simulator concept for future medical emergency response team training. Journal of the Royal Army Medical Corps, 163(4), pp.280–287.

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# Prehospital Research – Methods and Discussion

Wagner, G. et al., 2017. Trading certainty for speed - how much uncertainty are decisionmakers and guideline developers willing to accept when using rapid reviews: an international survey. BMC Medical Research Methodology, 17(1), p.121.

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# Diagnosis and Triage

Aaronson, E. et al., 2017. 72h returns: A trigger tool for diagnostic error. 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

Body, R. et al., 2017. Feasibility of the Manchester Acute Coronary Syndromes (MACS) decision rule to safely reduce unnecessary hospital admissions: a pilot randomised controlled trial. Emergency Medicine Journal, 34(9), pp.586–592.

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Childress, K. et al., 2017. Prehospital End-tidal Carbon Dioxide Predicts Mortality in Trauma Patients. Prehospital Emergency Care, pp.1–5.

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Christensen, E.F. et al., 2017. Trends in diagnostic patterns and mortality in emergency ambulance service patients in 2007–2014: a population-based cohort study from the North Denmark Region. BMJ Open, 7(8), p.e014508.

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Durham, M., 2017. Paramedic accuracy and confidence with a trauma triage algorithm: a cross-sectional survey. British Paramedic Journal, 1(4), pp.1–7.

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

Johnson, K.D. & Alhaj-Ali, A., 2017. Using Simulation to Assess the Impact of Triage Interruptions. Journal of Emergency Nursing, 43(5), pp.435–443.

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Rague, J.M., 2017. Mortality and Prehospital Blood Pressure in Patients with Major Traumatic Brain Injury. The Journal of Emergency Medicine, 53(2), p.279.

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Räty, S., Silvennoinen, K. & Tatlisumak, T., 2017. Prehospital pathways of occipital stroke patients with mainly visual symptoms. Acta Neurologica Scandinavica.

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ten Brinke, J.G. et al., 2017. Value of prehospital assessment of spine fracture by paramedics. European Journal of Trauma and Emergency Surgery, pp.1–4

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Thompson, L. et al., 2017. Identifying pre-hospital factors associated with outcome for major trauma patients in a regional trauma network: an exploratory study. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 25(1), p.83.

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van den Berg, P. et al., 2017. An exploration of patients' experiences of participation in a randomised controlled trial of the Manchester Acute Coronary Syndromes (MACS) decision rule. Emergency Medicine Journal, 34(9), p.emermed-2016-206073.

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#### **Patient Profile**

#### Children

Mix, F. et al., 2017. Pediatric Prehospital Refusal of Medical Assistance: Association with Suspected Abuse or Neglect. Prehospital Emergency Care, pp.1–5.

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VanderKooy, T. et al., 2017. Utilization of Intravenous Catheters by Prehospital Providers during Pediatric Transports. Prehospital Emergency Care, pp.1–8.

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Whitley, G.A. & Bath-Hextall, F., 2017. Does current pre-hospital analgesia effectively reduce pain in children caused by trauma, within a UK ambulance service? A service evaluation. British Paramedic Journal, 1(4), pp.21–28.

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#### **Older People**

Kirshenbom, D. et al., 2017. Older age, comorbid illnesses, and injury severity affect immediate outcome in elderly trauma patients. Journal of Emergencies, Trauma and Shock, 10(3), p.146.

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Zeckey, C. & Kammerlander, C., 2017. Whats new in emergencies trauma and shock? Age and trauma: Geriatric trauma patients and geriatric trauma ward services. Journal of Emergencies, Trauma and Shock, 10(3), p.89.

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#### **Helicopter Emergency Medical Services**

#### None this edition

# On-Scene Interventions

Atzema, C.L. & Austin, P.C., 2017. Rate-control with beta-blockers versus calcium-channel blockers in the emergency setting: predictors of medication class choice and associated hospitalization. Academic Emergency Medicine.

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Bobbia, X. et al., 2017. Changes in the availability of bedside ultrasound practice in emergency rooms and prehospital settings in France. Anaesthesia Critical Care & Pain Medicine.

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Caputo, N. et. al., 2017. Emergency Department use of Apneic Oxygenation versus usual care during rapid sequence intubation: A randomized controlled trial (The ENDAO Trial). Academic Emergency Medicine. Click here to access abstract, email library.mailbox@nhs.net to request fulltext

Clements, T.W. et al., 2017. Does increased prehospital time lead to a "trial of life" effect for patients with blunt trauma? Journal of Surgical Research, 216, pp.103–108.

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Davis, P. et al., 2017. New Zealand paramedics are ready for an autonomous pre-hospital thrombolysis protocol. Australasian Journal of Paramedicine, 14(3).

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De Groot, B. et al., 2017. Inclusion of emergency department patients in early stages of sepsis in a quality improvement programme has the potential to improve survival: a prospective dual-centre study. Emergency Medicine Journal, 34(9), p.emermed-2015-205645.

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Givens, M., Muck, A.E. & Goolsby, C., 2017. Battlefield to bedside: Translating wartime innovations to civilian Emergency Medicine. The American Journal of Emergency Medicine.

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Greenhalgh, D.G., 2017. Sepsis in the burn patient: a different problem than sepsis in the general population. Burns & Trauma, 5(1), p.23.

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Harris, W. et al., 2017. Paramedic confidence in estimating external blood loss. Australasian Journal of Paramedicine, 14(3).

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Hodnick, R. et al., 2017. A Comparison of Paramedic First Pass Endotracheal Intubation Success Rate of the VividTrac VT-A 100, GlideScope Ranger, and Direct Laryngoscopy Under Simulated Prehospital Cervical Spinal Immobilization Conditions in a Cadaveric Model. Prehospital and disaster medicine, pp.1–4.

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Kawano, T. et al., 2017. Prehospital sodium bicarbonate use could worsen long term survival with favorable neurological recovery among patients with out-of-hospital cardiac arrest. Resuscitation, 119, pp.63–69. Click <a href="here">here</a> to access fulltext- SWASFT Athens required (register <a href="here">here</a>). Click <a href="here">here</a> to access free abstract

Le Conte, P. et al., 2017. Recognition and treatment of severe sepsis in the emergency department: retrospective study in two French teaching hospitals. BMC Emergency Medicine, 17(1), p.27. Click here to access fulltext (free online as of 25/09/2017)

Miner, J., 2017. Ketamine or Ketofol: Do we have enough evidence to know which one to use? Academic emergency medicine: official journal of the Society for Academic Emergency Medicine, 38(1), pp.42–49. Click <a href="mailto:here">here</a> to access abstract, email <a href="mailto:library.mailbox@nhs.net">library.mailbox@nhs.net</a> to request fulltext

Mitchell, A.L. et al., 2017. Improving the pre-hospital safety of steroid-dependent patients in northern England: a hospital-initiated ambulance service registration pathway. Clinical Endocrinology. Click <a href="mailto:here">here</a> to access abstract, email <a href="mailto:library.mailbox@nhs.net">library.mailbox@nhs.net</a> to request fulltext

Pfrunder, A.A., Falk, A.-C. & Lindström, V., 2017. Ambulance personnel's management of pain for patients with hip fractures; based on ambulance personnel's gender and years of experience. International Journal of Orthopaedic and Trauma Nursing.

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Pope, I. et al., 2017. A qualitative study exploring the factors influencing admission to hospital from the emergency department. BMJ Open, 7(8), p.e011543.

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Schauer, S.G. et al., 2017. Multicenter, Prospective Study of Prehospital Administration of Analgesia in the U.S. Combat Theater of Afghanistan. Prehospital Emergency Care, pp.1–6.

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#### Airway Management, Resuscitation & CPR

Betzer, M. & Allon, J., 2017. Successful use of percussion pacing in a pre-hospital p-wave asystole and ventricular standstill. International Paramedic Practice, 7(2), pp.24–25.

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Contri, E. et al., 2017. Complete chest recoil during laypersons' CPR: Is it a matter of weight? American Journal of Emergency Medicine, 35(9), pp.1266–1268.

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Crock, C. et al., 2017. Lessons learnt from incidents involving the airway and breathing reported from Australasian emergency departments. Emergency Medicine Australasia.

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Czyż, R. et al., 2017. Paramedics Knowledge About Providing Paediatric Advanced Medical Resuscitation Procedures. Journal of Education, Health and Sport, 7(8), pp.170–180.

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Dumas, F. et al., 2017. The relationship between chronic health conditions and outcome following out-of-hospital ventricular fibrillation cardiac arrest. Resuscitation, 0(0).

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Elfriede, R. et al., 2017. Characteristics and outcome of patients with hypothermic out-of-hospital cardiac arrest: Experience from a European trauma center. Resuscitation, 0(0).

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Fordyce, C.B., 2017. Reduced critical care utilization: Another victory for effective bystander interventions in cardiac arrest. Resuscitation, 119, pp.A4–A5.

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Freire-Tellado, M. et al., 2017. Should Public Access Automated external defibrillators be used in all unresponsive patients to avoid an undetected Out-of-hospital cardiac arrest (OHCA)? The American Journal of Emergency Medicine.

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Galatianou, I. et al., 2017. Body mass index and outcome of out-of-hospital cardiac arrest patients not treated by targeted temperature management. AM J EMERG MED, 35(9), pp.1247–1251.

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Gauta, V., 2017. Instigation of bystander CPR: creating multi-lingual learning resources. International Paramedic Practice, 7(2), pp.16–17.

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Hansen, M. et al., 2017. Safety events in pediatric out-of-hospital cardiac arrest. American Journal of Emergency Medicine.

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Hansen, M.L. et al., 2017. A comparison of pediatric airway management techniques during out-of-hospital cardiac arrest using the CARES database. Resuscitation, 0(0).

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Hubner, P. et al., 2017. Improvements in the quality of advanced life support and patient outcome after implementation of a standardized real-life post-resuscitation feedback system. Resuscitation, 120, pp.38–44. Click <a href="here">here</a> to access fulltext- SWASFT Athens required (register <a href="here">here</a>). Click <a href="here">here</a> to access free abstract

Inokuchi, S. et al., 2017. A New Rule for Terminating Resuscitation of Out-of-Hospital Cardiac Arrest Patients in Japan: A Prospective Study. The Journal of Emergency Medicine.

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Ma, J. et al., 2017. Usage of ambulance transport and influencing factors in acute coronary syndrome: a cross-sectional study at a tertiary centre in China. BMJ Open, 7(8), p.e015809.

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McCartney, M., 2017. Margaret McCartney: The cult of CPR. BMJ, 358. Click <u>here</u> to access fulltext (free online as of 25/09/2017)

Nehme, Z. et al., 2017. Recurrent out-of-hospital cardiac arrest. Resuscitation, 26(0), pp.253–262. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Nord, A. et al., 2017. Increased survival from out-of-hospital cardiac arrest when off duty medically educated personnel perform CPR compared with laymen. Resuscitation, 0(0).

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Oh, J.H., 2017. Vertical versus conventional two-thumb technique: Which is a better technique during infant CPR? The American Journal of Emergency Medicine, 35(9), p.1378.

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Okubo, M. et al., 2017. Improving trend in ventricular fibrillation/pulseless ventricular tachycardia out-of-hospital cardiac arrest in Rochester, Minnesota: A 26-year observational study from 1991 to 2016. Resuscitation, 120, pp.31–37.

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Pilbery, R. & Standen, S., 2017. The management of shock-resistant arrhythmias: a clinical audit., British Paramedic Journal, 2(1), pp.20–24.

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Plumbley, S. & Parkhe, E., 2017. Patient positioning and airway management in the pre-hospital setting: an observational study. British Paramedic Journal, 1(4), pp.8–12.

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Spinella, P.C. & Cap, A.P., 2017. Prehospital hemostatic resuscitation to achieve zero preventable deaths after traumatic injury. Current Opinion in Hematology, p.1.

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Takahashi, H. et al., 2017. Does dispatcher-assisted CPR generate the same outcomes as spontaneously delivered bystander CPR in Japan? The American Journal of Emergency Medicine.

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Thomassen, O. et al., 2017. Mountain rescue cardiopulmonary resuscitation: a comparison between manual and mechanical chest compressions during manikin cardio resuscitation. Emergency Medicine Journal, 34(9), pp.573–577.

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Tsai, S.-L. et al., 2017. Features of hospital and emergency medical service in out-of-hospital cardiac arrest patients with shockable rhythm. The American Journal of Emergency Medicine, 35(9), pp.6–11.

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von Auenmueller, K. et al., 2017. The value of arterial blood gas parameters for prediction of mortality in survivors of Out-of-hospital cardiac arrest. Journal of Emergencies, Trauma, and Shock, 10(3), p.134. Click <a href="https://example.com/here">here</a> to access fulltext (free online as of 25/09/2017)

Wang, A.H.E. et al., 2017. Post-Resuscitation Arterial Oxygen and Carbon Dioxide and Outcomes after Out-of-Hospital Cardiac Arrest. Resuscitation, 0(0).

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Wieczorek, W. & Kaminska, H., 2017. New era of infant chest compression. The American Journal of Emergency Medicine, 35(9), pp.1374–1375.

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