



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 32, January 2016

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

Boyle, M.J. & Wallis, J., 2016. Violence against paramedics – when will it stop? *Australasian Journal of Paramedicine*, 13(1).

Click here to access fulltext/abstract (free online as of 15/02/2016)

Brainard, J. & Alefounder, H., 2016. Ambulance trust initiatives to reduce conveyances to emergency departments. *European journal of emergency medicine : official journal of the European Society for Emergency Medicine*.

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

Crowe, L., 2016. Identifying the risk of compassion fatigue, improving compassion satisfaction and building resilience in emergency medicine. *Emergency medicine Australasia : EMA*. Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Dojmi Di Delupis, F. et al., 2016. Perceptions of Emergency Department Triage Nurses About Prehospital Emergency Rescuers in Italy: A Latent Threat to Clinical Handover. *Journal of patient safety*.

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Escott, M.E.A., 2015. APPRECIATE FALLIBILITY: TALENTED PARAMEDICS SHOULDN'T BE FIRED FOR MAKING MISTAKES. *JEMS*: a journal of emergency medical services, 40(11), p.63. Click here to access fulltext/abstract (free online as of 15/02/2016)

Gattu, R., Teshome, G. & Lichenstein, R., 2016. Telemedicine Applications for the Pediatric Emergency Medicine. *Pediatric Emergency Care*, 32(2), pp.123–130.

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

Hogan, N. et al., 2015. Measuring workplace trauma response in Australian paramedics: an investigation into the psychometric properties of the Impact of Event Scale. *Psychology research and behavior management*, 8, pp.287–94.

Click here to access fulltext/abstract (free online as of 15/02/2016)

Iorga, M. et al., BURNOUT SYNDROM AMONG PUBLIC AMBULANCE STAFF. Revista medicochirurgicală a Societății de Medici și Naturaliști din Iași, 119(4), pp.1128–32. Click <u>here</u> to access fulltext/abstract (free online as of 15/02/2016)

Cooney, R.N., 2016. Trauma transfers to a rural level 1 center: a retrospective cohort study. *Journal of trauma management & outcomes*, 10(1), p.1.

Click here to access fulltext/abstract (free online as of 15/02/2016)

Jensen, J.L. et al., 2016. A Survey to Determine Decision-Making Styles of Working Paramedics and Student Paramedics. *CJEM*, pp.1–10.

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

Jensen, J.L. et al., Impact of a Novel Collaborative Long-Term Care -EMS Model: A Before-and-After Cohort Analysis of an Extended Care Paramedic Program. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS*

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Directors, 20(1), pp.111–6.

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Jia, L. et al., 2016. High incidence of adverse events during intra-hospital transport of critically ill patients and new related risk factors: a prospective, multicenter study in China. *Critical care (London, England)*, 20(1), p.12. Click here to access fulltext/abstract (free online as of 15/02/2016)

Johnston, A. et al., 2016. Review article: Staff perception of the emergency department working environment: Integrative review of the literature. *Emergency medicine Australasia : EMA*. Click here-to-access-fulltext/abstract (free online as of 15/02/2016)

Johnston, T. & Acker, J., 2016. Using a sociological approach to answering questions about paramedic professionalism and identity. *Australasian Journal of Paramedicine*, 13(1). Click here to access fulltext/abstract (free online as of 15/02/2016)

Kendall-Raynor, P., 2016. "Nurses and paramedics should be the only call handlers at NHS 111". Nursing standard (Royal College of Nursing (Great Britain): 1987), 30(23), p.8. Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Kusel, E. & Savino, P.B., 2015. Boots on the ground. Alameda County, Calif., community paramedics curb hospital readmissions & non-emergent 9-1-1 use. *JEMS*: a journal of emergency medical services, 40(12), pp.55–7.

Click here to access fulltext/abstract (free online as of 15/02/2016)

Martin-Gill, C. et al., 2016. National Prehospital Evidence-Based Guidelines Strategy: A Summary for EMS Stakeholders. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–9.

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Meischke, H. et al., 2016. Protocol: simulation training to improve 9-1-1 dispatcher identification of cardiac arrest. *BMC emergency medicine*, 16(1), p.9.

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Murphy, A. et al., 2016. Development of key performance indicators for prehospital emergency care. *Emergency medicine journal : EMJ*.

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Nagata, I. et al., 2016. Factors related to prolonged on-scene time during ambulance transportation for critical emergency patients in a big city in Japan: a population-based observational study. *BMJ open*, 6(1), p.e009599.

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Newbury, B., 2015. EDUCATION WITHOUT BORDERS: HYBRID EDUCATION FOR INITIAL PARAMEDIC TRAINING. *JEMS*: a journal of emergency medical services, 40(11), pp.36–8.

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Park, H.A. et al., 2016. The Effect of Emergency Medical Service Use and Inter-hospital Transfer on Prehospital Delay among Ischemic Stroke Patients: A Multicenter Observational Study. *Journal of Korean medical science*, 31(1), pp.139–46.

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Rahati, A. et al., 2015. Job Involvement and Organizational Commitment of Employees of Prehospital Emergency Medical System. *Nursing and midwifery studies*, 4(4), p.e30646.

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Rappaport, L.D. et al., 2016. Comparison of Errors Using Two Length-Based Tape Systems for Prehospital Care in Children. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–10.

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

Ross, L., Hannah, J. & Huizen, P. Van, 2016. What motivates students to pursue a career in paramedicine? *Australasian Journal of Paramedicine*, 13(1).

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Seligman, W.H. et al., 2016. Initial experience in setting up a medical student first responder scheme in South Central England. *Emergency medicine journal : EMJ*, 33(2), pp.155–8.

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Smith, S.W. et al., 2016. Prehospital Indicators for Disaster Preparedness and Response: New York City Emergency Medical Services in Hurricane Sandy. *Disaster medicine and public health preparedness*, pp.1–11.

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Stanley, I.H., Hom, M.A. & Joiner, T.E., 2015. A systematic review of suicidal thoughts and behaviors among police officers, firefighters, EMTs, and paramedics. *Clinical psychology review*, 44, pp.25–44. Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

Tate, R.C. et al., 2016. Strategies Used by Prehospital Providers to Overcome Language Barriers. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–11.

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Villa-Roel, C. et al., 2016. Effectiveness of Educational Interventions to Increase Primary Care Follow-up for Adults Seen in the Emergency Department for Acute Asthma: A Systematic Review and Meta-analysis. *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*, 23(1), pp.5–13.

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Williams, B. & Teese, D., 2016. A cross-institutional analysis of Australian undergraduate paramedic students' attitudes towards interprofessional collaboration. *Journal of interprofessional care*, 30(1), pp.97–102.

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Prehospital Research – Methods and Discussion

Browne, L.R. et al., 2016. 2015 Pediatric Research Priorities in Prehospital Care. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–6.

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van de Glind, I. et al., 2016. A national research agenda for pre-hospital emergency medical services in the Netherlands: a Delphi-study. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.2.

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Oliver, G.J. & Walter, D.P., 2016. A call for consensus on methodology and terminology to improve comparability in the study of preventable prehospital trauma deaths: A systematic literature review. Academic emergency medicine: official journal of the Society for Academic Emergency Medicine. Click herestate/ to access abstract, email history.mailbox@nhs.net to request fulltext.

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Tate, R.C., 2015. The Need for More Prehospital Research on Language Barriers: A Narrative Review. *The western journal of emergency medicine*, 16(7), pp.1094–105. Click here to access fulltext/abstract (free online as of 15/02/2016)

Diagnosis and Triage

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Available <u>here</u> free on NHS networked machine, email <u>library.mailbox@nhs.net</u> to request fulltext if unable to access.

Bou Chebl, R. et al., 2016. Diagnostic value of end tidal capnography in patients with hyperglycemia in the emergency department. *BMC emergency medicine*, 16(1), p.7.

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Byrne, J.P. et al., 2016. The Impact of Short Prehospital Times on Trauma Center Performance Benchmarking: An Ecologic Study. *The journal of trauma and acute care surgery*Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Carlton, E., Body, R. & Greaves, K., 2016. External Validation of the Manchester Acute Coronary Syndromes Decision Rule. *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*.

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Doenyas-Barak, K. et al., 2016. Lactic acidosis and severe septic shock in metformin users: a cohort study. *Critical care (London, England)*, 20(1), p.10.

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Khorram-Manesh, A. et al., 2011. Prehospital triage, discrepancy in priority-setting between emergency medical dispatch centre and ambulance crews. *European journal of trauma and emergency surgery : official publication of the European Trauma Society*, 37(1), pp.73–8. Available here free on NHS networked machine, email library.mailbox@nhs.net to request fulltext if unable to access.

Kimchi, N. et al., 2015. Anaphylaxis cases presenting to primary care paramedics in Quebec. *Immunity, inflammation and disease*, 3(4), pp.406–10.

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Mahler, S.A. et al., 2016. Adherence to an Accelerated Diagnostic Protocol for Chest Pain: Secondary Analysis of the HEART Pathway Randomized Trial. *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*, 23(1), pp.70–7.

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Patient Profile

Hunold, K.M. et al., 2016. Priorities of Care among Older Adults in the Emergency Department: A Cross-Sectional Study. *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*.

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Norman, C., Mello, M. & Choi, B., 2016. Identifying Frequent Users of an Urban Emergency Medical Service Using Descriptive Statistics and Regression Analyses. *The western journal of emergency medicine*, 17(1), pp.39–45.

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Rubenson Wahlin, R. et al., 2016. Do male and female trauma patients receive the same prehospital care?: an observational follow-up study. *BMC emergency medicine*, 16(1), p.6.

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Solberg, R.G. et al., 2015. The prehospital and hospital costs of emergency care for frequent ED patients. *The American journal of emergency medicine*.

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Helicopter Emergency Medical Services

Eross, A. et al., 2016. Apneic preoxygenation without nasal prongs: the "Hungarian Air Ambulance method". *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.5. Click here to access fulltext/abstract (free online as of 15/02/2016)

Hong, J., Rubino, S. & Lollis, S.S., 2015. Pre-hospital Glasgow Coma Score predicts emergent intervention following helicopter transfer for spontaneous subarachnoid hemorrhage. *World neurosurgery*.

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On-Scene Interventions

Browne, L.R. et al., Prehospital Opioid Administration in the Emergency Care of Injured Children. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, 20(1), pp.59–65.

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Casu, S. & Häske, D., 2015. Severe sepsis and septic shock in pre-hospital emergency medicine: survey results of medical directors of emergency medical services concerning antibiotics, blood cultures and algorithms. *Internal and emergency medicine*.

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Chow, J.W.Y. et al., 2016. Controlled oxygen therapy at emergency department presentation increases the likelihood of achieving target oxygen saturations in patients with exacerbations of chronic obstructive pulmonary disease. *Emergency medicine Australasia : EMA*.

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Fiandeiro, D., Govindsamy, J. & Maharaj, R.C., 2015. Prehospital cooling of severe burns: Experience of the Emergency Department at Edendale Hospital, KwaZulu-Natal, South Africa. *South African medical journal = Suid-Afrikaanse tydskrif vir geneeskunde*, 105(6), pp.457–60.

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Garwe, T., Johnson, J.J. & Letton, R.W., 2016. Indication Bias Explains Some of the Observed Increased Mortality Associated With Use of Prehospital Intravenous Fluids in a Pediatric Trauma Population. *Academic emergency medicine : official journal of the Society for Academic Emergency*

Medicine, 23(1), pp.83–92.

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Gerhardt, R.T. et al., Analysis of Prehospital Documentation of Injury-Related Pain Assessment and Analgesic Administration on the Contemporary Battlefield. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, 20(1), pp.37–44

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Te Grotenhuis, R. et al., 2016. Prehospital use of hemostatic dressings in emergency medical services in the Netherlands: A prospective study of 66 cases. *Injury*.

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Hoffmann, M. et al., 2016. The Impact of Prehospital Intubation With and Without Sedation on Outcome in Trauma Patients With a GCS of 8 or Less. *Journal of neurosurgical anesthesiology*. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Naumann, D.N. et al., 2015. Prehospital rapid sequence induction following trauma in the era of regional networks for major trauma. *European journal of emergency medicine : official journal of the European Society for Emergency Medicine*.

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Rudd, M. et al., 2015. A systematic review of stroke recognition instruments in hospital and prehospital settings. *Emergency Medicine Journal*, pp.emermed–2015–205197–. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Russo, S.G. et al., 2016. Use of the GlideScope®-Ranger for pre-hospital intubations by anaesthesia trained emergency physicians - an observational study. *BMC emergency medicine*, 16(1), p.8. Click here to access fulltext/abstract (free online as of 15/02/2016)

Samokhvalov, I.M. & Reva, V.A., 2015. [Pre-hospital care for wounded in military conflicts: state and prospects]. *Voenno-meditsinskii zhurnal*, 336(10), pp.15–26. **(Article in Russian)** Click here to access abstract, email history.mailbox@nhs.net to request fulltext.

Savino, P.B. et al., 2015. Chest Pain of Suspected Cardiac Origin: Current Evidence-based Recommendations for Prehospital Care. *The western journal of emergency medicine*, 16(7), pp.983–95.

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Shapey, I.M., Kumar, D.S. & Roberts, K., 2012. Invasive and surgical procedures in pre-hospital care: what is the need? *European journal of trauma and emergency surgery : official publication of the European Trauma Society*, 38(6), pp.633–9.

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Wallgren, U.M. et al., 2016. Longer time to antibiotics and higher mortality among septic patients with non-specific presentations -a cross sectional study of Emergency Department patients indicating that a screening tool may improve identification. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 24(1), p.1.

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Walter, S., Grunwald, I.Q. & Fassbender, K., 2016. [Mobile stroke unit for prehospital stroke treatment]. *Der Radiologe*, 56(1), pp.28–31. **(Article in German)**

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Weichenthal, L., Crane, D. & Rond, L., 2016. Needle Thoracostomy in the Prehospital Setting: A Retrospective Observational Study. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*, pp.1–5. Click here to access abstract, email library.mailbox@nhs.net to request fulltext.

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Airway Management, Resuscitation & CPR

Böttiger, B.W. et al., 2016. Influence of EMS-physician presence on survival after out-of-hospital cardiopulmonary resuscitation: systematic review and meta-analysis. *Critical care (London, England)*, 20(1), p.4.

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Cheetham, O. V et al., 2016. Rates of organ donation in a UK tertiary cardiac arrest centre following out-of-hospital cardiac arrest. *Resuscitation*.

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Resuscitation.

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Hellenkamp, K. et al., 2016. Early pneumonia and timing of antibiotic therapy in patients after nontraumatic out-of-hospital cardiac arrest. *Critical care (London, England)*, 20(1), p.31 Click here to access fulltext/abstract (free online as of 15/02/2016)

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Inácio, J.F.S. et al., 2016. Monophasic and Biphasic Shock for Transthoracic Conversion of Atrial Fibrillation: Systematic Review and Network Meta-analysis. *Resuscitation*, 100, pp.66–75. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Manning, J.E. et al., 2016. Aortic Hemostasis and Resuscitation: Preliminary Experiments Using Selective Aortic Arch Perfusion With Oxygenated Blood and Intra-aortic Calcium Coadministration in a Model of Hemorrhage-induced Traumatic Cardiac Arrest. *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*.

Click <u>here</u> to access abstract, email <u>library.mailbox@nhs.net</u> to request fulltext.

Mentzelopoulos, S.D. et al., 2016. A survey of key opinion leaders on ethical resuscitation practices in 31 European Countries. *Resuscitation*, 100, pp.11–17.

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Nehme, Z. et al., 2016. Impact of cardiopulmonary resuscitation duration on survival from paramedic witnessed out-of-hospital cardiac arrests: An observational study. *Resuscitation*, 100, pp.25–31. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Obisike, V.L., Tamayo, E. & Heredia-Rodriguez, M., 2016. Passive leg raising in CPR: Increasing the effectiveness of each compression. *Resuscitation*.

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Peberdy, M.A. et al., 2016. Inflammatory Markers Following Resuscitation from Out-of-Hospital Cardiac Arrest - a Prospective Multicenter Observational Study. *Resuscitation*.

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Sundermann, M.L. et al., 2016. Feasibility of Biosignal-guided Chest Compression During Cardiopulmonary Resuscitation: A Proof of Concept. *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*, 23(1), pp.93–7.

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Verhaert, D.V.M. et al., 2016. Termination of resuscitation in the prehospital setting: A comparison of decisions in clinical practice vs. recommendations of a termination rule. *Resuscitation*, 100, pp.60–65.

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Wang, H.E. et al., 2016. Design and Implementation of the Resuscitation Outcomes Consortium Pragmatic Airway Resuscitation Trial (PART). *Resuscitation*.

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- Safer healthcare: strategies for the real world (Vincent) 2016 (9783319255576)

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