



Prehospital Emergency Services Current Awareness Update Issue 87, December 2020

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 87, December 2020

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

Further Research Needed

New ebooks and other resources

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Prehospital Practitioners - Roles, Professional Practice and Development

SWASFT author * Bedson, A. (2021). Integrating research and evidence-based guidance into prescribing practice. *Journal of Paramedic Practice*.

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Abrashkin, K. A. (2021). Video or Telephone? A Natural Experiment on the Added Value of Video Communication in Community Paramedic Responses - Annals of Emergency Medicine. *Annals of Emergency Medicine*.

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Anderson, N.E. et al. (2021). Prehospital Resuscitation Decision Making: A model of ambulance personnel experiences, preparation and support. *Emergency medicine Australasia : EMA*. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Best, P., & Taylor, V. (2021). Paramedic prescribing: implementation in practice. *Journal of Paramedic Practice*.

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Bijani, M., Abedi, S., Karimi, S., & Tehranineshat, B. (2021). Major challenges and barriers in clinical decision-making as perceived by emergency medical services personnel: a qualitative content analysis. *BMC Emergency Medicine*, *21*(1), 1-12.

Click <u>here</u> to access fulltext (open access as of 02/02/2021)

Blodgett, J.M., et al. (2021). Alternatives to direct emergency department conveyance of ambulance patients: a scoping review of the evidence. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 29(1).

Click <u>here</u> to access fulltext (open access as of 02/02/2021)

Brewster, D. J., Begley, J. L., & Marshall, S. D. (2021). Rise and fall of the aerosol box; and what we must learn from the adoption of untested equipment. *Emergency Medicine Journal* Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Cash, R. E., Clay, C. E., Leggio, W. J., & Jr, C. A. C. (2021). Geographic Distribution of Accredited Paramedic Education Programs in the United States. *Prehospital Emergency Care*. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Chowdhury, S. Z., et al. (2021). Effect of Pre-Hospital Workflow Optimization on Treatment Delays and Clinical Outcomes in Acute Ischemic Stroke: A Systematic Review and Meta-Analysis. *Academic Emergency Medicine*.

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Counts, C. R. (2021). Emergency Medical Services and Do Not Attempt Resuscitation directives among patients with out-of-hospital cardiac arrest - Resuscitation. *Resuscitation*.

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Duncan, P. (2021). My daunting first steps. Journal of Paramedic Practice.

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Fernandez, E., Rahman, N., Hayton, J., Crichton, C., DeWitt, V., Cattermole, G., Bruijns, S. (2021). Global health and the Royal College of Emergency Medicine: a cross-sectional survey of members and fellows.

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Flowerdew, L., & Tipping, M. (2021). SECUre: a multicentre survey of the safety of emergency care in UK emergency departments.

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Martin, J. et al. (2021). Coffee & Cases: Peer learning in prehospital care. *The clinical teacher*. Click here to access fulltext (open access as of 02/02/2021)

Panchal, A. R., Rivard, M. K., Cash, R. E., Jr., J. P. C., Jean-Baptiste, M., Chrzan, K., & Gugiu, M. R. (2021). Methods and Implementation of the 2019 EMS Practice Analysis. *Prehospital Emergency Care*.

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Peate, I. (2021). The prescribing paramedic: a pharmacology series. *Journal of Paramedic Practice*. Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Ramos, Q. M. R. (2021). Socioeconomic disparities in Rapid ambulance response for out-of-hospital cardiac arrest in a public emergency medical service system: A nationwide observational study - Resuscitation. *Resuscitation*.

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Touriel, R., et al. (2021). A Pilot Study: Emergency Medical Services—Related Violence in the Out-of-Hospital Setting in Southeast Michigan. *Journal of Emergency Medicine*, *0*(0).

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Vogel, J.A. et al. (2021). The importance of neighborhood in 9-1-1 ambulance contacts: A geospatial analysis of medical and trauma emergencies in Denver. *Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors*. Click here to access fulltext- SWASFT Athens required (register here). Click here to access free abstract

Prehospital Research – Methods and Discussion

Strengthening the link between pre-clinical and clinical resuscitation research - Resuscitation. (2021). Click <u>here</u> to access fulltext- SWASFT Athens required (register <u>here</u>). Click <u>here</u> to access free abstract

Wolf, L. A. (2021). Establishing Research Priorities for the Emergency Severity Index Using a Modified Delphi Approach - Journal of Emergency Nursing. *Journal of Emergency Nursing*. Click here to access fulltext (open access as of 02/02/2021)

Diagnosis and Triage

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Ageron, F.X. et al. (2021). Validation of the BATT score for prehospital risk stratification of traumatic haemorrhagic death: usefulness for tranexamic acid treatment criteria. *Scandinavian journal of trauma, resuscitation and emergency medicine, 29*(1).

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Avest, E. t., Taylor, S., Wilson, M., & Lyon, R. L. (2021). Prehospital clinical signs are a poor predictor of raised intracranial pressure following traumatic brain injury.

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Crowe, R. P., Myers, J. B., Fernandez, A. R., Bourn, S., & McMullan, J. T. (2020). The Cincinnati Prehospital Stroke Scale Compared to Stroke Severity Tools for Large Vessel Occlusion Stroke Prediction.

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Krebs, S., Roth, D., Knoflach, M., Baubin, M., Lang, W., Beisteiner, R., . . . Sykora, M. (2021). Design and Derivation of the Austrian Prehospital Stroke Scale (APSS) to Predict Severe Stroke with Large Vessel Occlusion. *Prehospital Emergency Care*.

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Minion, S. C., et al. (2021). An educational module to improve knowledge of delirium screening in the Emergency Department. *The American Journal of Emergency Medicine*, *0*(0).

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Nadolny, K., (2021). Glasgow coma scale score of more than four on admission predicts in-hospital survival in patients after out-of-hospital cardiac arrest. *The American Journal of Emergency Medicine*, *0*(0).

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Warwick, J.W. et al. (2020). Association of Prehospital Step 1 Vital Sign Criteria and Vital Sign Decline with Increased Emergency Department and Hospital Death. *Journal of the American College of Surgeons*.

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Wray, J. P. (2021). The diamond of death: Hypocalcemia in trauma and resuscitation - The American Journal of Emergency Medicine. *American Journal of Emergency Medicine*.

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Zhao, H., et al. (2021). Utility of Severity-Based Prehospital Triage for Endovascular Thrombectomy: ACT-FAST Validation Study. *Stroke*, *52*(1).

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Patient Profile

Children

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Bayouth, L., et al. (2020). Level of Comfort With Pediatric Trauma Transports: Survey of Prehospital Providers. *The American surgeon*.

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Greenfield, G., Blair, M., Aylin, P. P., Saxena, S., Majeed, A., & Bottle, A. (2021). Characteristics of frequent paediatric users of emergency departments in England: an observational study using routine national data.

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Haskins, B., et al. (2021). Comparison of out-of-hospital cardiac arrests occurring in schools and other public locations: a 12-year retrospective study. *Prehospital Emergency Care*.

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Toida, C., & Muguruma, T., (2020). Prehospital medical equipment for care of pediatric injury patients in Japanese ambulances: a nationwide survey. *Acute medicine & surgery, 7*(1).

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Conditions

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Older People

Hjalmarsson, A., Holmberg, M., Asp, M., Östlund, G., Nilsson, K. W., & Kerstis, B. (2020). Characteristic patterns of emergency ambulance assignments for older adults compared with adults requiring emergency care at home in Sweden: a total population study. *BMC Emergency Medicine*, 20(1), 1-12.

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van Vuuren, J. et al. (2021). Reshaping healthcare delivery for elderly patients: the role of community paramedicine; a systematic review. *BMC health services research*, 21(1).

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Refugees

Jafar, A. J. N. (2021). Advocating for those who need it most: our responsibility for delivering appropriate care to refugee and asylum seeking patients.

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Nijman, R. G., Krone, J., Mintegi, S., Bidlingmaier, C., Maconochie, I. K., Lyttle, M. D., & Both, U. v. (2021). Emergency care provided to refugee children in Europe: RefuNET: a cross-sectional survey study.

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Helicopter Emergency Medical Services

Bredmose, P. P. (2021). Live Tissue Training on Anesthetized Pigs for Air Ambulance Crews - Air Medical Journal. *Air Medical Journal*.

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Coughlan, D., et al. (2021). Secondary transfer of emergency stroke patients eligible for mechanical thrombectomy by air in rural England: economic evaluation and considerations. *Emergency Medicine Journal*.

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Datlow, M. D., (2021). Field Diagnosis and Treatment of Hypokalemic Periodic Paralysis by a Helicopter Emergency Medical Services Team. *Air Medical Journal*, *0*(0).

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de Witt, A. J. (2021). Airflow Characteristics in Aeromedical Aircraft: Considerations During COVID-19 - Air Medical Journal. *Air Medical Journal*.

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McLachlan, S. (2021). Scoping the Demand for Night Operation of Essex & Herts Air Ambulance: A Prospective Observational Study - Air Medical Journal.

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On-Scene Interventions

*** SWASFT author*** Law, A. (2021). Should ascorbic acid be a primary therapy for sepsis in prehospital settings? *Journal of Paramedic Practice*.

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Bernon, P., Mrozek, S., Dupont, G., Dailler, F., Lukaszewicz, A.-C., & Balança, B. (2021). Can prone positioning be a safe procedure in patients with acute brain injury and moderate-to-severe acute respiratory distress syndrome? *Critical Care*, 25(1), 1-3.

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Crewdson, K., et al. (2021). Apnoeic oxygenation for emergency anaesthesia of pre-hospital trauma patients. *Scandinavian journal of trauma, resuscitation and emergency medicine, 29*(1). Click <u>here</u> to access fulltext (open access as of 02/02/2021)

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Fisher, A.D., et al. (2020). Blood Product Administration During the Role 1 Phase of Care: The Prehospital Trauma Registry Experience. *Military medicine*. Click <u>here</u> to access fulltext (open access as of 02/02/2021)

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Krebs, W. (2021). Prehospital Ketamine Use for Rapid Sequence Intubation: Are Higher Doses Associated With Adverse Events? - Air Medical Journal. *Air Medical Journal*.

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Mikkelsen, Vibe S. (2021). Pre-hospital antibiotic therapy preceded by blood cultures in a physician-manned mobile emergency care unit. *Acta anaesthesiologica Scandinavica*.

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Airway Management, Resuscitation & CPR

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Further Research Needed

Blodgett, J.M., et al. (2021). Alternatives to direct emergency department conveyance of ambulance patients: a scoping review of the evidence. Scandinavian journal of trauma, resuscitation and emergency medicine, 29(1).

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CONCLUSIONS: This broad summary offers initial support for alternate routes of care for intermediate, non-urgent patients. Even so, most studies lacked methodologically rigorous evidence and failed to evaluate safe patient outcomes. Some remedies appear to be available such as formal triage pathways, targeted training and organisational support, however there is an **urgent need for more research and dissemination in this area**.

Chowdhury, S. Z., et al. (2021). Effect of Pre-Hospital Workflow Optimization on Treatment Delays and Clinical Outcomes in Acute Ischemic Stroke: A Systematic Review and Meta-Analysis. *Academic Emergency Medicine*.

Click <u>here</u> to access fulltext (open access as of 02/02/2021)

Conclusions: This systematic review and meta-analysis found that PSWO significantly improves several time metrics related to stroke treatment leading to improvement in IVT reperfusion rates. Thus, the implementation of these measures in stroke networks is a promising avenue to improve an often-neglected aspect of the stroke response. However, the limited available data suggest functional outcomes and mortality are not significantly improved by PSWO, hence **further studies and improvement strategies vis a vis PSWOs are warranted.**

van Woerden, H., et al. (2020). Factors influencing hospital conveyance following ambulance attendance for people with diabetes: A retrospective observational study. *Diabetic medicine : a journal of the British Diabetic Association*.

Click here to access fulltext (open access as of 02/02/2021)

CONCLUSION: A higher rate of conveyance associated with hyperglycaemic cases indicates a need for more resources, education and training in this area. Higher conveyance rates were also associated with no paramedic being present and no treatment being administered. This suggests that paramedic attendance may be crucial in reducing avoidable admissions. **Developing and validating protocols for pre-hospital services and treatment may help to reduce hospital conveyance rates.**

Hawkridge, K., et al. (2020). Evidence for the use of spinal collars in stabilising spinal injuries in the prehospital setting in trauma patients: a systematic review. *European journal of trauma and emergency* surgery: official publication of the European Trauma Society.

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Conclusion: Our study shows a disparity between current guidelines and the published literature and warrants further direct research to obtain a more comprehensive view of the use of spinal collars in a pre-hospital setting.

Valeriano, A. (2021). Crowdsourcing to save lives: A scoping review of bystander alert technologies for out-of-hospital cardiac arrest - Resuscitation. *Resuscitation*.

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Conclusion: Our review provides a comprehensive overview of crowdsourcing technologies for bystander intervention in out-of-hospital cardiac arrest. Future work should focus on clinical outcomes and methods of addressing barriers to implementation.

New Ebooks and other resources

- Oxford Handbook of Pre-Hospital Care
- Communication in nursing and healthcare: a guide for compassionate practice
- An Introduction to Qualitative Research
- The SAGE Handbook of Coaching
- Tortora's principles of anatomy and physiology

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