



**Prehospital Emergency Services
Current Awareness Update
Issue 98, September/October/November 2022**

The aim of this Current Awareness Update is to provide a digest of information supporting evidence based practice in prehospital emergency services.

The issue name relates to when the contained articles were published- the bulletin is published the following month once the national bulletin has been issued.

This is an edited version of
the update for SCAS staff

You will need a **SCAS Athens account** to access resources
-register [here](#)

Need help accessing resources?

- email library.mailbox@nhs.net
- Visit <http://discoverylibrary.org/SCAS>
- ring 01752 439111 (Mon-Fri 0830-1730) – lead library
- Visit your [local NHS library](#)

Prehospital Emergency Services Current Awareness Update – Issue 98, Sep/Oct/Nov 2022

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:

[Prehospital Practitioners – Professional Development](#)

[Prehospital Research – Methods and Discussion](#)

[Diagnosis & Triage](#)

[Patient Profile](#)

[Helicopter Emergency Medical Services](#)

[On-Scene Interventions](#)

[Airway Management, Resuscitation & CPR](#)

[Covid-19 Papers](#)

[Further Research Needed](#)

[New ebooks and other resources](#)

Visit <http://discoverylibrary.org/SCAS>
to see all the information resources available to you including:

- ebooks
- databases
- journals
- point of care tools
- apps

Adibhatla, S., et al. (2022). A Systematic Review of Methodologies and Outcome Measures of Mobile Integrated Health-Community Paramedicine Programs . *Prehospital Emergency Care, Online First*.
Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Aengst J., e. a. (2022). Uncomfortable yet necessary: The impact of PPE on communication in emergency medicine. *International journal for quality in health care : journal of the International Society for Quality in Health Care*.
Click [here](#) to access fulltext (open access as of 15/12/2022)

Agarwal, G., et al. (2022). Paramedics' perspectives of the community paramedic role in Ontario, Canada . *Journal of Paramedic Practice, 14*(11).
Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Apps, K. (2022). Prevalence of stress disorders in frontline healthcare students . *Journal of Paramedic Practice, 14*(12).
Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Bradford, J. M., et al. (2022). Racial and Ethnic Disparity in Prehospital Pain Management for Trauma Patients. *Journal of the American College of Surgeons, Online First*.
Click [here](#) to access fulltext (open access as of 15/12/2022)

Carroll, A. G., Peddle, M. R., & Malik, G. (2022). Undergraduate paramedicine students' experiences of feedback during clinical placement on-road: a scoping review. *Nursing & health sciences*.
Click [here](#) to access fulltext (open access as of 15/12/2022)

Costello, B. (2022). One patient at a time... . *Journal of Paramedic Practice, 14*(11).
Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Crowther, M. E., et al. (2022). Physical and psychological health in intern paramedics commencing shift work: Protocol for an exploratory longitudinal study. *PloS one, 17*(12).
Click [here](#) to access fulltext (open access as of 15/12/2022)

Eaton, G. (2022). Advancing practice through the lens of patient care [article-commentary]. *Journal of Paramedic Practice*.
Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Ericsson, C. R., et al. (2022). Paramedics' perceptions of job demands and resources in Finnish emergency medical services: a qualitative study. *BMC health services research, 22*(1).
Click [here](#) to access fulltext (open access as of 15/12/2022)

Farcas, A. M., et al. (2022). Disparities in Emergency Medical Services Care Delivery in the United States: A Scoping Review . *Prehospital Emergency Care, Online First*.
Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Feng, X. (2022). Associations between professional identity and turnover intent in prehospital emergency physicians: The mediating effect of burnout. *Frontiers in public health, 10*.
Click [here](#) to access fulltext (open access as of 15/12/2022)

Freeman-May, A. (2022). Paramedic framework for learning and assessment [article-commentary]. *Journal of Paramedic Practice*, 14(12).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Hanna-Osborne, S., et al. (2022). 'You will never be as good as we are': a qualitative study of women paramedics' experiences of sex-based harassment in an Australian ambulance service. *British paramedic journal*, 7(2).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Harris, R., et. al. (2022). Mental health risk factors for shift work disorder in paramedics: A longitudinal study. *Sleep health*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Heys, S., et al. (2022). An exploration of maternity and newborn exposure, training and education among staff working within the North West Ambulance Service. *British paramedic journal*, 7(2).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Hodge, A., et al. (2022). Creating virtual communities of practice for ambulance paramedics: a qualitative evaluation of the use of Project ECHO in end-of-life care [Text]. *British Paramedic Journal*, 7(3).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Johnston, S., et al. (2022). Virtual reality: the future or a COVID-era plaster?. *Journal of Paramedic Practice*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Martin-Gil, C., et al. (2022). 2022 Systematic Review of Evidence-Based Guidelines for Prehospital Care . *Prehospital Emergency Care, Online First*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Martin-Gill, C., Panchal, A. R., Cash, R. E., Richards, C. T., Brown, K. M., Patterson, P. D., & Consortium, f. t. P. G. (2022). Recommendations for Improving the Quality of Prehospital Evidence-Based Guidelines . *Prehospital Emergency Care, Online First*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

McDonnell, A. J., et al. (2022). A mass distribution letter as an early intervention for potential frequent callers . *Journal of Paramedic Practice*, 14(11).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Merelman, A., et al. (2022). FINGER: A Novel Approach to Teaching Simple Thoracostomy - Air Medical Journal. *Air Medical Journal*, 41(6), 526-529.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Minna, S., et al. (2022). How to evaluate first aid skills after training: a systematic review *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 30(1), 1-11.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Péculo-Carrasco, J. A., et al. (2022). Factors influencing the perception of feeling safe in pre-hospital emergency care: A mixed-methods systematic review. *Journal of clinical nursing*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Phung, V. H., et al. (2022). The experiences and perceptions of wellbeing provision among English ambulance services staff: a multi-method qualitative study. *BMC health services research*, 22(1).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Pihl-Thingvad, J., et al. (2022). Critical Incidents Scale for Ambulance Work - Denmark (CISAW-D): the development of a screening tool for work exposure to critical events in operative ambulance personnel [Text]. *British Paramedic Journal*, 7(3).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Pilbery, R., et al. (2022). The effect of a specialist paramedic primary care rotation on appropriate non-conveyance decisions (SPRAINED) study: a controlled interrupted time series analysis. *British paramedic journal*, 7(1).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Poranen, A., et al. (2022). Perceived human factors from the perspective of paramedics – a qualitative interview study. *BMC Emergency Medicine*, 22(1), 1-12.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Rees, N. (2022). Heroism and paramedic practice: A constructivist metasynthesis of qualitative research. *Frontiers in psychology*, 13.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Ridyard, C., et al. (2022). Optimising ambulance conveyance rates and staff costs by adjusting proportions of rapid-response vehicles and dual-crewed ambulances: an economic decision analytical modelling study. *Emergency Medicine Journal, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Ritchie, D. T., & Doyle, C. (2022). Ergonomic impact of prehospital clinicians using body armour: A qualitative study. *Applied ergonomics*, 108.

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Rixon, A., et al. (2022). What factors help and hinder efforts to address incivility in Australasian emergency departments? A modified Delphi study of FACEM perspectives. *Emergency Medicine Australasia*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Russell, N., et al. (2022). 1674 The KnifeSavers bleeding control campaign: an evaluation of the public education programme. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Sebach, A.M., et al. (2022). Community Paramedicine Clinical Experience for Family Nurse Practitioner Students. *The Journal of nursing education*, 61(12).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Shearer, K., et al.,. (2022). Undergraduate Ethics Education in Paramedicine in Australia. *Journal of academic ethics*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Sokan, O., et al. (2022). Impact of a mobile integrated healthcare and community paramedicine program on improving medication adherence in patients with heart failure and chronic obstructive pulmonary disease after hospital discharge: A pilot study. *Exploratory research in clinical and social pharmacy*, 8.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Sujan, M., et al. (2022). Assuring safe artificial intelligence in critical ambulance service response: study protocol. *British paramedic journal*, 7(1).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Supples, M. W., et al. (2022a). Emergency Medical Services Clinicians Have a High Prevalence of Metabolic Syndrome . *Prehospital Emergency Care, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Supples, M. W., et al. (2022b). Patient Demographics Are Associated with Differences in Prehospital Pain Management among Trauma Patients . *Prehospital Emergency Care, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Taylor, Josie & McClelland, Graham (2022). A qualitative exploration of the views of paramedics regarding the identification of cardiovascular risk factors in the pre-hospital environment. *British paramedic journal*, 7(1).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Tunks Leach., K., et al. (2022). The Role and Value of Chaplains in an Australian Ambulance Service: A Comparative Study of Chaplain and Paramedic Perspectives. *Journal of religion and health*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Zachrisson, K. S. (2022). Prehospital Stroke Care Part 1: Emergency Medical Services and the Stroke Systems of Care. *Stroke*.

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Zhu, X., et al. (2022). The application of pre-hospital first aid mode in patients with acute stroke: meta-analysis. *Folia neuropathologica*, 60(3).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Prehospital Research – Methods and Discussion

Callihan, M., et al. (2022). Understanding Research: The Importance of Research Mentors. *Journal of Emergency Nursing*, 48(6), 642-643.

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Jarman, H., Halter, M., Moss, P., & Seel, C. (2022). 1397 'I don't have time': strategies for increasing research engagement in emergency department clinicians. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Newman, M. (2022). Research protocol for delivering on the front line: a qualitative exploration of paramedics' experiences of providing pre-hospital maternity care in the United Kingdom [Text]. *British Paramedic Journal*, 7(3).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Snelling, P. J., et al. (2022). Establishing the international research priorities for pediatric emergency medicine point-of-care ultrasound: A modified Delphi study - Snelling - 2022 - *Academic Emergency Medicine, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Whitley, G. A. W., C. (2022). Paramedics . . . Why do research? *British paramedic journal*, 7(1).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Wilson, C., et al. (2022). Identity, positionality and reflexivity: relevance and application to research paramedics. *British paramedic journal*, 7(2).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Diagnosis and Triage

Charlton, K., et al. (2022). Measuring frailty and its association with key outcomes in the ambulance setting: a cross sectional observational study. *BMC geriatrics*, 22(1).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Cowley, A., et al. (2022). Recommendation for changes to the guidelines of trauma patients with potential spinal injury within a regional UK ambulance trust [Text]. *British Paramedic Journal*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Devlin, S., (2022). Not so FAST: pre-hospital posterior circulation stroke. *British paramedic journal*, 7(1).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Gao, Z., et al. (2022). Identification of high-risk factors for prehospital delay for patients with stroke using the risk matrix methods. *Frontiers in public health*, 10.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Glober, N. K., et al. (2022). Factors Predicting Misidentification of Acute Ischemic Stroke and Large Vessel Occlusion by Paramedics. *Critical pathways in cardiology*, 21(4).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Heppenstall, E., et al. (2022). Documentation of atrial fibrillation among non-conveyed ambulance patients: a new primary prevention opportunity? *British paramedic journal*, 7(1).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Lee, J. H., et al. (2022). Clinical Frailty Scale as a predictor of short-term mortality: A systematic review and meta-analysis of studies on diagnostic test accuracy - Lee - 2022 - *Academic Emergency Medicine, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Maek, T., Fochtman, U., von Loewenich, A. et al. (2022). Is prehospital intubation of severely injured children in accordance with guidelines? *BMC emergency medicine*, 22(1).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Miles, J., et al. (2022). The Safety INdEx of Prehospital On Scene Triage (SINEPOST) study: The development and validation of a risk prediction model to support ambulance clinical transport decisions on-scene. *PloS one*, 17(11).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Petersen, J.A.D., Blomberg, S.N., Lippert, F. et al. (2022). Characteristics of low acuity prehospital emergency patients with 48-h mortality, an observational cohort study. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 30(1).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Ruffin, F., et al. (2022). Exploration of pre-hospital patient delays in seeking care for symptoms of bacteremia and sepsis: A qualitative study. *Nursing open*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Tavaré, A. (2022). NEWS2 in out-of-hospital settings, the ambulance and the emergency department. *Clinical medicine (London, England)*, 22(6).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Wallgren, U. M., et al. (2022). Association between variables measured in the ambulance and in-hospital mortality among adult patients with and without infection: a prospective cohort study. *BMC emergency medicine*, 22(1).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Patient Profile

Young People

Gee, B., et al. (2022). 'Very hit and miss': an interpretive phenomenological analysis of ambulance service care for young people experiencing mental health crisis. *British paramedic journal*, 7(1).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Sullivan, T. M., et al.,. (2022). Evaluation of Missing Prehospital Physiological Values in Injured Children and Adolescents. *The Journal of surgical research*, 283.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Older People

Joiner, A., et al. (2022). Predictors of Non-Transport for Older Adult EMS Patients Encountered for Falls . *Prehospital Emergency Care, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Lau, L., et al. (2022). Trauma in the Aging Population - *Emergency Medicine Clinics of North America*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Nicholson, H., et al. (2022). Factors influencing conveyance of older adults with minor head injury by paramedics to the emergency department: a multiple methods study [OriginalPaper]. *BMC Emergency Medicine*, 22(1), 1-8.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Passarelli, K., et al. (2022). Challenges of prehospital silver trauma patients . *Journal of Paramedic Practice*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Tonkins, M., et al. (2022). 1358 The association between major trauma centre care and outcomes of adult patients injured by low falls in England and Wales. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Children

Scott, J., et al. (2022). Paediatric frequent use of emergency medical services: a systematic review. *Emergency Medicine Journal, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Ward, C. E., et al. (2022). Clinician and Caregiver Determinations of Acuity for Children Transported by Emergency Medical Services: A Prospective Observational Study. *Annals of Emergency Medicine*, 0(0).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Helicopter Emergency Medical Services

Barnard, E., et al. (2022). 1767 A survey to define the pre-hospital blood resuscitation practices of UK Air Ambulances. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Baxter, J. T., & Jones, S., (2022). EMS Crew Characteristics: The Providers' Perspective On Patient Impacts—A Pilot Study. *Air Medical Journal*, 41(6), 571.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Carenzo, L., et al. (2022). A Framework for Case-Based Learning in Prehospital Medicine: The London's Air Ambulance Experience - *Air Medical Journal*. 41(6), 521-525.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Edwards, K. H., et al. (2022). Using a Quality Framework to Explore Air Ambulance Patients' Journey Outcomes in Central Queensland, Australia. *Prehospital and disaster medicine*.

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Greene, N. D., et al., (2022). Neonatal Vital Sign Trajectories and Risk Factors During Transport Within a Regional Care Network - *Air Medical Journal*, 41(6), 542-548.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Hartmann, K., et al. (2022). Ground Versus Air: Which Mode of Emergency Medical Service Transportation Is More Likely to Crash? *Air Medical Journal*, 0(0).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Hilbert-Carius, P. (2022). Do we need pre-hospital resuscitative endovascular balloon occlusion of the aorta (REBOA) in the civilian helicopter emergency medical services (HEMS)? *Internal and emergency medicine*.

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Lee, K., & Lee, J. (2022). Comparative Study on the Outcome of Trauma Patients Transferred by Doctor Helicopters and Ground Ambulance in South Korea. *Disaster medicine and public health preparedness*.

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Leonard, A., et al. (2022). Improving First Attempt Success Rates in Neonatal and Pediatric Critical Care Transport Field Intubations. *Air Medical Journal*, 41(6), 573.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Kothari, A. R., et al. (2022). Correlation of Preflight Risk Assessment Scores With First-Pass Intubation Success in a Critical Care Transport Environment. *Air Medical Journal*, 0(0).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Kushida, Y., et al. (2022). A Comparison of Tube Thoracostomy for Chest Trauma Between Prehospital and Inhospital Settings. *Air Medical Journal*, 0(0).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Morton, S., et al. (2022). The Prehospital Emergency Anaesthetic in 2022. *Air medical journal*, 41(6).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Shekhar, A. C., & Blimen, I.J.,. (2022). Full Moons and Helicopter Emergency Medical Services (HEMS) Activations in The United States. *Air Medical Journal*, 0(0).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Shekhar, A. C., et al. (2022). Mechanical Cardiopulmonary Resuscitation's Role in Helicopter Air Ambulances: A Narrative Review - *Air Medical Journal*, 41(6), 556-559.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Specht, H., Knierim, S., & Cole, C. (2022). Helicopter Versus Ground Transport for Trauma Victims: A Scoping Review. *Air Medical Journal*, 41(6), 573.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Walton, M., et al.,. (2022). A Psychological Resilience Briefing Intervention for Helicopter Emergency Medical Service Observers - *Air Medical Journal*, 41(6), 549-555.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Yates, J. G., et al. (2022). Air Medical Ultrasound: Looking Back to See What We Have Learned for the Future - *Air Medical Journal*, *Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

On-Scene Interventions

*** SCAS context *** Dixon, M., et al. (2022). Time intervals and distances travelled for prehospital ambulance stroke care: data from the randomised-controlled ambulance-based Rapid Intervention with Glyceryl trinitrate in Hypertensive stroke Trial-2 (RIGHT-2). *BMJ open*, 12(11).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Aldred, D., et al. (2022). Critical care paramedics' experiences of performing an emergency scalpel cricothyroidotomy: a qualitative study. *British paramedic journal*, 7(1).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Brown, N., et al. (2022). A retrospective cohort study of pre-hospital agitation management by advanced paramedic practitioners in critical care [Text]. *British Paramedic Journal*, 7(3).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Dawson, L.P., et al. (2022). The influence of ambulance offload time on 30-day risks of death and re-presentation for patients with chest pain. *The Medical journal of Australia*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Ferguson, I., et al. (2022). The effect of ketamine and fentanyl on haemodynamics during intubation in prehospital and retrieval medicine. *Acta anaesthesiologica Scandinavica*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Freshwater, E. (2022). 1337 Evaluation of a trauma unit bypass tool in predicting major trauma. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Harrington, C., et al. (2022). Serratus Anterior Plane Block for Clinically Suspected Rib Fractures in Prehospital and Retrieval Medicine . *Prehospital Emergency Care, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Hibberd, O., et al. (2022). 1665 In paediatric trauma patients is prehospital bypass compared to secondary transfer associated with reduced hospital and intensive care unit length of stay? A retrospective observational study. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Hosomi, S., et al. (2022). Sex disparities in prehospital advanced cardiac life support in out-of-hospital cardiac arrests in Japan. *The American journal of emergency medicine*, 64.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Howard, J., et al. (2022). Pre-hospital guidelines for CPR-Induced Consciousness (CPRIC): A scoping review. *Resuscitation plus*, 12.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Hutchinson, A. (2022). Mixed-methods feasibility cluster randomised controlled trial of a paramedic-administered breathlessness management intervention for acute-on-chronic breathlessness (BREATHE): study findings. *ERJ open research*, 8(4).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Jacobsen, R. C., et al., (2022). Out-of-Hospital Cold Water Immersion for Classic (Non-Exertional) Heat Stroke Guided by Real-Time Core Temperature Monitoring: A Case Series . *Prehospital Emergency Care, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Kratz, M., et al., (2022). 1755 The differential determinants of delivering prehospital emergency anaesthesia within 45-minutes of the 999-call – a multi-centre, retrospective observational study. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Ljungqvist, H., et al. (2022). Intubation first-pass success in a high performing pre-hospital critical care system is not associated with 30-day mortality: a registry study of 4496 intubation attempts. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 30(1).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Lorente, S., et al. (2022). Effectiveness of Procedural Sedation and Analgesia in Pediatric Emergencies. A Cross-Sectional Study. *Journal of Emergency Nursing*, 0(0).

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

McInnes, J. e. a. (2022). Medical retrieval of pregnant women in labour: A scoping review. *Australasian Emergency Care*, 0(0).

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Munro, S., et al.,. (2022). The pre-hospital 12-lead electrocardiogram is associated with longer delay and worse outcomes in patients presenting to emergency medical services with acute stroke: a linked cohort study. *British paramedic journal*, 7(2).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

Murray, J., et al. (2022). 1473 In patients with chest pain suspicious for ACS, is arrival by emergency ambulance associated with increased likelihood of myocardial infarction? *Emergency Medicine Journal*(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Noble, A. J., et al. (2022). Supporting the ambulance service to safely convey fewer patients to hospital by developing a risk prediction tool: Risk of Adverse Outcomes after a Suspected Seizure (RADOSS)-protocol for the mixed-methods observational RADOSS project. *BMJ open*, 12(11).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Otaka, S., et al.,. (2022). Factors Associated with an Increase in On-Site Time of Pediatric Trauma Patients in a Prehospital Setting: A Nationwide Observational Study in Japan. *Children (Basel, Switzerland)*, 9(11).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Petrosomiak, A., et al. (2022). Massive Hemorrhage Protocol - *Emergency Medicine Clinics of North America.*, 41(1), 51-69.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Piaseczny, M., et al. (2022). Protect That Neck! Management of Blunt and Penetrating Neck Trauma - *Emergency Medicine Clinics*, 41(1), 25-49.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Prehospital Bundle of Care Based on Antibiotic Therapy and Hemodynamic Optimization Is Associated With a 30-Day Mortality Decrease in Patients With Septic Shock: Erratum. (2022). *Critical care medicine*, 50(12).

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Price, J., et al. (2022a). 1490 Intubation success in prehospital emergency anaesthesia: a retrospective observational analysis of the Inter-Changeable Operator Model (ICOM). *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Price, J., et al. (2022b). 1491 Determinants of post-intubation hypotension in trauma patients following prehospital emergency anaesthesia. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Reid, C., et al. (2022). Prehospital Ultrasound-Guided Pediatric Fascia Iliaca Block. *Air Medical Journal*, 0(0).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Sinclair, J. E., et al. (2022). Patient and Prehospital Predictors of Hospital Admission for Patients With and Without Histories of Diabetes Treated by Paramedics for Hypoglycemia: A Health Record Review Study. *Prehospital Emergency Care*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Strayer, R. J. (2022). Management of Pain and Agitation in Trauma - Emergency Medicine Clinics. *Emergency Medicine Journal*, 41(1).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Stupca, K., et al. (2022). Esmolol, vector change, and dose-capped epinephrine for prehospital ventricular fibrillation or pulseless ventricular tachycardia. *The American journal of emergency medicine*, 64.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Airway Management, Resuscitation & CPR

Alqudah, Z., et al. (2022). The impact of a high-performance cardiopulmonary resuscitation protocol on survival from out-of-hospital cardiac arrests witnessed by paramedics. *Resuscitation plus*, 12.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Benoit, J. L., et al., (2022). Ventilation rates measured by capnography during Out-of-Hospital cardiac arrest resuscitations and their association with return of spontaneous circulation. *Resuscitation*, 0(0).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Blair, L., & Duffy, R., (2022). What are ambulance crews' experiences of using a mechanical chest compression device for out-of-hospital resuscitation? A constructivist qualitative study utilising online focus groups. *British paramedic journal*, 7(2).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

D'Agostino, F., et al. (2022). Specific theoretical and practical education on mechanical chest compression during advanced life support training courses – Results from a local experience *Resuscitation*, 181, 147-149.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Deri, Y., et al.,. (2022). The Impact of Prehospital and Hospital Care on Clinical Outcomes in Out-of-Hospital Cardiac Arrest. *Journal of clinical medicine*, 11(22).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Itagaki, Y., et al. (2022). Early prediction model of brain death in out-of-hospital cardiac arrest patients: a single-center retrospective and internal validation analysis [OriginalPaper]. *BMC Emergency Medicine*, 22(1), 1-8.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Matsuyama, T., Kiyohara, K., Kitamura, T. *et al.* (2022). Public-access defibrillation and favorable neurological outcome after out-of-hospital cardiac arrest during the COVID-19 pandemic in Japan. *Critical care (London, England)*, 26(1).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Pemberton, K., et al. (2022). Pre-hospital predictors of long-term survival from out-of-hospital cardiac arrest. *Australasian Emergency Care*, 0(0).

Click [here](#) to access abstract, go to <https://ambulance.libguides.com/document> to request fulltext

Perman, S., et al. (2022). Is all bystander CPR created equal? Further considerations in sex differences in cardiac arrest outcomes. *Resuscitation*, 0(0).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Smith, N., & Douglin, T. (2022). Lateral versus over-the-head chest compression quality in student paramedic. *Journal of Paramedic Practice*, 14(11).

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Wahlster, S., et al. (2022). Factors Associated with Early Withdrawal of Life-Sustaining Treatments After Out-of-Hospital Cardiac Arrest: A Subanalysis of a Randomized Trial of Prehospital Therapeutic Hypothermia. *Neurocritical care*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Wyckoff, M. H., et al. (2022). 2022 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations: Summary From the Basic Life Support; Advanced Life Support; Pediatric Life Support; Neonatal Life Support; Education, Implementation, and Teams; and First Aid Task Forces. *Resuscitation*, 0(0).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Covid-19 Papers

Bernard-Valnet et al. (2022). Delirium in Adults With COVID-19-Related Acute Respiratory Distress Syndrome: Comparison With Other Etiologies. *Neurology*, 99(20).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Bíró, K., et al. (2022). The Emergency Performance of the Hungarian Ambulance Service during the COVID-19 Pandemic. *Healthcare (Basel, Switzerland)*, 10(11).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Brennan, M., Steil, J., Dyer, S. *et al.* (2022). Policy-Relevant Indicators of Urban Emergency Medical Services COVID-19-Patient Encounters. *Journal of urban health : bulletin of the New York Academy of Medicine*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Chegini, N., et al. (2022). Investigating the role of predictive death anxiety in the job satisfaction of pre-hospital emergency personnel during the COVID-19 pandemic [OriginalPaper]. *BMC Emergency Medicine*, 22(1), 1-7.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Darwis, OA., e. a. (2022). Adherence to Personal Protective Equipment Guidelines During the COVID-19 Pandemic Among Health Care Personnel in the United States. *Disaster medicine and public health preparedness*, 16(4).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Fishe, J. N., et al., (2022). Prehospital Pediatric Asthma Care during COVID-19: Changes to EMS Treatment Protocols and Downstream Clinical Effects . *Prehospital Emergency Care, Online First*.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

Hasan M., e. a. (2022). Pre-hospital prediction of adverse outcomes in patients with suspected COVID-19: Development, application and comparison of machine learning and deep learning methods. *Computers in biology and medicine*, 151(Pt A).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Jaffe, E., et al. (2022). Responses of a Pre-hospital Emergency Medical Service During Military Conflict Versus COVID-19: A Retrospective Comparative Cohort Study. *Military medicine*, 187(11-12).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Kienbacher, C. L., et al. (2022). Increases in Ambulance Call Volume Are an Early Warning Sign of Major COVID-19 Surges in Children. *International journal of environmental research and public health*, 19(23).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Marincowitz, C., et al. (2022). 1427 The effect of the COVID-19 pandemic on major trauma presentations and patient outcomes in English hospitals. *Emergency Medicine Journal*, 39(12).

Click [here](#) to access fulltext-conference abstract- (open access as of 15/12/2022)

Myers, M., et al. (2022). An Ethical Analysis of the Arguments Both for and Against COVID-19 Vaccine Mandates for Healthcare Workers. *Journal of Emergency Medicine*, 0(0).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Stirparo, G., et al. (2022). Changes to the Major Trauma Pre-Hospital Emergency Medical System Network before and during the 2019 COVID-19 Pandemic. *Journal of clinical medicine*, 11(22).

Click [here](#) to access fulltext (open access as of 15/12/2022)

Yu, Y., et al. (2022). Evaluation of cardiopulmonary resuscitation quality during the pandemic of COVID-19 [OriginalPaper]. *BMC Emergency Medicine*, 22(1), 1-6.

Click [here](#) to access fulltext (open access as of 15/12/2022)

Further Research Needed

Carroll, A. G., Peddle, M. R., & Malik, G. (2022). **Undergraduate paramedicine students' experiences of feedback during clinical placement on-road: a scoping review.** *Nursing & health sciences*.

Click [here](#) to access fulltext (open access as of 15/12/2022)

CONCLUSION: Feedback is valued by paramedicine students; however, it can be personal and destructive in nature. Paramedics are enthusiastic and supportive and provide clear feedback. Paramedics face challenges supervising students and may lack preparation to provide feedback. There is limited evidence on paramedicine students' experiences of feedback during clinical placement. **Further exploration is needed to gain further understanding.**

Hanna-Osborne, S., et al. (2022). **'You will never be as good as we are': a qualitative study of women paramedics' experiences of sex-based harassment in an Australian ambulance service.** *British paramedic journal*, 7(2).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

CONCLUSION: Sex-based harassment has a range of damaging consequences for victims and the organisations in which they work. This study is the first to explore how Australian women paramedics experience sex-based harassment in their work. The study has implications for policy and practice to improve gender equality within ambulance services and highlights the need for further research into the extent and nature of the problem across the paramedic profession.

Taylor, Josie & McClelland, Graham (2022). **A qualitative exploration of the views of paramedics regarding the identification of cardiovascular risk factors in the pre-hospital environment.** *British paramedic journal*, 7(1).

Available [here](#) to College of Paramedics members. Click [here](#) to access abstract. Go to <https://ambulance.libguides.com/document> to request fulltext

CONCLUSION: The study explored the views of a small sample of paramedics on this topic. Patient education was felt to be part of a paramedic's role; however, barriers were identified that prevent paramedics from carrying out this role. **Further research is needed to explore these barriers further.**

Shekhar, A. C., et al. (2022). **Mechanical Cardiopulmonary Resuscitation's Role in Helicopter Air Ambulances: A Narrative Review.** *Air Medical Journal*, 41(6), 556-559.

Click [here](#) to access fulltext- SCAS Athens required (register [here](#)). Click [here](#) to access free abstract

SUMMARY: Many aspects of the HEMS environment seem uniquely conducive to mCPR, and a growing body of research seems to suggest mCPR [mechanical CPR] holds promise for the treatment of cardiac arrest by HEMS clinicians. Simulation studies show that mCPR leads to improved CPR performance compared with manual CPR in HEMS. Case reports and the experience of several HEMS programs suggest that mCPR can be effectively integrated into HEMS care. **However, further research regarding the effectiveness of mCPR in the HEMS environment and in general cardiac arrest care is needed.**

Miles, J., et al. (2022). **The Safety INdEx of Prehospital On Scene Triage (SINEPOST) study: The development and validation of a risk prediction model to support ambulance clinical transport decisions on-scene.** *PloS one*, 17(11).

Click [here](#) to access fulltext (open access as of 15/12/2022)

SUMMARY: This study can conclude that it is possible, with good accuracy to predict an avoidable ambulance conveyance to the ED using prehospital clinical data. The XGBoost model developed here, known as the SINEPOST model, can discriminate between those with non-urgent needs and

those without. It can also accurately provide what the probability of an avoidable conveyance is. The model does not bias different ages, ethnicities, genders, or Indices of Deprivation. It is robust to all different prehospital settings. If this Fig was applied to national level data in England, the predictive model could support 85,560 conveyance decisions per month to change to non-conveyance. This is based on the latest NHS England Ambulance Quality Indicators which identified 372,002 ambulance transports to the ED in November 2021 [43]. However, to maximise its potential if it was to be transformed into a computerised clinical decision support tool; there needs to be a more robust definition of what an avoidable conveyance should be. It is recommended to revise the taxonomy of prehospital patients according to the care setting they need, as opposed to the paradigm of describing patient acuity. This has shown success in Canada already, with a computer algorithm demonstrating it is possible to redirect nonemergent patients away from the ED towards sub-acute centres such as walk-in centres. This had both system and patient benefits (such as patient satisfaction).

It would also be beneficial to undertake studies into the risk tolerance of policy makers, ambulance services and the public when it comes to transporting low- or mid-acuity patients to the ED.

New Ebooks and other resources

New ebooks

- [Complex Breathlessness](#)
- [Essentials of Anatomy and Physiology](#)
- [Eureka: Physiology](#)
- [Gray's Basic Anatomy](#)
- [Hagberg and Benumof's airway management](#)
- [JRCALC clinical guidelines 2022](#)
- [Prehospital Emergency Medicine Secrets](#)
- [SAGES Manual of Quality, Outcomes and Patient Safety](#)
- [Traumatic Brain Injury : Science, Practice, Evidence and Ethics](#)

SCAS Athens account required (register [here](#))

Visit <http://discoverylibrary.org/SCAS>
to see all the information resources available to you including:

- ebooks
- databases
- journals
- point of care tools
- apps

Feedback to

library.mailbox@nhs.net

Discovery Library, Derriford Hospital, Plymouth- lead library for SCAS