



Welcome to January/February 2022 issue of the  
Prehospital Emergency Services Current Awareness Update.

**NEW The Knowledge and Library Hub**

Healthcare evidence and knowledge now a simple search away

NHS Knowledge  
and Library Services

**NHS**  
Health Education England

# Your NHS Knowledge and Library Hub is here

## Over 7,000 journals all in one place

[www.library.nhs.uk/knowledgehub](http://www.library.nhs.uk/knowledgehub)

The new, Health Education England funded [NHS Knowledge and Library Hub](http://www.library.nhs.uk/knowledgehub) brings together a vast range of databases, journals, NICE guidance and other support tools in one place.

Designed to give you quick and easy access through a secure online platform, we hope this will help you locate evidence for research, professional development and patient care.

Particularly useful for researchers, the content includes:

- over 7,000 journals
- books and e-publications, including OUP handbooks
- one-click access to full-text, request a copy or contact an NHS library
- clinical decision support tools such as BMJ Best Practice
- NICE pathways and guidelines
- databases like Medline, EMBASE, CINAHL and PsycInfo.

The Hub provides free access to all the HEE core content and additional content provided by your local NHS health care library. Once you have signed in with your [NHS OpenAthens account](#), you can tap into the same system wherever you are based.

[Start your search](#) or learn more through [our short user guides](#).

## Research and Best Practice

The following research papers have been published in the last couple of months. The papers have been arranged by the topic headings below: *(Ctrl & Click on the heading to go straight to that section)*

[Prehospital Practitioners – Professional Development](#)

[Prehospital Research – Methods and Discussion](#)

[Diagnosis & Triage](#)

[Patient Profile](#)

[Helicopter Emergency Medical Services](#)

[On-Scene Interventions](#)

[Airway Management, Resuscitation & CPR](#)

[Further Research Needed](#)

You can request papers through LKS ASE or through your local library service. You may also access papers using your NHS OpenAthens account. Some papers may be available as Open Access.

You can find the complete **archive** of the .pdf version of Prehospital Emergency Services Current Awareness Update at the link below.

<https://ambulance.libguides.com/currentawareness>



- Alsharari, A., et al. (2022). Workplace violence towards emergency nurses: A cross-sectional multicenter study - Australasian Emergency Care. *Australasian Emergency Care*, 25(2), 48-54. <https://doi.org/doi:10.1016/j.auec.2021.01.004>
- Berglund, E., et al. (2022). Wellbeing, emotional response and stress among lay responders dispatched to suspected out-of-hospital cardiac arrests - Resuscitation. *Resuscitation*, 170(352-360). <https://doi.org/doi:10.1016/j.resuscitation.2021.11.005>
- Blackmore, T.A. (2022). What is the role of paramedics in palliative and end of life care? *Palliative Medicine*. <https://doi.org/10.1177/02692163211073263>
- Carrigan, S., et al. (2022). The Prevalence and Characteristics of Non-Transports in a Provincial Emergency Medical Services System: A Population-Based Study. *Journal of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.jemermed.2021.12.009>
- 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 [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/UPEC-2020-0496.R1>
- Cho, Y.-J., Han, Y.-R., Jeong, Y.-W., & ywjeong@dongguk.ac.kr. (2022). Professional Self-Concept, Job Stress, and Triage Competency Among Emergency Nurses: Secondary Data Analysis of a Cross-Sectional Survey. *Journal of Emergency Nursing*, 0(0). <https://doi.org/10.1016/j.jen.2022.01.010>
- Falka, A-C., & Lindström, V., et al. (2022). Self-reported clinical competence before entering advanced level training in acute and prehospital emergency care among registered nurses in Sweden. *International emergency nursing*, 61. <https://doi.org/10.1016/j.ienj.2022.101146>
- Farcas, A. M., et al. (2021). Implementing a Patient Tracking System in a Large EMS System [other]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1883166>
- Gaither, J., B., et al. (2022). Impact of In-Station Medication Automated Dispensing Systems On Prehospital Pain Medication Administration [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2045405>
- Gao, Z., et al. (2022). Identification and analysis of key risk factors for prehospital delay in patients with stroke. *International emergency nursing*, 62. <https://doi.org/10.1016/j.ienj.2022.101156>
- Gugiu, M. R., et al. (2022). A Proposed Theoretical Framework for Clinical Judgment in EMS [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2048756>
- Prehospital Emergency Services Current Awareness Update – Issue 94, January/February 2022*

- Heinonen, K. et al. (2022). Ambulance crew-initiated non-conveyance in the Helsinki EMS system-A retrospective cohort study. *Acta anaesthesiologica Scandinavica*, Online ahead of print. <https://doi.org/10.1111/aas.14049>
- Jensen, J.L., et al. (2022). Care begins when 9-1-1 is called: the evolving role of paramedic specialists in EMS Medical Communications Centres. *CJEM*, 24(2). <https://doi.org/10.1007/s43678-022-00284-2>
- Kienbacher, C. L., et al. (2022). Factors influencing door-to-triage- and triage-to-patient administration-time. *Australasian Emergency Care*, 0(0). <https://doi.org/10.1016/j.auec.2022.01.001>
- Koper, J., & White, J.,. (2022). Driving as a Perishable Skill: Organizational Benefits of EVOC Training and Video Telematics. *Air Medical Journal*, 41(1), 33. <https://doi.org/10.1016/j.amj.2021.11.013>
- Mahadevan, K., et al., (2022). Impact of paramedic education on door-to-balloon times and appropriate use of the primary PCI pathway in ST-elevation myocardial infarction. *BMJ open*, 12(2). <https://doi.org/10.1136/bmjopen-2020-046231>
- Mason, R., et al. (2022). Ambulance attendance for substance and/or alcohol use in a pandemic: Interrupted time series analysis of incidents. *Drug and alcohol review*. <https://doi.org/10.1111/dar.13453>
- Norii, T., et al. (2022). Driving Ambulances Safely: Findings of Ten Years of Japanese Ambulance Crash Data [research-article]. *Prehospital Emergency Care*. <https://doi.org/https://doi.org/10.1080/10903127.2021.2015026>
- Panchal, A. R., et al. (2021). Methods and Implementation of the 2019 EMS Practice Analysis [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2020.1856985>
- Rappaport, L. D. e. a. (2022). Medication Errors in Pediatric Patients after Implementation of a Field Guide with Volume-Based Dosing [other]. *Prehospital Emergency Carre, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2025962>
- Renshaw, J., Halter, M., & Quinn, T. (2022). Protocol for a scoping review on the development of policy, guidelines and protocols within emergency medical services [Text]. *British Paramedic Journal*, 6(4), 48-54. <https://doi.org/info:doi/10.29045/14784726.2022.03.6.4.48>
- Richards, C. T., et al. (2021). Priorities for Prehospital Evidence-Based Guideline Development: A Modified Delphi Analysis [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1894276>
- Ross, L. J., et al. (2022). Out-of-hospital or pre-hospital: Is it time to reconsider the language used to describe and define paramedicine? *Australasian Emergency Care*, 0(0). <https://doi.org/10.1016/j.auec.2022.01.002>
- Shanahan, T. e. a. (2022). 808 Changing nature of major trauma from 2000 to 2019 in England and Wales: observational registry study. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-RCEM.4>

- Shepard, K., Spencer, S., Kelly, C., & Wankhade, P. (2022). Staff perceptions of patient safety in the NHS ambulance services: an exploratory qualitative study [Text]. *British Paramedic Journal*, 6(4), 18-25. <https://doi.org/info:doi/10.29045/14784726.2022.03.6.4.18>
- Smith, C. J., & Burr, W.S., (2022). Ineffectiveness of Paramedic Naloxone Administration as a Standalone Metric for Community Opioid Overdoses and the Increasing Use of Naloxone by Community Members [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2033895>
- Smith, H., & Doughty, H. (2022). Training trial of critical care paramedics for non-medical authorisation of blood [Text]. *British Paramedic Journal*, 6(4), 55-59. <https://doi.org/info:doi/10.29045/14784726.2022.03.6.4.55>
- Stoecklein, H. H., et al. (2022). Paramedic rhythm interpretation misclassification is associated with poor survival from out-of-hospital cardiac arrest - Resuscitation. *Resuscitation*, 171, 33-40. <https://doi.org/doi:10.1016/j.resuscitation.2021.12.016>
- Strum, R.P., et al. (2021). Identifying patient characteristics associated with potentially redirectable paramedic transported emergency department visits in Ontario, Canada: a population-based cohort study. *BMJ open*, 11(12). <https://doi.org/10.1136/bmjopen-2021-054625>
- Tanabe, R., et al. (2022). Emotional work stress reactions of emergency medical technicians involved in transporting out-of-hospital cardiac arrest patients with "do not attempt resuscitation" orders - Resuscitation. *Resuscitation*, 173, 61-68. <https://doi.org/doi:10.1016/j.resuscitation.2022.01.028>
- Taylor, C., et al. (2022). 'The WOW factors': comparing workforce organization and well-being for doctors, nurses, midwives and paramedics in England. *British medical bulletin, Online First*. <https://doi.org/10.1093/bmb/ldac003>
- Todd, V. F., et al. (2021). Factors Associated with Emergency Medical Service Reattendance in Low Acuity Patients Not Transported by Ambulance [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/UPEC-2019-0541.R3>
- Vigil, N. H., et al. (2022). Suicide Among the Emergency Medical Systems Occupation in the United States - The Western Journal of Emergency Medicine. *Western Journal of Emergency Medicine*, 22(2). <https://doi.org/10.5811/westjem.2020.10.48742>
- Waldrop, D. P. e. a. (2021). Prehospital Providers' Perspectives about Online Medical Direction in Emergency End-of-Life Decision-Making [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2020.1863532>
- Ward, C. E., et al. (2022a). The Effect of Documenting Patient Weight in Kilograms on Pediatric Medication Dosing Errors in Emergency Medical Services [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/10.1080/10903127.2022.2028045>
- Wilson, C., et al. (2022). The role of feedback in emergency ambulance services: a qualitative interview study. *BMC health services research*, 22(1). <https://doi.org/10.1186/s12913-022-07676-1>



- Wu., Y., et al. (2022). Effect of pre-hospital early intervention combined with an in-hospital emergency model in the emergency care of patients with acute stroke. *American journal of translational research*, 14(1). <https://pubmed.ncbi.nlm.nih.gov/35173885/>
- Yap, J., et al. (2022). Rationale for withholding professional resuscitation in emergency medical system-attended out-of-hospital cardiac arrest - Resuscitation. *Resuscitation*, 170, 201-206. <https://doi.org/doi:10.1016/j.resuscitation.2021.12.010>

## Prehospital Research – Methods and Discussion

Request  
an article



To see the full text you can request papers through the [LKS ASE Request an Article Service](#) or through your local library service. You may also access papers using your [NHS OpenAthens account](#). Some papers may be available as Open Access.

- Stemerman, R., et al. (2021). Identifying Patient Phenotype Cohorts Using Prehospital Electronic Health Record Data [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/201668012>

## Helicopter Emergency Medical Services (HEMS) and Air Medical

Request  
an article



To see the full text you can request papers through the [LKS ASE Request an Article Service](#) or through your local library service. You may also access papers using your [NHS OpenAthens account](#). Some papers may be available as Open Access.

- Bredmose, P. P., et al. (2022). Prehospital Care: An International Comparison of Independently Developed Training Courses - Air Medical Journal. *Air Medical Journal*, 41(1), 73-77. <https://doi.org/doi:10.1016/j.amj.2021.10.009>
- Brown, L., et al. (2022). Air Medical Administration of Whole Blood Versus Packed Red Blood Cells for Trauma Patients. *Air Medical Journal*, 41(1), 33. <https://doi.org/10.1016/j.amj.2021.11.012>
- Frascone, R., et al. (2022). Automated Versus Manual Cardiopulmonary Resuscitation in Flight: Are We Being Safe? *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2022.02.002>
- Hutin, A. e. a. (2021). First Description of a Helicopter-Borne ECPR Team for Remote Refractory Out-of-Hospital Cardiac Arrest [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/UPEC-2020-0383.R1>
- Kunkel, S., Lenz, T.,. (2022). Hemodynamics in Helicopter Emergency Medical Services (HEMS) Patients Undergoing Rapid Sequence Intubation With Etomidate or Ketamine - Journal of Emergency Medicine. *Journal of Emergency Medicine*, 62(2), 163-170. <https://doi.org/doi:10.1016/j.jemermed.2021.10.004>
- Mercer, J. (2022). 774 Survey to investigate the current use of pre-hospital blood product by air ambulance services in the United Kingdom. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-RCEM.29>

- Mikati, N., et al. (2021). The Effect of Blood Transfusion during Air Medical Transport on Transport Times in Patients with Ruptured Abdominal Aortic Aneurysm [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2020.1868636>
- Morton, S., et al. (2022). Helicopter Emergency Medical Services Out-of-Hospital Cardiac Arrests During the Initial COVID-19 Lockdown Versus Nonpandemic: A Comparison - Air Medical Journal. *Air Medical Journal*, 41(1). <https://doi.org/doi:10.1016/j.amj.2021.10.012>
- Penner, K. (2022). Fly or Drive to Stay Alive? A Systematic Review Evaluating Outcomes Following Ground Versus Helicopter Prehospital Transport in Rural Patients with Moderate to Severe Traumatic Brain Injury. *Air Medical Journal*, 41(1), 34. <https://doi.org/10.1016/j.amj.2021.11.015>
- Reid, B. O., et al. (2022). Posttraumatic Stress Responses and Psychological Well-being in Norwegian Medical Helicopter Personnel. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2022.02.006>
- Reimer, A. P., & Simpson, B.,. (2022). High-Flow Nasal Cannula in Transport: Process, Results, and Considerations - Air Medical Journal. *Air Medical Journal*, 41(1), 42-46. <https://doi.org/doi:10.1016/j.amj.2021.09.008>
- Slimmer, K. A., et al. (2022). Development, Implementation, and Assessment of a New Competency and Outcomes-Based Orientation in an Air Medical Transport Program - Air Medical Journal. *Air Medical Journal*, 41(1), 63-67. <https://doi.org/doi:10.1016/j.amj.2021.07.009>
- Strony, R., et al. (2022). Helicopter Emergency Medical Services Performed Extended Focused Assessment With Sonography: Training, Workflow, and Sustainable Quality. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2021.11.005>
- vonRosenberg, J. (2022). The Impact of Peer Support on Chronic Job Stressors. *Air Medical Journal*, 41(1), 34. <https://doi.org/10.1016/j.amj.2021.11.016>
- Weir, W. B., et al. (2022). Implementation of a Rapid Sequence Intubation Checklist Improves First Pass Success and Reduces Peri-Intubation Hypoxia in Critical Care Transport. *Air Medical Journal*, 41(1), 24. <https://doi.org/10.1016/j.amj.2021.08.016>

## Diagnosis and Triage

Request  
an article



To see the full text you can request papers through the [LKS ASE Request an Article Service](#) or through your local library service. You may also access papers using your [NHS OpenAthens account](#). Some papers may be available as Open Access.

- Alqurashi, N., et al. (2022). The diagnostic accuracy of prehospital triage tools in identifying patients with traumatic brain injury: A systematic review. *Injury, Online ahead of print*. <https://doi.org/10.1016/j.injury.2022.02.020>
- Crowe, R. P., Bourn, S. S., Fernandez, A. R., & Myers, J. B. (2021). Initial Prehospital Rapid Emergency Medicine Score (REMS) as a Predictor of Patient

Outcomes [research-article]. *Prehospital Emergency Care*, 26. <https://doi.org/204684421>

Dowbiggin, P. L. e. a. (2021). Inter-Rater Reliability of the FAST-ED in the Out-of-Hospital Setting [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/UPEC-2020-0374.R3>

Harrison, J. (2022). #TheSkinnyaboutSkin: how good are we at assessing all skin colours? [Text]. *British Paramedic Journal*, 6, 60. <https://doi.org/info:doi/10.29045/14784726.2022.03.6.4.60>

Hern, H. G., et al. (2021). Overdose Receiving Centers – An Idea Whose Time Has Come? [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/UPEC-2020-0479.R3>

Jacobsen, L. e. a. (2022). Feasibility of prehospital identification of non-ST-elevation myocardial infarction by ECG, troponin and echocardiography. *Emergency Medicine Journal, Online First*. <https://doi.org/10.1136/emered-2021-211179>

Lupton, J., R., et al. (2022). Under-Triage and Over-Triage Using the Field Triage Guidelines for Injured Patients: A Systematic Review [research-article]. *Prehospital Emergency Care*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2043963>

Marincowitz, C., et al. (2022). Prognostic accuracy of triage tools for adults with suspected COVID-19 in a prehospital setting: an observational cohort study. *Emergency medicine journal : EMJ*. <https://doi.org/10.1136/emered-2021-211934>

Nehme, Z., Stub, D.,. (2022). Triage of post-cardiac arrest patients: To PCI or not to PCI, that is the question - Resuscitation. *Resuscitation*, 170, 335-338. <https://doi.org/doi:10.1016/j.resuscitation.2021.11.013>

O'Neill, G. (2022). 1117 Early and delayed traumatic intracranial bleeding in the anticoagulated head injured patient: a systematic review and meta-analysis. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-RCEM.43>

Park, J. H., et al. (2022). Use of Time-to-Event Analysis to Develop On-Scene Return of Spontaneous Circulation Prediction for Out-of-Hospital Cardiac Arrest Patients - Annals of Emergency Medicine. *Annals of Emergency Medicine*, 79(2), 132-144. <https://doi.org/doi:10.1016/j.annemergmed.2021.07.121>

Stopyra, J. P. e. a. (2022). Performance of Prehospital Use of Chest Pain Risk Stratification Tools: The RESCUE Study [research-article]. *Prehospital Emergency Care, Online Forst*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2036883>

Zozula, A., Neth, M. R., Hogan, A. N., Stolz, U., & McMullan, J. (2021). Non-transport after Prehospital Naloxone Administration Is Associated with Higher Risk of Subsequent Non-fatal Overdose [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1884324>

## Patient Profile

*Prehospital Emergency Services Current Awareness Update – Issue 94, January/February 2022*





## Children

- Blackburn, J., et al. (2022). Exploring the impact of experiencing a long lie fall on physical and clinical outcomes in older people requiring an ambulance: A systematic review. *International emergency nursing*, 62. <https://doi.org/10.1016/j.ienj.2022.101148>
- Capsey, M., Ryan, C., Alexanders, J., & Martin, D. (2022). Ambulance service use by patients with lower back pain: an observational study [Text]. *British paramedic Journal*, 6(4), 11-17. <https://doi.org/info:doi/10.29045/14784726.2022.03.6.4.11>
- Christensen, H. M., et al. (2022). Patients' perspectives on point-of-care diagnostics and treatment by emergency medical technicians in acute COPD exacerbations: A qualitative study [OriginalPaper]. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 30(1), 1-9. <https://doi.org/doi:10.1186/s13049-022-00999-2>
- Harthi, N., et al. (2022). 755 Research priorities for prehospital care of older patients with injuries: scoping review. *Emergency Medicine Journal*. <https://doi.org/10.1136/emered-2022-RCEM.22>
- Pandor, A., Fuller, G., Essat, M., Sabir, L., Holt, C., Buckley Woods, H., & Chatha, H. (2022). Individual risk factors predictive of major trauma in pre-hospital injured older patients: a systematic review [Text]. *British Paramedic Journal*, 6(4), 26-40. <https://doi.org/info:doi/10.29045/14784726.2022.03.6.4.26>
- Park, S., et al. (2022). 925 Management of older major trauma patients: the impact on mortality since implementation of dedicated guidelines. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-RCEM.45>
- Seo, E.R., et al. (2022). Pre-Hospital Delay in Patients With Acute Stroke During the Initial Phase of the Coronavirus Disease 2019 Outbreak. *Journal of Korean medical science*, 37(6). <https://doi.org/10.3346/jkms.2022.37.e47>

## On-Scene Interventions



- Bangura, A., et al. (2022). Are Pelvic Binders an Effective Prehospital Intervention? [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2021.2015024>
- Bedri, H., et al. (2022). Tourniquet Application for Bleeding Control in a Rural Trauma System: Outcomes and Implications for Prehospital Providers. *Prehospital Emergency Care*, 26(2).
- Chatelet, M., et al. (2021). Umbilical Cord Prolapse in the Prehospital Setting: A Case Report [research-article]. *Prehospital Emergency Services Current Awareness Update – Issue 94, January/February 2022*

Care, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1890285>

- Chen, HA, et al. (2022). A multicenter cohort study on the association between prehospital immobilization and functional outcome of patients following spinal injury in Asia. *Scientific reports*, 12(1). <https://doi.org/10.1038/s41598-022-07481-0>
- Crombie, N., et al. (2022). Resuscitation with blood products in patients with trauma-related haemorrhagic shock receiving prehospital care (RePHILL): a multicentre, open-label, randomised, controlled, phase 3 trial. *The Lancet. Haematology*. [https://doi.org/10.1016/S2352-3026\(22\)00040-0](https://doi.org/10.1016/S2352-3026(22)00040-0)
- Ferrés-Padró, V. et al. (2022). Evaluation of prehospital hydroxocobalamin use in the setting of smoke inhalation. *The American journal of emergency medicine*. <https://doi.org/10.1016/j.ajem.2022.01.057>
- Haamid, A., et al. (2022). Prehospital Intranasal Glucagon for Hypoglycemia [research-article]. *Prehospital Emergency Care*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2045406>
- Hanna, A., et al. (2022). Pediatric Bradycardia Is Undertreated in the Prehospital Setting: A Retrospective Multi-Agency Analysis [other]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2021.2018075>
- Hashmi, Z. G. et al. (2022). Characteristics and Outcomes of Prehospital Tourniquet Use for Trauma in the United States [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2021.2025283>
- Joseph, R., et al. (2022). 842 Multi-centre implementation of the SNAP Protocol for paracetamol overdose – fewer anaphylactoid reactions and shortened length of stay. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-RCEM.14>
- Leitch, P., et al. (2022). 1048 Incidence of hyperoxia in traumatically injured patients receiving pre-hospital emergency anaesthesia: a 5-year retrospective analysis. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-RCEM.41>
- Partyka, C., et al. (2022). Prehospital activation of a coordinated multidisciplinary hospital response in preparation for patients with severe hemorrhage. A state-wide data linkage study of the New South Wales "Code Crimson" pathway. *The journal of trauma and acute care surgery, Online First*. <https://doi.org/10.1097/TA.0000000000003585>
- Panas, A., & Walker, P.,. (2022). Treatment of Malignant Hyperthermia During Interfacility Transport of a Patient With Methamphetamine Toxicity. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2022.01.005>
- Pfeiffer, C. K. e. a. (2022). Prehospital benzodiazepine use and need for respiratory support in paediatric seizures. *Emergency Medicine Journal, Online First*. <https://doi.org/10.1136/emered-2021-211735>
- Powell, J. R. e. a. (2022). Evidence-Based Guidelines for Prehospital Pain Management: Literature and Methods [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2021.2018074>
- Prehospital Emergency Services Current Awareness Update – Issue 94, January/February 2022*

- Ramsden, S., & Beals, L.,. (2022). BET 1: should Colles' fractures be splinted in a long or short arm cast? *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-212327.2>
- Schoeneck, J., H., et al. (2022). Paramedic-performed Prehospital Point-of-care Ultrasound for Patients with Undifferentiated Dyspnea: A Pilot Study - The Western Journal of Emergency Medicine. *Western Journal of Emergency Medicine*, 22(3). <https://doi.org/10.5811/westjem.2020.12.49254>
- Shekhar, B. e. a. (2022). Out-of-Hospital Intubation Success Rates Vary Based on Transport Environment - Journal of Emergency Medicine. *Journal of Emergency Medicine*, 62. <https://doi.org/doi:10.1016/j.jemermed.2021.10.031>
- Stiell, I. G., et al. (2022). Advanced Life Support for out-of-hospital Chest Pain: The Opals Study [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2045407>
- Thies, K-C., & Ruetzler, K., (2022). Prehospital blood transfusion: who benefits? *The Lancet. Haematology*. [https://doi.org/10.1016/S2352-3026\(22\)00074-6](https://doi.org/10.1016/S2352-3026(22)00074-6)
- Torres, E., et al. (2022). Is TXA Effective Compared with Anterior Nasal Packing (ANP) in Achieving Cessation of Bleeding in Patients with Anterior Epistaxis? *Journal of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.jemermed.2022.01.030>
- Wik, L., et al. (2022). Physiological effects of providing supplemental air for avalanche victims. A randomised trial - Resuscitation. *Resuscitation*, 172, 38-46. <https://doi.org/doi:10.1016/j.resuscitation.2022.01.007>

## Airway Management, Resuscitation & CPR

Request  
an article



To see the full text you can request papers through the [LKS ASE Request an Article Service](#) or through your local library service. You may also access papers using your [NHS OpenAthens account](#). Some papers may be available as Open Access.

- Abramson, T.M., et al. (2022). Elevated prehospital point-of-care glucose is associated with worse neurologic outcome after out-of-hospital cardiac arrest. *Resuscitation plus*, 9. <https://doi.org/10.1016/j.resplu.2022.100204>
- Albargi, H., et al. (2022). Bystander cardiopulmonary resuscitation for paediatric out-of-hospital cardiac arrest in England: An observational registry cohort study - Resuscitation. *Resuscitation*, 170, 17-25. <https://doi.org/doi:10.1016/j.resuscitation.2021.10.042>
- Brown, T. P. e. a. (2022). Are there disparities in the location of automated external defibrillators in England? - Resuscitation. *Resuscitation*, 170, 28-35. <https://doi.org/doi:10.1016/j.resuscitation.2021.10.037>
- Corral, E., & Lenz, T.,. (2022). Intubation Success Rates and Complications After Implementation of a Pre-intubation Checklist. *Air Medical Journal*, 41(1), 34. <https://doi.org/10.1016/j.amj.2021.11.017>
- Coutu, N., et al. (2022). Use of Video Laryngoscopy to Improve Intubation Success on Neo-pediatric Transport: a QI Initiative. *Air Medical Journal*, 41(1), 35-36. <https://doi.org/10.1016/j.amj.2021.11.022>

- Debaty, G., et al. (2022). Citizen first responders dispatched using smartphone app to suspected cardiac arrest, a meaningful experience that can save a live - Resuscitation. *Resuscitation*, 170, 361-362. <https://doi.org/doi:10.1016/j.resuscitation.2021.12.005>
- George, N., et al. (2021). Beyond Extracorporeal Cardiopulmonary Resuscitation: Systems of Care Supporting Cardiac Arrest Patients [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1889728>
- Hanlin, E. R. et al. (2022). Epidemiology of out-of-hospital pediatric airway management in the 2019 national emergency medical services information system data set. *Resuscitation*, In Press(0). <https://doi.org/10.1016/j.resuscitation.2022.01.008>
- Harris, C.T., et al. (2022). Prehospital Simple Thoracostomy Does Not Improve Patient Outcomes Compared to Needle Thoracostomy in Severely Injured Trauma Patients. *The American surgeon*. <https://doi.org/10.1177/00031348221075746>
- Haskins, B., et al. (2021). Comparison of Out-of-Hospital Cardiac Arrests Occurring in Schools and Other Public Locations: A 12-Year Retrospective Study [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1873471>
- Hongo, T., et al. (2022). Impact of different medical direction policies on prehospital advanced airway management for out-of hospital cardiac arrest patients: A retrospective cohort study. *Resuscitation plus*, 9. <https://doi.org/10.1016/j.resplu.2022.100210>
- Huang, H.-H., et al. (2022). A Novel Assessment Using a Panoramic Video Camera of Resuscitation Quality in Patients following Out-of-Hospital Cardiac Arrest [other]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2021.2015025>
- Humphries, A. L. e. a. (2022). Paramedic-Performed Carotid Artery Ultrasound Heralds Return of Spontaneous Circulation in Out-of-Hospital Cardiac Arrest: A Case Report [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2021.2022257>
- Hutton, G., et al. (2022). Out-of-hospital cardiac arrests terminated without full resuscitation attempts: Characteristics and regional variability - Resuscitation. *Resuscitation*, 172, 47-53. <https://doi.org/doi:10.1016/j.resuscitation.2022.01.013>
- Jeffers, T., et al. (2022). Efficacy of Combination Haloperidol, Lorazepam, and Diphenhydramine vs. Combination Haloperidol and Lorazepam in the Treatment of Acute Agitation: A Multicenter Retrospective Cohort Study. *Journal of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.jemermed.2022.01.009>
- Jouffroy, R., & Vivien, B.,. (2021). Time to Return of Spontaneous Circulation (ROSC) and Survival: Tissue and Brain Perfusion Is Probably More Important than ROSC [letter]. *Prehospital Emergency*

- Care, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1979144>
- Kitano, S., et al. (2022). Evaluation of outcomes after EMS-witnessed traumatic out-of-hospital cardiac arrest caused by traffic collisions - Resuscitation. *Resuscitation*, 171, 64-70. <https://doi.org/doi:10.1016/j.resuscitation.2021.12.023>
- Lancaster, G. D. e. a. (2021). How Does Rescuer Fitness Affect the Quality of Prolonged Cardiopulmonary Resuscitation? [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1894275>
- Lauridsen, K. G., et al. (2022). Hemodynamic-directed pediatric cardiopulmonary resuscitation using ET-CO2: Are physiologic targets really patient Centric? - Resuscitation. *Resuscitation*, 170, 324-326. <https://doi.org/doi:10.1016/j.resuscitation.2021.11.017>
- Leidel, B. (2022). Hyperoxia in resuscitation of out-of-hospital cardiac arrest patients – Is less more? - Resuscitation. *Resuscitation*, 170, 283-284. <https://doi.org/doi:10.1016/j.resuscitation.2021.11.040>
- Liang, L., et al. (2022). Utilization and cost-effectiveness of school and community center AED deployment models in Canadian cities - Resuscitation. *Resuscitation*, 172, 194-200. <https://doi.org/doi:10.1016/j.resuscitation.2021.12.035>
- McCans, K., et al. (2022). Variation in Prehospital Protocols for Pediatric Respiratory Distress Management in the United States. *Pediatric emergency care*. <https://doi.org/10.1097/PEC.0000000000002620>
- Meng, M., et al. (2022). Prehospital noninvasive positive pressure ventilation for severe respiratory distress in adult patients: An updated meta-analysis. *Journal of clinical nursing, Online ahead of print*. <https://doi.org/10.1111/jocn.16224>
- Musi, M.E. & Perman, S.M., (2022). Mode of transportation of out-of-hospital cardiac arrest patients, the role of community actions and interventions. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2022.03.002>
- Nicol, T., et al. (2021). Incidence, Complications, and Factors Associated with Out-of-Hospital First Attempt Intubation Failure in Adult Patients: A Secondary Analysis of the CURASMUR Trial Data [research-article]. *Prehospital Emergency Care*, 26(2). <https://doi.org/https://doi.org/10.1080/10903127.2021.1891357>
- Okubo, M., et al. (2022). Association of Advanced Airway Insertion Timing and Outcomes After Out-of-Hospital Cardiac Arrest - Annals of Emergency Medicine. *Annals of Emergency Medicine*, 79(2), 118-131. <https://doi.org/doi:10.1016/j.annemergmed.2021.07.114>
- Olvera, D., et al. (2022). Compliance and Attitudes of Critical Care Transport Providers Regarding a Prehospital Rapid Sequence Intubation Checklist. *Air medical journal*, 41(1). <https://doi.org/10.1016/j.amj.2021.10.007>



- Palladino, N., et al. (2021). STEMI Equivalents and Their Incidence during EMS Transport [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/UPEC-2020-0575.R2>
- Peters, G. A., Ordoobadi, A. J., Panchal, A. R., & Cash, R. E. (2022). Differences in Out-of-Hospital Cardiac Arrest Management and Outcomes across Urban, Suburban, and Rural Settings [research-article]. *Prehospital Emergency Care*, Online First. <https://doi.org/https://doi.org/10.1080/10903127.2021.2018076>
- Salhi, R. A., et al. (2022). The association of fire or police first responder initiated interventions with out of hospital cardiac arrest survival - Resuscitation. *Resuscitation*, 174, 9-15. <https://doi.org/doi:10.1016/j.resuscitation.2022.02.026>
- Shibahashi, K., et al. (2022). Evaluation of initial shockable rhythm as an indicator of short no-flow time in cardiac arrest: a national registry study. *Emergency Medicine Journal*, Online First. <https://doi.org/10.1136/emmermed-2021-211823>
- Smith, C. M., et al.,. (2022). 781 Drone delivered defibrillators (The 3D Project): a simulation study. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emmermed-2022-RCEM.31>
- Sorcher, J. L., et al. (2022). Association of end-tidal carbon dioxide levels during cardiopulmonary resuscitation with survival in a large paediatric cohort - Resuscitation. *Resuscitation*, 170(316-323). <https://doi.org/doi:10.1016/j.resuscitation.2021.10.029>
- Steinberg, M. F., et al. (2022). Efficacy of defibrillator pads placement during ventricular arrhythmias, a before and after analysis - Resuscitation. *Resuscitation*, 174, 16-19. <https://doi.org/doi:10.1016/j.resuscitation.2022.03.004>
- Yoon, H., et al. (2022). Effects of pre-hospital re-arrest on outcomes based on transfer to a heart attack centre in patients with out-of-hospital cardiac arrest - Resuscitation. *Resuscitation*, 170, 107-114. <https://doi.org/doi:10.1016/j.resuscitation.2021.11.012>

## COVID 19 All Papers

Request  
an article



To see the full text you can request papers through the [LKS ASE Request an Article Service](#) or through your local library service. You may also access papers using your [NHS OpenAthens account](#). Some papers may be available as Open Access.

- Andrew, E., et al. (2021). The Impact of the COVID-19 Pandemic on Demand for Emergency Ambulances in Victoria, Australia [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/216982472>
- Braude, D., et al. (2022). Safety of Air Medical Transport of Patients With COVID-19 by Personnel Utilizing Routine Personal Protective Equipment. *Air Medical Journal*, 41(1), 25-26. <https://doi.org/10.1016/j.amj.2021.08.020>
- Davis, W. J. M. e. a. (2022). Descriptive Analysis of Coronavirus Disease 2019 Air Medical Evacuations by Critical Care Air Transport Teams - Air Medical

Journal. *Air Medical Journal*, 41(1), 47-51. <https://doi.org/doi:10.1016/j.amj.2021.09.005>

- Dufour-Neyron, H. e. a. (2022). Prehospital Use of the Esophageal Tracheal Combitube Supraglottic Airway Device: A Retrospective Cohort Study. *Journal of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.jemermed.2021.11.005>
- Koch, L., et al. (2022). Risk Analysis by Failure Modes, Effects and Criticality Analysis and Biosafety Management During Collective Air Medical Evacuation of Critically Ill Coronavirus Disease 2019 Patients - *Air Medical Journal*. *Air Medical Journal*, 41(1), 88-95. <https://doi.org/doi:10.1016/j.amj.2021.10.006>
- MacDonald, R. e. a. (2021). A Dedicated SARS-CoV-2 Testing Center for Public Service Agency Personnel: Implementation, Results, and Impact on Human Resources [research-article]. *Prehospital Emergency Care*. <https://doi.org/214361071>
- Marincowitz, & , C., et al. (2022). 867 Prognostic accuracy of triage tools for adults with suspected COVID-19 in a pre-hospital setting: an observational cohort study. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-RCEM.1>
- Pan, A., et al. (2022). Interfacility Transport of Mechanically Ventilated Patients with Suspected COVID-19 in the Prone Position [research-article]. *Prehospital Emergency Care, Online First*. <https://doi.org/https://doi.org/10.1080/10903127.2022.2036882>
- Sarkisian, L., et al. (2022). Longer retrieval distances to the automated external defibrillator reduces survival after out-of-hospital cardiac arrest - Resuscitation. *Resuscitation*, 170, 44-52. <https://doi.org/doi:10.1016/j.resuscitation.2021.11.001>
- Scquizzato, T., et al. (2021). Impact of COVID-19 Pandemic on Out-of-Hospital Cardiac Arrest System-of-Care: A Systematic Review and Meta-Analysis [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/216431690>

### Further Research Needed ...

Request  
an article



To see the full text you can request papers through the [LKS ASE Request an Article Service](#) or through your local library service. You may also access papers using your [NHS OpenAthens account](#). Some papers may be available as Open Access.

Blackmore, T.A. (2022). What is the role of paramedics in palliative and end of life care? *Palliative Medicine*. <https://doi.org/10.1177/02692163211073263>

There is a need for further research into the personal experiences and perspectives of paramedics providing end of life care, not only to improve the care their patients and carers receive, but also to support the essential role that paramedics play in the care of the dying in the community. Paramedics are currently in a position of extreme pressure and their resources stretched at times to breaking point. The COVID-19 pandemic has highlighted gaps in both ambulance and palliative care provision.

With the undervalued and sometimes misunderstood speciality of palliative and end of life care meeting the equally undervalued and misunderstood profession of paramedic science, could the reliance on paramedics to provide urgent response to end-of-life patients be an example of a perfect storm? For this to be addressed there needs to be a substantial mind shift in international healthcare policy to recognize the value of paramedic clinical decision making, together with the importance of palliative and end of life care to achieve the best care for dying patients in primary care.

If primary healthcare provision is going to increasingly rely on the ambulance service to care for the dying patients in the community, then we need to equip paramedics with the resources to do so. There is a long-standing practice in the ambulance services to employ specialists in specific areas such as midwifery and mental health to advise paramedics on scene. Unfortunately this is not the case for palliative and end of life care, with only a few ambulance services employing specialist palliative and end of life practitioners.

There are currently mounting concerns about the mental welfare of paramedics on the frontline of healthcare and we need to understand how this burnout is correlated with paramedic perception of their role, their views on organizational structure, education, and guidelines. It is not a sufficient response to just implement end of life interventions, such as policies and guidelines, without first seeking the views of the paramedics who must implement them. **It is now time for research to gain a greater understanding of the experience and perspectives of paramedics caring for dying patients in expected deaths to provide paramedics with the evidence they need to reinforce their practice.**

Capsey, M., Ryan, C., Alexanders, J., & Martin, D. (2022). Ambulance service use by patients with lower back pain: an observational study [Text]. *British paramedic Journal*, 6(4), 11-17. <https://doi.org/info:doi/10.29045/14784726.2022.03.6.4.11>

**Conclusion:** LBP is a relatively common reason to call the ambulance service. Contrary to data from primary care, non-spinal causes, which include medical emergencies, make up a significant proportion of this. Current guidance on back pain focuses on primary care and specialist settings. **Future updates may need to consider emergency care as a distinct setting with a potentially different patient population.**

Pandor, A., Fuller, G., Essat, M., Sabir, L., Holt, C., Buckley Woods, H., & Chatha, H. (2022). Individual risk factors predictive of major trauma in pre-hospital injured older patients: a systematic review [Text]. *British Paramedic Journal*, 6(4), 26-40. <https://doi.org/info:doi/10.29045/14784726.2022.03.6.4.26>

**Conclusions:** Existing pre-hospital major trauma triage tools could be optimised for elderly patients by including elderly-specific physiology thresholds. **Future work should focus on more relevant reference standards and further evaluation of novel elderly relevant triage tool variables and thresholds.**

Shanahan, T. e. a. (2022). 808 Changing nature of major trauma from 2000 to 2019 in England and Wales: observational registry study. *Emergency Medicine Journal*, 39(3). <https://doi.org/10.1136/emered-2022-RCEM.4>

**Summary:** Significant differences were observed in the demographics, injury patterns, presenting physiology, care pathways, and outcomes between the high and low energy cohorts. Changes in imaging and reporting practices have revealed a previously hidden burden of injury resulting from low energy transfer mechanisms. **It is essential that future research recognises this distinct cohort and investigates how trauma systems can be changed to optimise outcomes.**

Todd, V. F., et al. (2021). Factors Associated with Emergency Medical Service Reattendance in Low Acuity Patients Not Transported by Ambulance [research-article]. *Prehospital Emergency Care*, 26(1). <https://doi.org/UPEC-2019-0541.R3>

**Discussion:** The overall low rate of EMS reattendance is encouraging. **Further research is needed into the clinical presentation of patients requiring ambulance reattendance within 48 hours** to determine if there are early warning signs indicative of subsequent deterioration.

#### How to contact your Library Service

Service	Contact	Services Offered
All Ambulance Services in England except SWAST, IOW and LAS.	eMail: <a href="mailto:Matt.Holland@nwas.nhs.uk">Matt.Holland@nwas.nhs.uk</a> Link to: <a href="#">Library Website</a>	Document Supply; Searches; Current Awareness; Guides & Help;
South Western Ambulance Service	eMail: <a href="mailto:library.mailbox@nhs.net">library.mailbox@nhs.net</a> Link to: <a href="http://discoverylibrary.org/SWASFT">http://discoverylibrary.org/SWASFT</a>	Document Supply; Searches; Current Awareness; Guides & Help;
Isle of Wight	eMail: <a href="mailto:library@iow.nhs.uk">library@iow.nhs.uk</a> Link to: <a href="#">Library Website</a>	Full library membership of the Oliveira Library.
London Ambulance Service	eMail: <a href="mailto:londamb.clinical.temp@nhs.net">londamb.clinical.temp@nhs.net</a>	Document Supply, Research