NARSG

NATIONAL AMBULANCE RESEARCH STEERING GROUP

Prehospital Emergency Services Current Awareness Update

Issue 106, March / April 2024

Welcome to January / February 2024 issue of the
Prehospital Emergency Services Current Awareness Update.

New service with QxMD

Use Read QxMD to keep up with recent paramedic research

Read by QxMD

Getting set up is quick and easy.

1. Download Read by QxMD by following this link http://qx.md/read or search for us in the app store. A web version is also available at https://readbyqxmd.com

2. Add your ambulance service to your "Account Settings" under "Institutional Access" and enter your NHS OpenAthens account, to gain continuous access to LKS ASE subscriptions.

Already have Read by QxMD?

1. Add your ambulance service to your "Account Settings" under "Institutional Access" and enter your NHS OpenAthens account, to gain continuous access to LKS ASE subscriptions.

Read by QxMD provides a single place to keep up with new medical and scientific research. Curate your feed by filtering for your profession/ specialty/location and favourite journals. You can also save collections of articles important to you.

LKS ASE Collection

You can subscribe to LKS ASE collections through the Read QxMD app. These are regularly updated …

- Paramedicine
- Simulation in Prehospital Research [EPRN]
- Emergency Preparedness, Resilience and Response
- Telephone Support in Prehospital Care

- Driving Emergency Vehicles - Blue Lights and Sirens

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)*

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

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.

Cheung, E. H., et al., (2024a). Advancing Emergency Medical Services' (EMS) Response Capability for Behavioral Health Emergencies: Los Angeles County's Performance Improvement Initiative [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2333494

Cochrane, A. (2024). Prepping for practice [research-article]. *Journal of Paramedic Practice*, *16*(4). https://doi.org/10.12968/jpar.2024.16.4.171

Dailey, M. W., & Hayashi, W. (2024). "EMS Electronic Health Records – An Opportunity for Integration to Improve Care" Commentary on Kamta et al. [editorial]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2234995

Delardes, B., Nehme, E., Bowles, K.-A., Chakraborty, S., Cox, S., & Smith, K. (2024). Characteristics and Outcomes of Patients Referred to a General Practitioner by Victorian Paramedics [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2326601

Edwards., GF., et al. (2024). Developing medical simulations for opioid overdose response training: A qualitative analysis of narratives from responders to overdoses. *PloS one*, *19*(3). https://doi.org/10.1371/journal.pone.0294626

Elsasser, A., et al., (2024). Psychosocial working conditions, perceived patient safety and their association in emergency medical services workers in Germany - a cross-sectional study. *BMC emergency medicine*, *24*(1). https://doi.org/10.1186/s12873-024-00983-2

Elsenbast, C., & Hagemann, V. (2024). Technology commitment of emergency medical service practitioners and dispatchers [research-article]. *Journal of Paramedic Practice*, *16*(4). https://doi.org/10.12968/jpar.2024.16.4.155

Ercolani., J., et al., (2024). Identifying and validating perceived workload metrics for emergency medical services. *Applied ergonomics*, *118*. https://doi.org/10.1016/j.apergo.2024.104270

Fontaine., G., et al., (2024). Barriers and enablers to the implementation of patient-reported outcome and experience measures (PROMs/PREMs): protocol for an umbrella review. *Systematic reviews*, *13*(1). https://doi.org/10.1186/s13643-024-02512-5

Giaume, L., et al., (2024). Psychological, cognitive, and physiological impact of hazards casualties' trainings on first responders: the example of a chemical and radiological training. An exploratory study. *Frontiers in psychology*, *15*. https://doi.org/10.3389/fpsyg.2024.1336701

Heffernan., J., et al., (2024). The association between the Police, Ambulance, Clinician Early Response model and involuntary detentions of people living with mental illness: A retrospective observational study. *Journal of psychiatric and mental health nursing*. https://doi.org/10.1111/jpm.13053

Johnsen, AM., et al., (2024). Work-, lifestyle-, and health-related factors among women and men working in the emergency medical services. *International*

journal of occupational safety and ergonomics : JOSE. https://doi.org/10.1080/10803548.2024.2332115

Kamta, J., et al., (2024). Improving Emergency Medicine Clinician Awareness of Prehospital-Administered Medications [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2238815

Karfunkle, B., Chan, H. K., Fisher, B., Gill, J., Bakunas, C., Gordon, R., . . . Huebinger, R. (2024). Prehospital Ultrasound: Nationwide Incidence from the NEMSIS Database [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2239353

Keenan, M., keenanm@upstate.edu, Wojcik, S., Clemency, B. M., & Marraffa, J. (2024). Does Mixing Activated Charcoal With Cola Improve Tolerability Without Affecting Pharmacokinetics? A Randomized Controlled Crossover Trial. *Journal of Emergency Nursing*, *0*(0). https://doi.org/10.1016/j.jen.2024.03.001

Khoza., TL., et al., (2024). Factors Predisposing Emergency Medical Technicians to Workplace Violence: A Cross Sectional Study. *Inquiry : a journal of medical care organization, provision and financing*, *61*. https://doi.org/10.1177/00469580241233452

Lobo, G. L. D. A., Lee, S., & 0000-0001-8529-4500. (2024). Does the Use of Sterile Gloves for the Repair of Wounds and Lacerations Reduce the Risk of Infection? *Annals of Emergency Medicine*, *0*(0). https://doi.org/10.1016/j.annemergmed.2024.02.017

Martin-Gill, C., & Lyng, J. W. (2024a). Methodology for Evidence Evaluation and Reporting of the NAEMSP Trauma Compendium Position Statements [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2329217

Nau., LM., et al., (2024). The Use of Medical Services for Low-Acuity Emergency Cases in Germany: Protocol for a Multicenter Observational Pilot Study. *JMIR research protocols*, *13*. https://doi.org/10.2196/54002

Nehme., E., et al., (2024). Refining ambulance clinical response models: The impact on ambulance response and emergency department presentations. *Emergency medicine Australasia : EMA*. https://doi.org/10.1111/1742-6723.14406

Newton., J., et al., (2024). Exploring paramedic perspectives on emergency medical service (EMS) delivery in Alberta: a qualitative study. *BMC emergency medicine*, *24*(1). https://doi.org/10.1186/s12873-024-00986-z

Nilsbakken., I., et al. (2024). Functional outcome and associations with prehospital time and urban-remote disparities in trauma: A Norwegian national population-based study. *Injury*. https://doi.org/10.1016/j.injury.2024.111459

Norii, T., et al., (2024). Ambulance Traffic Crashes in Japan: Characteristics of Casualties and Efforts to Improve Ambulance Safety [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2315946

Nowak-Zajac., K., et al., (2024). New paramedic scope of practice in Poland based on the 2022 reform. *Health policy (Amsterdam, Netherlands)*, *143*. https://doi.org/10.1016/j.healthpol.2024.105015

Paramalingham, A., et al., (2024). Paramedic attitudes and experiences working as a community paramedic: a qualitative survey. *BMC emergency medicine*, *24*(1). https://doi.org/10.1186/s12873-024-00972-5

Ryan., MJ., et al., (2024). Has the rescheduling of modified-release paracetamol in Australia affected the frequency of overdoses? *Emergency medicine Australasia : EMA*. https://doi.org/10.1111/1742-6723.14403

Schneider, K., Williams, M., Mohr, N. M., & Ahmed, A. (2024). Rural Emergency Medical Services Clinicians' Perceptions and Preferences in Receiving Clinical Feedback From Hospitals: A Qualitative Needs Assessment [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2324970

Sengstock, B. (2024). Hidden layers: neurodiversity in paramedicine [research-article]. *Journal of Paramedic Practice*, *16*(4). https://doi.org/10.12968/jpar.2024.16.4.164

Skaffari, E., Iirola, T., & Nordquist, H. (2024). Patient experience of non-conveyance in the EMS of Southwest Finland: a descriptive survey study [OriginalPaper]. *BMC Emergency Medicine*, *24*(1), 1-8. https://doi.org/doi:10.1186/s12873-024-00961-8

Strandas., M., et al., (2024). An Integrative Systematic Review of Promoting Patient Safety Within Prehospital Emergency Medical Services by Paramedics: A Role Theory Perspective. *Journal of multidisciplinary healthcare*, *17*. https://doi.org/10.2147/JMDH.S460194

Strozik., M., et al., (2024). Emergency medical team interventions in Poland during out-of-hospital deliveries: A retrospective analysis. *Advances in clinical and experimental medicine : official organ Wroclaw Medical University*. https://doi.org/10.17219/acem/184141

Thompson., M., et al., (2024). Defining capabilities in deployed UK military prehospital emergency care. *BMJ military health*, *170*(2). https://doi.org/10.1136/military-2022-002159

Westnes., E., & Hjortdhal., M., (2024). Firefighters and police search dog handlers' experiences working closely with paramedics in urban search and rescue incidents: a qualitative focus group study from Oslo. *Scandinavian journal of trauma, resuscitation and emergency medicine*, *32*(1). https://doi.org/10.1186/s13049-024-01194-1

Wickbom., F., et al., (2024). Validation of the Scandinavian guidelines for minor and moderate head trauma in children: protocol for a pragmatic, prospective, observational, multicentre cohort study. *BMJ open*, *14*(4). https://doi.org/10.1136/bmjopen-2023-078622

Workman, E. (2024). Placement expectations [research-article]. *Journal of Paramedic Practice*, *16*(4). https://doi.org/10.12968/jpar.2024.16.4.170

Prehospital Research – Methods and Discussion

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.

Gray, A. (2024). ChatGPT "contamination": estimating the prevalence of LLMs in the scholarly literature. *arxiv*. https://doi.org/10.48550/arXiv.2403.16887

Nogrady, B. (2024). Tweeting your research paper boosts engagement but not citations [News]. *Nature*. https://doi.org/doi:10.1038/d41586-024-00922-y

Helicopter Emergency Medical Services (HEMS) and Air Medical

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.

Butterfield, E. D., et al. (2024). Prehospital invasive arterial blood pressure monitoring in critically ill patients attended by a UK helicopter emergency medical service– a retrospective observational review of practice [OriginalPaper]. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, *32*(1), 1-7. https://doi.org/doi:10.1186/s13049-024-01193-2

Hayes.-Bradley., et al., (2024). Factors Associated With Desaturation in Prehospital Rapid Sequence Intubation in a Helicopter Emergency Medical Service. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.11.013

Hsueh., J., et al., (2024). Applications of Artificial Intelligence in Helicopter Emergency Medical Services: A Scoping Review. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.11.012

Latona, A., et al., (2024). Ventilator-assisted preoxygenation in an aeromedical retrieval setting. *Emergency medicine Australasia : EMA*. https://doi.org/10.1111/1742-6723.14404

Morton., S., et al., (2024). Pediatric Intubations in a Semiurban Helicopter Emergency Medicine Service: A Retrospective Review. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.10.007

Muller., M., et al., (2024). Accuracy between prehospital and hospital diagnosis in helicopter emergency medical services and its consequences for trauma care. *European journal of trauma and emergency surgery : official publication of the European Trauma Society*. https://doi.org/10.1007/s00068-024-02505-y

Polzin, A., et al., (2024). Inhaled Nitroglycerin for Pulmonary Edema in Air Medical Services: A Retrospective Pilot Study. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.11.009

Ringen, E., Haugland, H., & Brede, J. R. (2024). Characteristics of the most severely ill and injured patients in a Norwegian helicopter emergency medical service: a retrospective cohort study [OriginalPaper]. *BMC Emergency Medicine*, *24*(1), 1-8. https://doi.org/doi:10.1186/s12873-024-00954-7

Webb., CT., et al., (2024). Validation of Air Medical Prehospital Triage Score in Determining Resource Utilization at Level 1 Trauma Centers. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.10.001

Williams., NC., et al., (2024). Ketamine Efficacy for Management of Status Epilepticus: Considerations for Prehospital Clinicians. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.09.011

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.

Baradi, A., et al., (2024). Prevalence and Predictors of Emergency Medical Service Use in Patients Undergoing Primary Percutaneous Coronary Intervention for ST-Elevation Myocardial Infarction. *Heart, lung & circulation*. https://doi.org/10.1016/j.hlc.2024.02.011

Caputo, M., et al., (2024). Validation of Utstein-Based score to predict return of spontaneous circulation (UB-ROSC) in patients with out-of-hospital cardiac arrest - Resuscitation. *Resuscitation*, *197*. https://doi.org/10.1016/j.resuscitation.2024.110113

Cooper, JG., et al., (2024). Prehospital T-MACS and HEART scores in the prediction of myocardial infarction: a prospective evaluation. *Emergency medicine journal : EMJ*, *41*(4). https://doi.org/10.1136/emermed-2023-213639

Cullen., L., et al., (2024). External validation of a rapid algorithm using high-sensitivity troponin assay results for evaluating patients with suspected acute myocardial infarction. *Emergency medicine journal : EMJ*, *41*(5). https://doi.org/10.1136/emermed-2023-213539

Curran., JM., et al., (2024). High-sensitivity troponin testing at the point of care for the diagnosis of myocardial infarction: a prospective emergency department clinical evaluation. *Emergency medicine journal : EMJ*, *41*(5). https://doi.org/10.1136/emermed-2023-213633

Golcuk, Y. (2024). Delta Shock Index: Enhancing Prehospital Assessment of GI Bleeding [letter-to-the-editor]. *Prehospital Emergency Care*, *Online First*. https://doi.org/https://doi.org/10.1080/10903127.2024.2341413

Goodacre., S., et al. (2024). Prehospital early warning scores for adults with suspected sepsis: the PHEWS observational cohort and decision-analytic modelling study. *Health technology assessment (Winchester, England)*, *28*(16). https://doi.org/10.3310/NDTY2403

Hanlin, E., et al., (2024). Prehospital Validation of the Assessment of Blood Consumption (ABC) Score [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2166174

Leto., N., et al. (2024). Prehospital identification of acute ischaemic stroke with large vessel occlusion: a retrospective study from western Norway. *Emergency medicine journal : EMJ*, *41*(4). https://doi.org/10.1136/emermed-2023-213236

Lowe, J., Lowe, Z., & Ely, R. (2024). Shock Index as a Predictor of Mortality and Hospital Admission in Prehospital Gastrointestinal Bleeding: A Retrospective Cohort Study [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2331739

Morton., S., & Gough., C., (2024). Can the MIRACLE2 Score Be Used in the Prehospital Environment and Is It Useful? An Observational Study. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.11.008

Nwizu, M., et al.,. (2024). Impact of Triage Systems on Time to Diagnosis and Treatment of Traumatic Brain Injuries. *Journal of Emergency Medicine*, *66*(3). https://doi.org/10.1016/j.jemermed.2023.11.005

Oanesa, R. D., Su, T. W.-H., & Weissman, A. (2024). Evidence for Use of Validated Sepsis Screening Tools in the Prehospital Population: A Scoping Review [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2224862

Pazi, HB., et al., (2024). Pre-hospital stroke monitoring past, present, and future: a perspective. *Frontiers in neurology*, *15*. https://doi.org/10.3389/fneur.2024.1341170

Russell, FM., et al., (2024). Diagnostic accuracy of prehospital lung ultrasound for acute decompensated heart failure: A systematic review and Meta-analysis. *The American journal of emergency medicine*, *80*. https://doi.org/10.1016/j.ajem.2024.03.021

Wang., AZ., & Hunter., BR., (2024). Troponin or not troponin, what is the (clinical) question? *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*. https://doi.org/10.1111/acem.14900

Patient Profile

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.

Children and Young People

Goodwin, L., et al., (2024). Inequalities in birth before arrival at hospital in South West England: a multimethods study of neonatal hypothermia and emergency medical services call-handler advice. *Emergency Medicine Journal*, *Online First*. https://doi.org/10.1136/bmjopen-2023-081106

Nikula, A., Lundeberg, S., Ryd Rinder, M., Lääperi, M., Sandholm, K., Castrén, M., & Kurland, L. (2024). A randomized double-blind trial of intranasal dexmedetomidine versus intranasal esketamine for procedural sedation and analgesia in young children [OriginalPaper]. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, *32*(1), 1-9. https://doi.org/doi:10.1186/s13049-024-01190-5

Pandya., L., et al., (2024). Pediatric Outcomes of Emergency Medical Services Non-Transport Before and During the COVID-19 Pandemic. *The western journal of emergency medicine*, *25*(2). https://pubmed.ncbi.nlm.nih.gov/38596926/

Ramgopal, S., Crowe, R. P., Jaeger, L., Fishe, J., Macy, M. L., & Martin-Gill, C. (2024). Measures of Patient Acuity Among Children Encountered by Emergency Medical Services by the Child Opportunity Index [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2333493

Santillanes, G., et al., (2024). Management of youth with suicidal ideation: Challenges and best practices for emergency departments. *Journal of the*

American College of Emergency Physicians open, *5*(2). https://doi.org/10.1002/emp2.13141

Saper., JK., et al., (2024). Pediatric Utilization of Emergency Medical Services from Outpatient Offices and Urgent Care Centers. *Academic pediatrics*. https://doi.org/10.1016/j.acap.2024.03.008

Patients with Lower Back Pain

Capsey, M., et al., (2024). Utilisation and experience of emergency medical services by patients with back pain: A scoping review. *Musculoskeletal science & practice*, *71*. https://doi.org/10.1016/j.msksp.2024.102928

Patients with Epilepsy

Holmes., E., et al. (2024). Developing an alternative care pathway for emergency ambulance responses for adults with epilepsy: A Discrete Choice Experiment to understand which configuration service users prefer. Part of the COLLABORATE project. *Seizure*, *118*. https://doi.org/10.1016/j.seizure.2024.04.008

Patients using Drugs

Marshall, K. D., et al., (2024). Navigating Care Refusal and Noncompliance in Patients with Opioid Use Disorder. *Journal of Emergency Medicine*, *0*(0). https://doi.org/10.1016/j.jemermed.2024.03.008

Older People

Camp., K., et al., (2024). Integrating Fall Prevention Strategies into EMS Services to Reduce Falls and Associated Healthcare Costs for Older Adults. *Clinical interventions in aging*, *19*. https://doi.org/10.2147/CIA.S453961

McNamara., R., et al., (2024). Frailty same day emergency care (SDEC): a novel service model or an unhelpful distraction? *Age and ageing*, *53*(4). https://doi.org/10.1093/ageing/afae064

Nadaud., J., et al., (2024). The Effect of a Hip Fragility Pathway on Outcomes of Ground Level Falls in the Elderly. *The American surgeon*. https://doi.org/10.1177/00031348241241685

O'Connor, L., et al., (2024a). Factors Impacting the Implementation of Mobile Integrated Health Programs for the Acute Care of Older Adults [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2333034

van. Houten., ME., et al. (2024). ERASE: a feasible early warning tool for elder abuse, developed for use in the Dutch emergency department. *BMC emergency medicine*, *24*(1). https://doi.org/10.1186/s12873-024-00971-6

Watkins., PM., et al., (2024). Emergency Medical Service Attendances for Adults with Repeat Falls in Western Australia: A State-Wide Retrospective Cohort Study. *Prehospital emergency care*. https://doi.org/10.1080/10903127.2024.2338915

On-Scene Interventions

Abel, S., & Mallinson, T. (2024). Prehospital serratus anterior plane block for rib fractures [article-commentary]. *Journal of Paramedic Practice*, *16*(4). https://doi.org/10.12968/jpar.2024.16.4.166

Ali, S., et al., (2024). A national multi centre pre-hospital ECPR stepped wedge study; design and rationale of the ON-SCENE study [OriginalPaper]. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, *32*(1), 1-10. https://doi.org/doi:10.1186/s13049-024-01198-x

Bath., MF., et al., (2024). Trends in pre-hospital volume resuscitation of blunt trauma patients: a 15-year analysis of the British (TARN) and German (TraumaRegister DGU®) National Registries. *Critical care (London, England)*, *28*(1). https://doi.org/10.1186/s13054-024-04854-x

Betend., R., et al., (2023). Association between prehospital physician clinical experience and discharge at scene - retrospective cohort study. *Swiss medical weekly*, *153*. https://doi.org/10.57187/s.3533

Fouche, P. F., Nichols, M., Scott, J., Richardson, J., & Bendall, J. (2024). Crystalloid Fluid Management of Non-Traumatic Hypotension by New South Wales Ambulance [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2306247

Gottfried, A., et al., (2024). Hemorrhagic Shock in Isolated and Non-Isolated Pelvic Fractures: A Registries-Based Study [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2322014

Harwood, A., et al., (2024). Pre-hospital, pre-antibiotic blood cultures for patients with suspected sepsis-a feasibility study. *The New Zealand medical journal*, *137*(1592). https://doi.org/10.26635/6965.6382

Hawkins, E., eric.hawkins@atriumhealth.org, Gostigian, G., & Diurba, S. (2024). Lightning Strike Injuries. *Emergency Medicine Clinics*, *0*(0). https://doi.org/10.1016/j.emc.2024.02.021

Hayes.-Bradley., et al., (2024). Predictive and protective factors for failing first pass intubation in prehospital rapid sequence intubation: an aetiology and risk systematic review with meta-analysis. *British journal of anaesthesia*, *132*(5). https://doi.org/10.1016/j.bja.2024.02.004

Jama., T., (2024). Factors affecting physicians' decision to start prehospital blood product transfusion in blunt trauma patients: A cohort study of Helsinki Trauma Registry. *Transfusion*. https://doi.org/10.1111/trf.17791

Jensen., E., et al. (2024). Changes in temperature in preheated crystalloids at ambient temperatures relevant to a prehospital setting: an experimental simulation study with the application of prehospital treatment of trauma patients suffering from accidental hypothermia. *BMC emergency medicine*, *24*(1). https://doi.org/10.1186/s12873-024-00969-0

Kajino, K. (2024). Development and validation of a prehospital termination of resuscitation (TOR) rule for out - of hospital cardiac arrest (OHCA) cases using

general purpose artificial intelligence (AI) *Resuscitation*, *197*. https://doi.org/10.1016/j.resuscitation.2024.110165

Kalafatis., L., et al., (2024). Management of primary spontaneous pneumothorax: Did practice change after a landmark multicentre study? *Emergency medicine Australasia : EMA*. https://doi.org/10.1111/1742-6723.14427

Kawauchi., A., et al., (2024). Evaluating the impact of ELSO guideline adherence on favorable neurological outcomes among patients requiring extracorporeal cardiopulmonary resuscitation for out-of-hospital cardiac arrest. *Resuscitation*. https://doi.org/10.1016/j.resuscitation.2024.110218

Kido, N., et al., (2024). Exploring the Potential of CarbonCool® in Rapid Prehospital Cooling for Severe Heat Stroke [report]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2323575

Ko., YC., et al., (2024). Effectiveness and safety of tourniquet utilization for civilian vascular extremity trauma in the pre-hospital settings: a systematic review and meta-analysis. *World journal of emergency surgery : WJES*, *19*(1). https://doi.org/10.1186/s13017-024-00536-9

Lee., AF., et al., (2024). A comparison between intraosseous and intravenous access in patients with out-of-hospital cardiac arrest: A retrospective cohort study. *The American journal of emergency medicine*, *80*. https://doi.org/10.1016/j.ajem.2024.04.009

McCarthy, E. M., Burns, K., Schuster, K. M., & Cone, D. C. (2024). Tourniquet Use in the Prehospital Setting [report]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2240383

Morrison, C., Renfrew, L., & McHenry, R. (2024). Support from advanced practitioners in critical care for ankle fracture dislocation [research-article]. *Journal of Paramedic Practice*, *16*(4). https://doi.org/10.12968/jpar.2024.16.4.140

Muniz, A., Gregorio, D., Studebaker, S., Peth, A., Camacho, C., Williams, B., . . . Brown, L. (2024). Time Savings and Safety of EMS Administration of Antibiotics for Open Fractures [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2347291

O'Brien., MC., et al., (2024). Fixed dose ketamine for prehospital management of hyperactive delirium with severe agitation. *The American journal of emergency medicine*, *81*. https://doi.org/10.1016/j.ajem.2024.04.011

Pil, E., Levy, M., Chizmar, T., Troncoso, R., Garfinkel, E., & Margolis, A. (2024). Efficacy and Safety of Prehospital Diltiazem [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2326598

Schoenfeld., DW., et al. (2024a). Assessing the one-month mortality impact of civilian-setting prehospital transfusion: A systematic review and meta-analysis. *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*. https://doi.org/10.1111/acem.14882

Smida, T., Crowe, R., Jarvis, J., Ratcliff, T., & Goebel, M. (2024). Retrospective Comparison of Upper and Lower Extremity Intraosseous Access During Out-of-Hospital Cardiac Arrest Resuscitation [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2321285

Song, J.-X., et al., (2024). Therapeutic efficacy of tranexamic acid on traumatic brain injury: a systematic review and meta-analysis [OriginalPaper]. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, *32*(1), 1-12. https://doi.org/10.1186/s13049-024-01188-z

Standifird, CH., et al., (2024). Implementing Tourniquet Conversion Guidelines for Civilian EMS and Prehospital Organizations : A Case Report and Review. *Wilderness & environmental medicine*. https://doi.org/10.1177/10806032241234667

Travis, HJ., et al., (2024). Prehospital Needle Decompression of Suspected Tension Pneumothorax: Outcomes and Consequences. *The American surgeon*. https://doi.org/10.1177/00031348241241739

Vella., SP., et al., (2024). Perceptions and experiences of paramedics managing people with non-traumatic low back pain: a qualitative study of Australian paramedics. *BMJ open*, *14*(3). https://pubmed.ncbi.nlm.nih.gov/38508615/

Yamada., H., et al. (2024). Emergency medical service response for cases of stroke-suspected seizure: A population-based study. *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*, *33*(6). https://doi.org/10.1016/j.jstrokecerebrovasdis.2024.107681

COVID 19 All Papers

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.

Levi, DB., et al., (2024). The i-gel® supraglottic airway device compared to endotracheal intubation as the initial prehospital advanced airway device: A natural experiment during the COVID-19 pandemic. *Journal of the American College of Emergency Physicians open*, *5*(2). https://doi.org/10.1002/emp2.13150

Airway Management, Resuscitation & CPR

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.

Amagasa., S., et al., (2024). Early versus late advanced airway management for adult patients with out-of-hospital cardiac arrest: A time-dependent propensity score-matched analysis. *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*. https://doi.org/10.1111/acem.14907

Anderson, K. L., et al., (2024). Differences in Out-of-Hospital Cardiac Arrest Outcomes Among 5 Racial/Ethnic Groups [research-article]. *Prehospital*

Emergency Care, *Online First*. https://doi.org/10.1080/10903127.2024.2335639

Aoki., M., et al., (2024). Association between gasping and survival among out-of-hospital cardiac arrest patients undergoing extracorporeal cardiopulmonary resuscitation: The SOS-KANTO 2017 study. *Resuscitation plus*, *18*. https://doi.org/10.1016/j.resplu.2024.100622

Cheskes, S., et al., (2024). The impact of alternate defibrillation strategies on shock-refractory and recurrent ventricular fibrillation: A secondary analysis of the DOSE VF cluster randomized controlled trial. *Resuscitation*, *0*(0). https://doi.org/10.1016/j.resuscitation.2024.110186

Coute, R. A., et al., (2024). The Public Health and Economic Impact of Drug Overdose Out-of-Hospital Cardiac Arrest in the United States [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2024.2327526

Dicker., B., et al., (2024). Are two shocks better than one? Aotearoa New Zealand emergency medical services implement a new defibrillation strategy: implications for around nine patients per week. *The New Zealand medical journal*, *137*(1592). https://doi.org/10.26635/6965.6429

Doan, T. N., Rashford, S., Sims, L., Wilson, K., Garner, S., & Bosley, E. (2024). Suicide-Related Out-of-Hospital Cardiac Arrests in Queensland, Australia: Temporal Trends of Characteristics and Outcomes over 14 Years [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2230595

Esangbedo, I. (2024). Pediatric out-of-hospital cardiac arrest still needs more attention - Resuscitation. *Resuscitation*, *198*. https://doi.org/10.1016/j.resuscitation.2024.110195

Feldman., M., et al. (2024). Safety and Adverse Events During Primary Care Paramedic Interfacility Transfer of Stable STEMI Patients. *Prehospital emergency care*. https://doi.org/10.1080/10903127.2024.2342569

Fijacko, N., et al. (2024). Strategic placement of automated external defibrillators at city bicycle-sharing stations: Exploring the potential Resuscitation. *Resuscitation*, *198*. https://doi.org/10.1016/j.resuscitation.2024.110193

Fijakho., N., et al., Spreading awareness about automated external defibrillators by using location-based mobile game called geocaching - Resuscitation. (2024). *Resuscitation*, *198*. https://doi.org/10.1016/j.resuscitation.2024.110204

Flamm, A., & Waldron, O., (2024). There Is No Evidence to Support the Use of Video Laryngoscopes Without a Stylet in the Prehospital Setting. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.09.006

Hubble., MW., et., (2024). Influence of Patient Weight on Prehospital Advanced Airway Procedure Success Rates. *Prehospital emergency care*. https://doi.org/10.1080/10903127.2024.2338459

Kimbrell, J., et al., (2024). False Electrical Capture in Prehospital Transcutaneous Pacing by Paramedics: A Case Series [research-article]. *Prehospital*

Emergency Care, *Online First*. https://doi.org/10.1080/10903127.2024.2321287

Lubkin., DT., et al. (2024). Does an early, balanced resuscitation strategy reduce the incidence of hypofibrinogenemia in hemorrhagic shock? *Trauma surgery & acute care open*, *9*(1). https://doi.org/10.1136/tsaco-2023-001193

Meilandt., C., et al., (2024). Association Between Defibrillation Using LIFEPAK 15 or ZOLL X Series and Survival Outcomes in Out-of-Hospital Cardiac Arrest: A Nationwide Cohort Study. *Journal of the American Heart Association*, *13*(7). https://doi.org/10.1161/JAHA.123.033913

Munot, S., et al., (2024). Bystander cardiopulmonary resuscitation differences by sex – The role of arrest recognition. *Resuscitation*, *0*(0). https://doi.org/10.1016/j.resuscitation.2024.110224

Murray, J., Raja, E. A., Plascevic, J., Jacunski, M., & Cooper, J. G. (2024). Is arrival by ambulance a risk factor for myocardial infarction in emergency department patients with cardiac sounding chest pain? *Emergency Medicine Journal*, *Online First*. https://doi.org/10.1136/emermed-2023-213643

Nakayama, R., Bunya, N., Uemura, S., Sawamoto, K., & Narimatsu, E. (2024). Prehospital Advanced Airway Management and Ventilation for Out-of-Hospital Cardiac Arrest with Prehospital Return of Spontaneous Circulation: A Prospective Observational Cohort Study in Japan [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2260479

Norii., T., et al., (2024). The effects of bystander interventions for foreign body airway obstruction on survival and neurological outcomes: Findings of the MOCHI registry. *Resuscitation*. https://doi.org/10.1016/j.resuscitation.2024.110198

Orkin, AM., & Dezfulian, C., (2024). Recognizing the fastest growing cause of out-of-hospital cardiac arrest. *Resuscitation*, *198*. https://doi.org/10.1016/j.resuscitation.2024.110206

Quinn, E., et al., (2024). Outcomes of Out-of-Hospital Cardiac Arrest Patients Who Received Naloxone in an Emergency Medical Services System With a High Prevalence Of Opioid Overdose. *Journal of Emergency Medicine*, *0*(0). https://doi.org/10.1016/j.jemermed.2024.03.038

Rahadian., RE., et al., (2024). Machine learning prediction of refractory ventricular fibrillation in out-of-hospital cardiac arrest using features available to EMS. *Resuscitation plus*, *18*. https://doi.org/10.1016/j.resplu.2024.100606

Rupp., D., (2024). Resuscitation (un-)wanted: Does anyone care? A retrospective real data analysis. *Resuscitation*, *198*. https://doi.org/10.1016/j.resuscitation.2024.110189

Shaeri, S., et al. (2024). Accuracy of etiological classification of out-of-hospital cardiac arrest: A scoping review - Resuscitation. *Resuscitation*. https://doi.org/10.1016/j.resuscitation.2024.110199

Starr., N., & Kornblith., L., (2024). Prehospital balanced resuscitation may mitigate hypofibrinogenemia in traumatic hemorrhagic shock. *Trauma surgery & acute care open*, *9*(1). https://doi.org/10.1136/tsaco-2023-001354

Talmy, T., et al., (2024). Survival following Prehospital Traumatic Cardiac Arrest Resuscitation in the Israel Defense Forces: A Retrospective Study [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2241542

Tunc., EM., et al., (2024). Virtual Reality Simulation in Pediatric Resuscitation for Pre-hospital Providers. *Cureus*, *16*(3). https://doi.org/10.7759/cureus.56090

Weigeldt., M., et al., (2024). In-hospital mortality after prehospital endotracheal intubation versus alternative methods of airway management in trauma patients. A cohort study from the TraumaRegister DGU®. *European journal of trauma and emergency surgery : official publication of the European Trauma Society*. https://doi.org/10.1007/s00068-024-02498-8

Wender, E. R., Counts, C. R., Dyke, M. V., Sayre, M. R., Maynard, C., & Johnson, N. J. (2024). Prehospital Administration of Norepinephrine and Epinephrine for Shock after Resuscitation from Cardiac Arrest [research-article]. *Prehospital Emergency Care*, *Online First*. https://doi.org/10.1080/10903127.2023.2252500

Wilkins, C. (2024). Perceptions of establishing advanced life support for out-of-hospital cardiac arrest [research-article]. *Journal of Paramedic Practice*, *16*(4). https://doi.org/10.12968/jpar.2024.16.4.148

Further Research Needed …

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.

Bath., MF., et al., (2024). Trends in pre-hospital volume resuscitation of blunt trauma patients: a 15-year analysis of the British (TARN) and German (TraumaRegister DGU®) National Registries. *Critical care (London, England)*, *28*(1). https://doi.org/10.1186/s13054-024-04854-x

CONCLUSION: Considerable variability exists in pre-hospital fluid resuscitation strategies for blunt trauma patients. Our data suggest a trend towards reduced pre-hospital fluid administration over time. This trend appears to be associated with improved coagulation function and decreased mortality rates. However, we acknowledge that these outcomes are influenced by multiple factors, including other improvements in pre-hospital care over time. **Future research should aim to identify which trauma populations may benefit, be harmed, or remain unaffected by different pre-hospital fluid resuscitation strategies.**

Goodacre., S., et al. (2024). Prehospital early warning scores for adults with suspected sepsis: the PHEWS observational cohort and decision-analytic modelling study. *Health technology assessment (Winchester, England)*, *28*(16). https://doi.org/10.3310/NDTY2403

CONCLUSIONS: No strategy is ideal but using NEWS2, in patients with a paramedic diagnostic impression of infection or sepsis could identify one-third to half of sepsis cases without prioritising unmanageable numbers. No other score provided clearly superior accuracy to NEWS2. **Research is needed to develop better definition, diagnosis and treatments for sepsis.**

Holmes., E., et al. (2024). Developing an alternative care pathway for emergency ambulance responses for adults with epilepsy: A Discrete Choice Experiment to understand which configuration service users prefer. Part of the COLLABORATE
project. *Seizure*, *118*. https://doi.org/10.1016/j.seizure.2024.04.008

DISCUSSION: Preferences differ to current practice but have minimal variation by seizure type or stakeholder. **Further work on feasibility of these pathways in England, and potentially beyond, is required.**

Webb., CT., et al., (2024). Validation of Air Medical Prehospital Triage Score in Determining Resource Utilization at Level 1 Trauma Centers. *Air medical journal*, *43*(2). https://doi.org/10.1016/j.amj.2023.10.001

CONCLUSION: The AMPT score reduced the number of patients who were inappropriately transported to a trauma center. However, this appeared to be at the expense of undertriage. **Future studies should focus on developing a refined air medical–specific triage tool that has both low overtriage rates as well as lower undertriage rates.**

How to contact your Library Service

Service	Contact	Services Offered
All ambulance services in England except SWASTand IOW.	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	Document Supply; Searches; Current Awareness; Guides & Help;
South Western Ambulance Service	eMail: library.mailbox@nhs.net Link to: http://discoverylibrary.org/SWASFT	Document Supply; Searches; Current Awareness; Guides & Help;
Isle of Wight	eMail: library@iow.nhs.uk Link to: Library Website	Full library membership of the Oliveira Library.