



Welcome to May / June 2025 issue of the
Prehospital Emergency Services Current Awareness Update.

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](#)

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[Further Research Needed](#)

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Thematic Analysis - Cross Referenced by First Author – AI Generated

Theme	First Author List (Separated by '; ')	Brief Description	Primary Original Category
1. Opioid & Substance Use Disorder (SUD) Interventions (12)	Bornstein; Broach; Engel; Gaw; Godfrey; Gormley; Hern; Joiner; Langabeer; Patch; Rettger; Ulintz; Vandergrift	Focuses on EMS integration of Medication-Assisted Treatment (MAT) for Opioid Use Disorder (e.g., Buprenorphine), management of opioid-related overdoses (Naloxone use/complications), and identification of emerging illicit substances like Medetomidine.	On-Scene Interventions; Prehospital Practitioners – Professional Development
2. Precise Cardiac Resuscitation & Quality (27)	Bánfai; Charleux; Debaty; Hindborg; Joshi; Kim; Kruit; Lee; Ma; Miura; Mølstrøm; Morgan; Niiranen; Paratz; Sakamoto; Sari; Schnaubelt; Semeraro; Stephenson; Stromberg; Takahashi; Turan; Vallentin; Walker; Yoon	Improving neuro-favorable outcomes from OHCA through high-fidelity protocols: optimizing CPR quality (feedback devices, chest compression technique, crew size), refining the timing and dosing of vasopressors , and determining post-resuscitation hemodynamic targets.	Airway Management, Resuscitation & CPR
3. Advanced Prehospital Assessment & Screening Tools (13)	Ahmad; Balen; Baumgarten; Jeong; Kjærgaard; Naylor; Nicoletta; Sandelich; Speijers; Squires; Strum; Tsze; Zègre-Hemsey	Validation of rapid screening scores and algorithms for time-critical conditions like Stroke (FAST-ED) and identifying impending clinical deterioration (Early Warning Scores). Also includes refining dispatch triage accuracy and defining frequent EMS user profiles .	Diagnosis and Triage
4. Workforce Well-being, Safety, & Competency (16)	Birkun; Chen; Cicero; Engelen; Fatai; Garner; Hill; Jarman; Khoshnood; Lavabre; Lindekilde; Veigl; Vihonen; Viking; Wampler	Covers the non-clinical health of the EMS workforce: studies on burnout, coping strategies, and job stress related to vulnerable patient exposure, effectiveness of specialized training models (e.g., SISU, RoadRes-Q), and mitigation of workplace violence .	Prehospital Practitioners – Professional Development
5. Trauma and Critical Care Transport Logistics (8)	Ateek; Breyre; Fritz; Larson; Lindsay; Ljungqvist; Lyng; Maloney	Research dedicated to high-acuity, specialized care delivery, focusing on HEMS outcomes , implementation of novel trauma-specific interventions (prehospital plasma/blood products, hypocalcemia correction), and logistical efficiency, especially patient hand-off/offload time.	HEMS and Air Medical; On-Scene Interventions



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- Birkun, A. A. (2025). Refining Emergency Medical Dispatch Pre-Arrival Instructions to Enhance Community Response for Seizures. *Academic Emergency Medicine*, 32(10). <https://doi.org/10.1111/acem.70086>
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Prehospital Research – Methods and Discussion

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- Cash, R. E., et al. (2025). Frequency and Factors Associated with Patient Safety Events During Prehospital Obstetric Emergencies. *Prehospital Emergency Care*. <https://doi.org/10.1080/10903127.2025.2514480>
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Helicopter Emergency Medical Services (HEMS) and Air Medical

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- Ateek, J., et al. (2025). State of the Evidence for Prehospital Plasma Infusion for Patients With Suspected Traumatic Hemorrhage: A Rapid Review by the Prehospital Evidence-Based Practice Program. *Air Medical Journal*, 44(4). <https://doi.org/10.1016/j.amj.2025.02.006>
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Patient Profile

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- Boulton, A. J., et al. (2025). Relationship between neighbourhood deprivation and ethnicity with attendance of prehospital critical care to out-of-hospital cardiac arrest patients. *Resuscitation*, 215. <https://doi.org/10.1016/j.resuscitation.2025.110663>
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On-Scene Interventions

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Airway Management, Resuscitation & CPR

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Original Category	Reference (First Author)	Conclusion Section with Recommendation
Airway Management, Resuscitation & CPR	Bánfai, B., et al. (2025). Improving feasibility of video-assisted cardiopulmonary resuscitation when only one lay responder is present. <i>Resuscitation</i> .	"Although V-CPR quality varied between environments, the method proved feasible even when responders acted alone. Further studies are needed to compare the results with existing V-CPR studies in the presence of more than one lay responder."
Airway Management, Resuscitation & CPR	Lee, J., et al. (2025). Intra-Arrest Transport and Neurological Outcomes in Out-of-Hospital Cardiac Arrest with Initial Shockable Rhythm Who Failed the First Defibrillation... <i>Prehospital Emergency Care</i> .	"In an EMS setting with a limited-service level, intra-arrest transport showed no benefit for OHCA patients with an initial shockable rhythm who remained in refractory shockable rhythms despite the first defibrillation attempt. High-quality on-scene management is crucial before the initiation of hospital transport. Further research is needed to develop integrated systems ensuring effective prehospital and hospital ¹ care."
Airway Management, Resuscitation & CPR	Kruit, N., et al. (2025). Pre-hospital ECPR for refractory cardiac arrest – The PRECARE pilot feasibility study. <i>Resuscitation</i> .	"Pre-hospital ECPR was feasible, using an experienced ECMO team from a single-centre. Overall survival was promising in this highly selected group. Further prospective studies are now warranted. "
Diagnosis and Triage	Sandelich, S., et al. (2025). A Comparison of Pediatric Prehospital Opioid Encounters and Social Vulnerability. <i>Prehospital Emergency Care</i> .	"Our findings underscore the importance of leveraging EMS data to understand social disparities and highlight the need for resources to address social determinants of health and the pediatric overdose epidemic. This underscores the need for further research to develop and implement effective strategies to address social disparities in prehospital care."
Diagnosis and Triage	Paulin, J., et al. (2025). Exploring care pathways of patients conveyed by emergency medical services (EMS) through electronic health records. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> .	"Machine learning can be used to predict subsequent events after EMS non-conveyance missions... However, further studies are needed without planned subsequent events to find out the harmful subsequent events, where EMS non-conveyance puts patient safety at risk."
Diagnosis and Triage	Kjærgaard, M., et al. (2025). How to Define a Frequent Caller to the Prehospital Emergency Medical Services? Literature-Based vs. Data-Driven Approach. <i>Prehospital Emergency Care</i> .	"We suggest that the 1%-definition is the most suitable for future research on frequent callers to the prehospital EMS as it was able to account for the complexity of this group of citizens and could be applied across prehospital EMS in other contexts and countries ² ."
On-Scene Interventions	Gaw, C. E., et al. (2025). Pediatric Emergency Medical Services Activations Involving Naloxone Administration. <i>Prehospital Emergency Care</i> .	"Our findings highlight the safety of prehospital naloxone use... Opportunities exist to leverage linked data sources to develop interventions to improve prehospital opioid poisoning recognition and management. Further research is needed to validate and test these interventions."

Workforce Well-being, Safety, & Competency	Khoshnood, A. M., & Wilhelms, D. B. (2025). Confronting workplace violence in emergency care: insights from global research. <i>BMC Emergency Medicine</i> .	"The studies collectively emphasize the need for tailored preventive measures, comprehensive frameworks, and continued research and innovation to improve patient care and healthcare provider safety."
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