



Welcome to July / August 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](#)

[Airway Management, Resuscitation & CPR](#)

[Further Research Needed](#)

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AI Usage Disclosure This document was created with assistance from AI tools. Specifically, the tables entitled **Top Five Themes** and **Further Research Needed**. The content has been reviewed and edited by a human. For more information on the extent and nature of AI usage, please contact Matt Holland [Matt.[Holland@nwas.nhs.uk](mailto:Matt.Holland@nwas.nhs.uk)].

Top Five Themes - AI Generated

Theme	First Author List (Separated by '; ')	Brief Description	Primary Original Category
1. Advancements in Resuscitation & CPR	Asai; Chen; Choi; Cibotto; Cowley; Finney; Hanlin; Homma; Huebinger; Järvenpää; Joiner; Joshi; Li; Loosley; Obara; Sari; Scquizzato; Smida; Smith; Snyder; Tabatabaei-Aghda; Tan; Thompson; Watson; Yoon	Research dedicated to optimizing time, quality, and technology (AEDs, drones, dispatcher guidance, advanced airways) for cardiac arrest outcomes.	Airway Management, Resuscitation & CPR
2. Workforce Health, Diversity, and Safety	Amorim Adegboye; Aubel; Chen; Damsgaard; Dannvall; Dod; Frankland; Gheri; Lindekilde; López-Picazo; Lowe; Marung; McGuire; Melgoza; Middleton; Moore; Wilson	Focus on personnel issues including mental health (PTSD, burnout), diversity, attrition, training, and mitigating workplace violence (WPV) against clinicians.	Prehospital Practitioners – Professional Development
3. Time-Critical Systems for Stroke and Trauma	Barrett; Dearden; Dimcea; Eliakundu; Iyanna; Jahr; Jang; Kuc; McHenry; Millin; Zangi	Evaluation of pathways and system adherence (e.g., bypass, performance indicators) for high-acuity, time-sensitive neurological and traumatic injuries (TBI, stroke, spinal cord).	On-Scene Interventions & Diagnosis & Triage
4. Alternative Pathways and Patient Flow	Austin; Carrillo; Fillingham; Harring; Heinonen; Holzinger; Jensen; Lindridge; Ong; Strum; Tsao; Ulintz	Studies examining prehospital alternatives to Emergency Department transport, managing non-urgent calls and frequent users, and assessing patient capacity and needs (MIH/CP models).	Patient Profile & Diagnosis & Triage
5. Specialized Care and Aviation Medicine	Baumgartner; DeMarco; Fjeld; Panula; Shaw; Tsuchiya; Yap	Research covering the unique clinical, safety, human factors, and operational demands of Helicopter Emergency Medical Services (HEMS) and critical care transport.	Helicopter Emergency Medical Services

Prehospital Practitioners – Professional Development

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- Amorim Adegboye, A. R., Jones, U., Gilkes, G., Kozłowska, B., Carroll, J. M., Rehling, T., Antwi, E., Sumera, K., Parr, M., Mansell, C., & Kneafsey, R. (2025). Addressing the lack of ethnic diversity in the UK paramedic profession: a call for action. *British Paramedic Journal*, 10(1). <https://doi.org/10.29045/14784726.2025.6.10.1.62>
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Mental Health Symptoms in Personnel Working in Helicopter Emergency Medical Services: A Systematic Review. *Air Medical Journal*, 44(5). <https://doi.org/10.1016/j.amj.2025.06.019>

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Prehospital Research – Methods and Discussion

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- **Martin-Gill, C., Patterson, P. D., Richards, C. T., Misra, A. J., Potts, B. T., Cash, R. E., & Consortium, f. t. P.**

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Helicopter Emergency Medical Services (HEMS) and Air Medical

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Diagnosis and Triage

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Patient Profile

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On-Scene Interventions

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Theme	Complete Reference	Brief Description
Workforce Health	Amorim Adegboye, A. R., Jones, U., Gilkes, G., Kozłowska, B., Carroll, J. M., Rehling, T., Antwi, E., Sumera, K., Parr, M., Mansell, C., & Kneafsey, R. (2025). Addressing the lack of ethnic diversity in the UK paramedic profession: a call for action. <i>British Paramedic Journal</i> , 10(1). https://doi.org/10.29045/14784726.2025.6.10.1.62	Calls for urgent action and dedicated funding for research to address the lack of ethnic diversity and establish baseline data in the UK paramedic profession.
System	Chiu, Y.-C., Liu, C.-H., Chiu, Y.-L., Wang, L.-W., Chen, H.-L.,	Future research could use robust

Implementation	& Yang, C.-W. (2025). The Influencing Factors of Implementation in Emergency Medical Service Systems – A Scoping Review. <i>Prehospital Emergency Care</i> , 29(5). https://doi.org/10.1080/10903127.2024.2386444	designs to evaluate the effectiveness of implementation strategies in EMS and identify the strategies most effective for specific system contexts.
Clinical Practice Gaps	Collings-Hughes, D., Smith, A., & Ball, S. (2025). Drowning in research? A scoping review of the emergency response to medical emergencies occurring in water-based environments. <i>Australasian Emergency Care</i> , 0(0). https://doi.org/10.1016/j.auec.2025.08.003	Highlights a lack of high-quality evidence to guide treatment of drowning patients prehospital, with urgent need for investigation into optimal management (e.g., airway, circulation).
Workforce Health	Damsgaard, K., Melander-Nyboe, P., Pihl-Thingvad, J., Steinmetz, J., & Gehrt, T. B. (2025). Common Mental Health Symptoms in Personnel Working in Helicopter Emergency Medical Services: A Systematic Review. <i>Air Medical Journal</i> , 44(5). https://doi.org/10.1016/j.amj.2025.06.019	Calls for high-quality, longitudinal studies to investigate mental health symptoms and evaluate the effects of preventative interventions among HEMS personnel.
Alternative Pathways	Fillingham, B., & Kirby, K. (2025). Barriers to paramedics using alternative pathways for patients near the end of life. <i>Journal of Paramedic Practice</i> , 17(8). https://doi.org/10.12968/jpar.2025.0009	Future research is required on the efficacy of clinical practice guideline implementation, patient/organizational safety impacts, and health economic evaluations for alternative care pathways.
Patient Profile	Harring, A. K. V., Kjærgaard, M., & Gehrt, T. B. (2025). Frequent callers vs. frequent users – a scoping review of frequent contacts to the emergency medical services. <i>International Journal of Emergency Medicine</i> 2025 18:1, 18(1). https://doi.org/10.1186/s12245-025-00925-0	Recommends further prospective research to establish consistent definitions and robust intervention evaluations for the vulnerable frequent caller patient group due to current data heterogeneity.
Workforce Health	Middleton, R., Capper, T., King, R., & Devenish, S. (2025). Understanding paramedic attrition: A scoping review exploring why paramedics are leaving the profession. <i>Australasian Emergency Care</i> , 0(0). https://doi.org/10.1016/j.auec.2025.07.002	Identifies a critical need for research investigating how to develop and implement effective organizational retention strategies, moving beyond just identifying causes of leaving.
System Implementation	Ulintz, A. J., O'Connor, L. C., Heffern, T. M., Rowe, J., Rollman, J. E., Wingrove, G., Zavadsky, M., Wilcox, M. R., & Goldberg, S. A. (2025). Mobile Integrated Health Care and Community Paramedicine: A Position Statement and Resource Document of NAEMSP. <i>Prehospital Emergency Care</i> . https://doi.org/10.1080/10903127.2025.2541899	States that future research utilizing uniform core outcome measures is needed to determine the true effectiveness and sustainability of MIH-CP program designs.
Research Methods	Ventrapragada, A., Gumucio, J. A., Salcido, D. D., & Menegazzi, J. J. (2025). Revisiting the “Scanty Science” of Prehospital Emergency Care 25 Years Later. <i>Prehospital Emergency Care</i> , 29(5). https://doi.org/10.1080/10903127.2024.2396954	Concludes with a call for renewed dedication to multi-center trials and collaborative research efforts to strengthen the scientific foundation of emergency medical care.
Clinical Practice Gaps	Yadollahifar, S., Aminizadeh, M., Nasiriani, K., Tafti, A. A. D., Sefidkar, R., Mirzaei, S., Yadollahifar, S., Aminizadeh, M., Nasiriani, K., Tafti, A. A. D., Sefidkar, R., & Mirzaei, S. (2025). Identifying the components of prehospital emergency preparedness in radiological and nuclear	Highlights significant knowledge gaps in prehospital R/N incident preparedness, concluding that comprehensive, simulation-based research is crucial for developing

incidents: a scoping review. *BMC Emergency Medicine* 2025 25:1, 25(1). <https://doi.org/10.1186/s12873-025-01258-0>

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