



**Prehospital Emergency Services  
Current Awareness Update  
Issue 112, July/August 2025**

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

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

This is an edited version of  
the update for SWASFT staff

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*Prehospital Emergency Services Current Awareness Update – Issue 112, Jul-Aug 2025*

**With thanks to Matt Holland, LKS ASE Librarian** (on behalf of the National Ambulance Research Steering Group).

*This Current Awareness Update was commissioned by the National Ambulance Research Steering Group comprising of research leads from ambulance trusts in England, Scotland and Wales and other experts and groups supporting prehospital research. The aim of the group is to support the strategic development of ambulance and prehospital research whether leading, collaborating in or using research.*

The research papers have been arranged by the topic headings below:

[Prehospital Practitioners – Professional Development](#)

[Prehospital Research – Methods and Discussion](#)

[Diagnosis & Triage](#)

[Patient Profile](#)

[Helicopter Emergency Medical Services](#)

[On-Scene Interventions](#)

[Airway Management, Resuscitation & CPR](#)

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Smida, T. et al. (2025). Prehospital Transcutaneous Cardiac Pacing in the United States: Treatment Epidemiology, Predictors of Treatment Failure, and Associated Outcomes. *Prehospital Emergency Care*, 29(5).

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Smith, A. et al. (2025). So close, yet so far: Understanding the relationship between ambulance mobilisation times and survival from out-of-hospital cardiac arrest in rural Western Australia. *Australasian Emergency Care*, 0(0).

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Snyder, S. et al. (2025). Distinguishing Subtypes of Unwitnessed Out-of-Hospital Cardiac Arrest by Estimated Last Seen Alive Time. *Prehospital Emergency Care*.  
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Tabatabaei-Aghda, S.-A. et al. (2025). Comparison of Outcomes between Standard Cardiopulmonary Resuscitation (S-CPR) and Over-the-Head Cardiopulmonary Resuscitation (OTH-CPR): A Systematic Review and Meta-Analysis. *Journal of Emergency Medicine*, 78.  
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Tan, X. et al. (2025). Video-Assisted Versus Audio-Assisted Dispatcher Cardiopulmonary Resuscitation for Optimizing Compression Quality in Simulated Scenarios: A Network Meta-Analysis of Randomized Controlled Trials. *Prehospital Emergency Care*.  
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Thompson, K. et al. (2025). Gender Differences in Defibrillator Practices in Out-of-Hospital Cardiac Arrest. *Prehospital Emergency Care*, 29(5).  
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Yoon, S. A. et al. (2025). Association Between the Number of Emergency Medical Services and the Chest Compression Quality in Out-of-Hospital Cardiac Arrest. *Journal of Emergency Medicine*, 75.  
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Further Research Needed-AI GENERATED

Theme	Complete Reference	Brief Description
Workforce Health	<b>Amorim Adegboye, A. R., Jones, U., Gilkes, G., Kozłowska, B., Carroll, J. M., Rehling, T., Antwi, E., Sumera, K., Parr, M., Mansell, C., &amp; Kneafsey, R.</b> (2025). Addressing the lack of ethnic diversity in the UK paramedic profession: a call for action. <i>British Paramedic Journal</i> , 10(1). Click <a href="#">here</a> to access fulltext (open access as of 12/11/2025)	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 Implementation	<b>Chiu, Y.-C., Liu, C.-H., Chiu, Y.-L., Wang, L.-W., Chen, H.-L., &amp; Yang, C.-W.</b> (2025). The Influencing Factors of Implementation in Emergency Medical Service Systems – A Scoping Review. <i>Prehospital Emergency Care</i> , 29(5). Click <a href="#">here</a> to access fulltext (open access as of 12/11/2025)	Future research could use robust designs to evaluate the effectiveness of implementation strategies in EMS and identify the strategies most effective for specific system contexts.
Clinical Practice Gaps	<b>Collings-Hughes, D., Smith, A., &amp; Ball, S.</b> (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). Click <a href="#">here</a> to access fulltext (open access as of 12/11/2025)	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	<b>Damsgaard, K., Melander-Nyboe, P., Pihl-Thingvad, J., Steinmetz, J., &amp; Gehrt, T. B.</b> (2025). Common Mental Health Symptoms in Personnel Working in Helicopter Emergency Medical Services:	Calls for high-quality, longitudinal studies to investigate mental health symptoms and evaluate the

	A Systematic Review. <i>Air Medical Journal</i> , 44(5). Click <a href="#">here</a> to access fulltext-SWASFT Athens required (register <a href="#">here</a> ). Click <a href="#">here</a> to access free abstract	effects of preventative interventions among HEMS personnel.
Alternative Pathways	<b>***SWASFT authors*** Fillingham, B., &amp; Kirby, K.</b> (2025). Barriers to paramedics using alternative pathways for patients near the end of life. <i>Journal of Paramedic Practice</i> , 17(8). Click <a href="#">here</a> to access fulltext-SWASFT Athens required (register <a href="#">here</a> ). Click <a href="#">here</a> to access free abstract	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	<b>Harring, A. K. V., Kjærgaard, M., &amp; Gehrt, T. B.</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). Click <a href="#">here</a> to access fulltext (open access as of 12/11/2025)	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	<b>Middleton, R., Capper, T., King, R., &amp; Devenish, S.</b> (2025). Understanding paramedic attrition: A scoping review exploring why paramedics are leaving the profession. <i>Australasian Emergency Care</i> , 0(0). Click <a href="#">here</a> to access fulltext (open access as of 12/11/2025)	Identifies a critical need for research investigating <b>how</b> to develop and implement effective organizational retention strategies, moving beyond just identifying causes of leaving.
System Implementation	<b>Ulintz, A. J., O'Connor, L. C., Heffern, T. M., Rowe, J., Rollman, J. E., Wingrove, G., Zavadsky, M., Wilcox, M. R., &amp; Goldberg, S. A.</b> (2025). Mobile Integrated Health Care and Community Paramedicine: A Position Statement and Resource Document of NAEMSP. <i>Prehospital Emergency Care</i> . Click <a href="#">here</a> to access fulltext (open access as of 12/11/2025)	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	<b>Ventrapragada, A., Gumucio, J. A., Salcido, D. D., &amp; Menegazzi, J. J.</b> (2025). Revisiting the “Scanty Science” of Prehospital Emergency Care 25 Years Later. <i>Prehospital Emergency Care</i> , 29(5). Click <a href="#">here</a> to access fulltext-SWASFT Athens required (register <a href="#">here</a> ). Click <a href="#">here</a> to access free abstract	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	<b>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., &amp; Mirzaei, S.</b> (2025). Identifying the components of prehospital emergency preparedness in radiological and nuclear incidents: a scoping review. <i>BMC Emergency Medicine</i> 2025 25:1, 25(1).	Highlights significant knowledge gaps in prehospital R/N incident preparedness, concluding that comprehensive, simulation-based research is crucial for developing and validating effective response protocols.

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