Welcome to January 2021 issue of the Prehospital Emergency Services Current Awareness Update.

Amber – the home of ambulance service research

Amber is available from [https://amber.openrepository.com](https://amber.openrepository.com) amber contains records of research published by researchers and staff working for NHS ambulance services in England.

To find out more about amber go to the LKS ASE website. If you think your research should be included in amber please contact library@nwas.nhs.uk We are still adding to amber and hope to have the database complete by December 2020.

NHS OpenAthens

Working from home? Access resources using your NHS OpenAthens account. You can register for an NHS OpenAthens account at any time from this link [https://openathens.nice.org.uk](https://openathens.nice.org.uk).

Twitter

@LksAse tweets the latest paramedic research as it’s published from leading peer reviewed journals.

KnowledgeShare your personalised Current Awareness Service

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Feedback

Send feedback to Matt Holland, LKS ASE Librarian (on behalf of the National Ambulance Research Steering Group). You can eMail Matt at Matt.Holland@nwas.nhs.uk.

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.

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

Prehospital Practioners – Professional Development

You may access papers using your NHS OpenAthens account. Some papers may be available as Open Access.


http://doi.org/10.1111/jebm.12424

http://doi.org/10.31662/jmaj.2020-0074

https://europepmc.org/article/MED/33320732


http://doi.org/10.1016/j.ajem.2021.02.003


http://doi.org/10.12968/jpar.2021.13.2.54

http://doi.org/10.3389/fpsyt.2020.602064

https://doi.org/10.1111/1742-6723.13716

http://doi.org/10.1002/nop2.703

http://doi.org/10.1016/j.resuscitation.2021.01.034

https://doi.org/10.1080/10903127.2020.1863532

Wang, Y., et al. (2021). Quantifying the economic benefit of the personal alarm and emergency response system in Australia: a cost analysis of the reduction in ambulance attendances. *Australian health review : a publication of the*


Diagnosis and Triage


**Patient Profile**

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**Children**


**Conditions**


**Older People**


**Adult**


**Self Harm**

True, G., et al. (2021). Strategies to Care for Patients Being Treated in the Emergency Department After Self-harm: Perspectives of Frontline

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On-Scene Interventions

You may access papers using your NHS OpenAthens account. Some papers may be available as Open Access.


Airway Management, Resuscitation & CPR

You may access papers using your NHS OpenAthens account. Some papers may be available as Open Access.


Sanfilippo, F. (2021). Cerebral regional oxygen saturation during cardiopulmonary resuscitation and return of spontaneous circulation: A systematic review and

http://doi.org/10.1016/j.resuscitation.2021.01.040


http://doi.org/10.1136/emermed-2020-209944


http://doi.org/10.1016/j.resuscitation.2021.01.043


http://doi.org/10.1016/j.resuscitation.2021.01.042

http://doi.org/10.1016/j.ajem.2020.01.038

Further Research Needed … 

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https://europepmc.org/article/MED/33502151

CONCLUSION: Existing prehospital triage tools may not accurately identify elderly patients with serious injury. Future work should focus on more relevant reference standards, establishing the best trade-off between undertriage and overtriage, optimizing the role prehospital clinician judgment, and further developing geriatric specific triage variables and thresholds.

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**CONCLUSION:** In this national cohort of drowning patients in cardiac arrest, SGA use was associated with significantly lower odds of survival to hospital admission and discharge. However, survival to discharge with favorable neurological outcome did not differ significantly between airway management techniques. Further studies will need to examine if airway intervention order or time to intervention affects outcomes.


**CONCLUSIONS:** Air-lifted trauma patients were younger, more severely injured, and more hemodynamically unstable and required longer transport time but experienced lower adjusted mortality. Future research is needed to investigate whether reducing transport times and augmenting the advanced care already implemented by HEMS crews can improve outcomes.


**Conclusion:** This scoping review found that there is very limited evidence from observational studies to inform evidence based clinical practice guidelines for drowning. The review highlights an urgent need for high quality research in drowning.


**Conclusions:** We found significant variation between current ALS guideline recommendations for treating anaphylaxis. While there is no new evidence to suggest a systematic review of guideline recommendations is needed, there may be an opportunity to produce more consistent international guideline recommendations and educational materials.

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