



Welcome to **March 2019** issue of the
Prehospital Emergency Services Current Awareness Update.

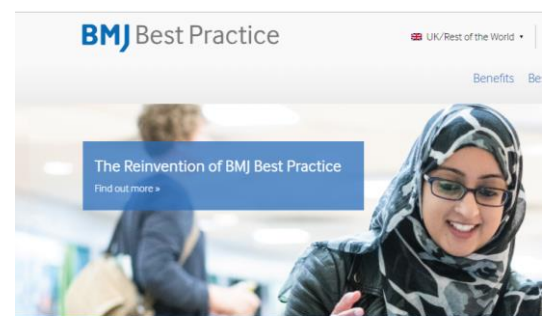
The aim of this Current Awareness Update is to provide a digest of information supporting evidence based practice in prehospital emergency services. Access to resources from open access and NICE Evidence Search journals are freely available to Ambulance Trust staff. A number may be only available via your local Library services, where they exist.

Welcome to the March Issue

NEW RESOURCES

BMJ Best Practice

All NHS staff with an NHS OpenAthens Account now have access to [BMJ Best Practice](#). A point of care tool, BMJ Best Practice gives step-by-step guidance on diagnosis, prognosis, prevention and treatment.



Journal of Paramedic Practice

LKS ASE users (excludes LAS & SWAFT) now have access to the [Journal of Paramedic Practice](#). This includes the complete archive but excludes excluding the last 12 months. You will need an NHS OpenAthens Account.



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Online Bibliography

All this month's articles included here are available through the Mendeley Group [Prehospital Emergency Care Current Awareness Current](#). Notes access requires a free one off registration. Then click through to see the Abstracts with links to sources of full text.

Last month's and all previous month's articles are available from the [backfile](#). This means that information about articles in in past updates is always available.

Pinboards and RSS

Articles are posted daily to a web based *pinboard* created using [Sparrho](#). The [Paramedic Practice](#) pinboard is updated daily.

The RSS feeds that are used to create this update are also available online via [Feedly](#). [Click through to see the RSS feeds](#).

Feedback to

Matt Holland, LKS ASE Librarian

(on behalf of the National Ambulance Research Steering Group)

Email: 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 & Best Practice

The following research papers have been published in the last couple of months.

- Papers listed as **Open Access** are freely available in full text from the link provided.
- Papers listed as **NHS Open Athens** will require you to log in with an **NHS Open Athens User Name** and **Password** to obtain the full text. These links take you to the abstract initially. To read the whole paper, choose either 'full text' or 'pdf' from the options on the abstract page. The full text option will present the article as a single webpage, the pdf. option will open as a digital copy of the original paper. Selecting either will open a page with the following link for you to enter your Athens username and password;

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The research 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](#)

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Prehospital Practitioners – Professional Development

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Abrashkin, K. A., Poku, A., Ramjit, A., Washko, J., Zhang, J., Guttenberg, M., & Smith, K. L. (2019). Community paramedics treat high acuity conditions in the home: a prospective observational study. *BMJ Supportive & Palliative Care*, bmjpspcare-2018-001746. <https://doi.org/10.1136/bmjpspcare-2018-001746> **Open Access**

Chan, J., Griffith, L. E., Costa, A. P., Leyenaar, M. S., & Agarwal, G. (2019). Community paramedicine: A systematic review of program descriptions and training. *CJEM*, 1–13. <https://doi.org/10.1017/cem.2019.14>

Eiding, H., Kongsgaard, U. E., & Braarud, A.-C. (2019). Interhospital transport of critically ill patients: experiences and challenges, a qualitative study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 27. <https://doi.org/10.1186/s13049-019-0604-8> **Open Access**

Felice, J., Coughlin, R. F., Burns, K., Chmura, C., Bogucki, S., Cone, D. C., ... Ulrich, A. (2019). Effects of Real-time EMS Direction on Optimizing EMS Turnaround and Load-balancing Between Neighboring Hospital Campuses. *Prehospital Emergency Care*, 1–7. <https://doi.org/10.1080/10903127.2019.1587123>

Guyette, F. X., & Yealy, D. M. (2019). Old and New: What Blood Is PROPPR in Trauma Resuscitation? *Annals of Emergency Medicine*. <https://doi.org/10.1016/J.ANNEMERGMED.2019.01.041>

Hegenberg, K., Trentzsch, H., Gross, S., & Prückner, S. (2019). Use of pre-hospital emergency medical services in urban and rural municipalities over a 10 year period: an observational study based on routinely collected dispatch data. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 35. <https://doi.org/10.1186/s13049-019-0607-5> **Open Access**

Hsuan, C., Hsia, R. Y., Horwitz, J. R., Ponce, N. A., Rice, T., & Needleman, J. (2019). Ambulance diversions following public hospital emergency department closures. *Health Services Research*, 1475–6773.13147. <https://doi.org/10.1111/1475-6773.13147>

Koceska, N., Komadina, R., Simjanoska, M., Koteska, B., Strahovnik, A., Jošt, A., ... Trontelj, J. (2019). Mobile wireless monitoring system for prehospital emergency care. *European Journal of Trauma and Emergency Surgery*. <https://doi.org/10.1007/s00068-019-01130-4> **Open Access**

Lewis, J., Lewis, J., Miles, M., Watson, T. A., & Lankford, E. (2019). Effect of intern and preceptor gender on internship experiences for paramedic training. *Australasian Journal of Paramedicine*, 16(0). <https://ajp.paramedics.org/index.php/ajp/article/view/627> **Open Access**

Mathur, S., Walter, S., Grunwald, I. Q., Helwig, S. A., Lesmeister, M., & Fassbender, K. (2019). Improving Prehospital Stroke Services in Rural and Underserved Settings With Mobile Stroke Units. *Frontiers in Neurology*, 10, 159. <https://doi.org/10.3389/fneur.2019.00159> **Open Access**

Pang, P. S., Litzau, M., Liao, M., Herron, J., Weinstein, E., Weaver, C., ... Miramonti, C. (2019). Limited data to support improved outcomes after community paramedicine intervention: A systematic review. *The American Journal of Emergency Medicine*. <https://doi.org/10.1016/j.ajem.2019.02.036>

Popal, Z., Bossers, S. M., Terra, M., Schober, P., de Leeuw, M. A., Bloemers, F. W., & Giannakopoulos, G. F. (2019). Effect of Physician-Staffed Emergency Medical Services (P-EMS) on the Outcome of Patients with Severe Traumatic Brain Injury: A Review of the Literature. *Prehospital Emergency Care*, 1–10. <https://doi.org/10.1080/10903127.2019.1575498> **Open Access**

Ragger, K., Hiebler-Ragger, M., Herzog, G., Kapfhammer, H.-P., & Unterrainer, H. F. (2019). Sense of coherence is linked to post-traumatic growth after critical incidents in Austrian ambulance personnel. *BMC Psychiatry*, 19(1), 89. <https://doi.org/10.1186/s12888-019-2065-z> **Open Access**

Ramgopal, S., Dunnick, J., Owusu-Ansah, S., Siripong, N., Salcido, D. D., & Martin-Gill, C. (2019). Weather and Temporal Factors Associated with Use of Emergency Medical Services. *Prehospital Emergency Care*, 1–9. <https://doi.org/10.1080/10903127.2019.1593563>

Sheridan, S., & Sheridan, S. (2019). Paramedic health status, fitness and physical tasks: A review of the literature. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.580> **Open Access**

Smith, C. A., Hardern, R. D., LeClerc, S., & Howes, R. J. (2019). Prehospital analysis of northern trauma outcome measures: the PHANTOM study. *Emergency Medicine Journal : EMJ*, 36(4), 213–218. <https://doi.org/10.1136/emered-2017-206848> **NHS Open Athens**

Smith-Bernardin, S. M., Kennel, M., & Yeh, C. (2019). EMS Can Safely Transport Intoxicated Patients to a Sobering Center as an Alternate Destination. *Annals of Emergency Medicine*. <https://doi.org/10.1016/J.ANNEMERGMED.2019.02.004>

Williams, K., Pace, C., Milia, D., Juern, J., & Rubin, J. (2019). Development of a Video Recording and Review Process for use in Trauma Resuscitation Quality and Education. *Western Journal of Emergency Medicine*, 20(2), 228–231. <https://doi.org/10.5811/westjem.2018.12.40951> **Open Access**

Wilson, A., Asbury, E., & Asbury, E. (2019). Improving simulation debriefing in paramedic education: the Paramedic Debrief Model. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.656> **Open Access**

Wong, C. C. W., Wilson, P. A., Grantham, P. H., & Grantham, P. H. (2019). An audit of paramedic administration of oxygen therapy to patients with suspected acute coronary syndrome. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.654> **Open Access**

Woodward, T., Hocking, J., James, L., & Johnson, D. (2019). Impact of an emergency department-run clinical decision unit on access block, ambulance ramping and National Emergency Access Target. *Emergency Medicine Australasia*, 31(2), 200–204. <https://doi.org/10.1111/1742-6723.13110>

Prehospital Research – Methods and Discussion

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Cole, J. B., Klein, L. R., Mullinax, S., Nordstrom, K. D., Driver, B. E., & Wilson, M. P. (2018). Study Enrollment when “Pre-Consent” is Utilized for a Randomized Trial of Two Treatments for Acute Agitation in the Emergency Department. *Academic Emergency Medicine*, acem.13673. <https://doi.org/10.1111/acem.13673>

Helicopter Emergency Medical Services (HEMS) and Air Medical

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Bauer, H., & Herbig, B. (2019). Occupational Stress in Helicopter Emergency Service Pilots From 4 European Countries. *Air Medical Journal*, 38(2), 82–94. <https://doi.org/10.1016/j.amj.2018.11.011>

Homma, H., Niiyama, Y., Sonoda, H., Himuro, N., & Yamakage, M. (2019). The Impact of Air Transport for Acute Coronary Syndrome Patients. *Air Medical Journal*, 38(2), 73–77. <https://doi.org/10.1016/j.amj.2018.11.008>

Lubin, J. S., & McCullum, K. E. (2019). Hot Loading Reduces Time to Intervention for ST-segment Elevation Myocardial Infarction Patients Being Transferred by Helicopter. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2019.02.002>

Lunde, A., & Braut, G. S. (2019). Overcommitment: Management in Helicopter Emergency Medical Services in Norway. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2019.03.003>

Stowell, A., Bobbia, X., Cheret, J., Genre Grandpierre, R., Moreau, A., Pommet, S., ... Claret, P.-G. (2019). Out-of-hospital Times Using Helicopters Versus Ground Services for Emergency Patients. *Air Medical Journal*, 38(2), 100–105. <https://doi.org/10.1016/j.amj.2018.11.017>

Thomas, S. H., Thomas, S. W., Thomas, S. A., & Pathan, S. (2019). Helicopter Emergency Medical Services Literature 1972-2017: Characteristics and Trends. *Air Medical Journal*, 38(2), 115–124. <https://doi.org/10.1016/J.AMJ.2018.11.016>

Yanagawa, Y., Nakamura, M., Saoyama, Y., & Mimura, S. (2019). Lessons Learned in Helicopter Operations During a Large Multiagency Disaster Prevention Drill in Japan. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2019.03.007>

Yao, H., Samoukovic, G., Farias, E., Cimone, S., Churchill-Smith, M., & Jayaraman, D. (2019). Safety and Flight Considerations for Mechanical Circulatory Support Devices During Air Medical Transport and Evacuation: A Systematic Narrative Review of the Literature. *Air Medical Journal*, 38(2), 106–114. <https://doi.org/10.1016/j.amj.2018.11.009>

Diagnosis and Triage

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Delirium: prevention, diagnosis and management | Guidance | NICE. 2019. Retrieved from <https://www.nice.org.uk/guidance/cg103> **Open Access**

Armenian, P., Effron, Z., Garbi, N., Dirks, R., Benowitz, N. L., & Gerona, R. R. (2019). Stimulant drugs are associated with violent and penetrating trauma. *The American Journal of Emergency Medicine*, 37(4), 645–650. <https://doi.org/10.1016/j.ajem.2018.06.071>

Bosson, N., Kaji, A. H., Gausche-Hill, M., Kim, D., Putnam, B., Schlesinger, S., ... Lewis, R. J. (2019). Evaluation of Trauma Triage Criteria Performance in a Regional Trauma System. *Prehospital Emergency Care*, 1–10. <https://doi.org/10.1080/10903127.2019.1588444>

Carey, J. M., Studnek, J. R., Browne, L. R., Ostermayer, D. G., Grawey, T., Schroter, S., ... Shah, M. I. (2019). Paramedic-Identified Enablers of and Barriers to Pediatric Seizure Management: A Multicenter, Qualitative Study. *Prehospital Emergency Care*, 1–14. <https://doi.org/10.1080/10903127.2019.1595234>

Forristal, C., Aarsen, K. Van, Columbus, M., Wei, J., Vogt, K., & Mal, S. (2019). Predictors of hypothermia upon trauma centre arrival in severe trauma patients transported to hospital via EMS. *Prehospital Emergency Care*, 1–10. <https://doi.org/10.1080/10903127.2019.1599474>

Greene, J. A., Deveau, B. J., Dol, J. S., & Butler, M. B. (2019). Incidence of mortality due to rebound toxicity after “treat and release” practices in prehospital opioid overdose care: a systematic review. *Emergency Medicine Journal : EMJ*, 36(4), 219–224. <https://doi.org/10.1136/emered-2018-207534> **NHS Open Athens**

- Hon, S., Gaona, S. D., Faul, M., Holmes, J. F., Nishijima, D. K., & Consortium, for the S. C. P. R. (2019). How Well Do EMS Providers Predict Intracranial Hemorrhage in Head-Injured Older Adults? *Prehospital Emergency Care*, 1–13. <https://doi.org/10.1080/10903127.2019.1597954>
- Javaudin, F., Hamel, V., Legrand, A., Goddet, S., Templier, F., Potiron, C., ... Montassier, E. (2019). Unplanned out-of-hospital birth and risk factors of adverse perinatal outcome: findings from a prospective cohort. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 26. <https://doi.org/10.1186/s13049-019-0600-z> **Open Access**
- Jouffroy, R., Saade, A., Tourtier, J. P., Gueye, P., Bloch-Laine, E., Ecollan, P., ... Vivien, B. (2019). Skin mottling score and capillary refill time to assess mortality of septic shock since pre-hospital setting. *The American Journal of Emergency Medicine*, 37(4), 664–671. <https://doi.org/10.1016/j.ajem.2018.07.010>
- Magalhães-Barbosa, M. C., Robaina, J. R., Prata-Barbosa, A., & Lopes, C. de S. (2019). Reliability of triage systems for paediatric emergency care: a systematic review. *Emergency Medicine Journal : EMJ*, 36(4), 231–238. <https://doi.org/10.1136/emered-2018-207781> **NHS Open Athens**
- Manley, N. R., Holley, J. E., Martin, L. J. C., Stavely, T. C., Croce, M. A., & Fischer, P. E. (2019). Survival after Prehospital Traumatic Cardiac Arrest: A Comparison of Isolated Head and Non-Head-Penetrating Injuries. *The American Surgeon*, 85(3), e123–e125. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/30947783>
- Martani, L., Cantadori, L., Paganini, M., Camporesi, E. M., & Bosco, G. (2019). Carbon monoxide intoxication: prehospital diagnosis and direct transfer to the hyperbaric chamber. *Minerva Anestesiologica*. <https://doi.org/10.23736/S0375-9393.19.13648-6>
- Meagher, A. D., Lin, A., Mandell, S. P., Bulger, E., & Newgard, C. (2019). A Comparison of Scoring Systems for Predicting Short- and Long-term Survival After Trauma in Older Adults. *Academic Emergency Medicine*, acem.13727. <https://doi.org/10.1111/acem.13727>
- Miyamoto, K., Shibata, N., Ogawa, A., Nakashima, T., & Kato, S. (2019). Prehospital quick sequential organ failure assessment score to predict in-hospital mortality among patients with trauma. *The American Journal of Emergency Medicine*. <https://doi.org/10.1016/j.ajem.2019.03.007>
- Okada, Y., Matsuyama, T., Morita, S., Ehara, N., Miyamae, N., Jo, T., ... Iiduka, R. (2019). Prognostic factors for patients with accidental hypothermia: A multi-institutional retrospective cohort study. *The American Journal of Emergency Medicine*, 37(4), 565–570. <https://doi.org/10.1016/j.ajem.2018.06.025>
- Sairanen, J. J., Kantanen, A.-M., Hyppölä, H. T., & Kälviäinen, R. K. (2019). Treatment delay in status epilepticus – more effective prehospital symptom recognition warranted. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 28. <https://doi.org/10.1186/s13049-019-0605-7> **Open Access**
- Xu, Y., Parikh, N. S., Jiao, B., Willey, J. Z., Boehme, A. K., & Elkind, M. S. V. (2019). Decision Analysis Model for Prehospital Triage of Patients With Acute Stroke. *Stroke*, 50(4), 970–977. <https://doi.org/10.1161/STROKEAHA.118.023272>
- Yeung, T., Shannon, B., Perillo, S., Nehme, Z., Jennings, P., & Olausson, A. (2019). Review article: Outcomes of patients who are not transported following ambulance attendance: A systematic review and meta-analysis. *Emergency Medicine Australasia*, 1742–6723.13288. <https://doi.org/10.1111/1742-6723.13288>
- Zègre-Hemsey, J. K., Asafu-Adjei, J., Fernandez, A., & Brice, J. (2019). Characteristics of Prehospital Electrocardiogram Use in North Carolina Using a Novel Linkage of Emergency Medical Services and Emergency Department Data. *Prehospital Emergency Care*, 1–14. <https://doi.org/10.1080/10903127.2019.1597230>

Zhelev, Z., Walker, G., Henschke, N., Fridhandler, J., & Yip, S. (2019). Prehospital stroke scales as screening tools for early identification of stroke and transient ischemic attack. *Cochrane Database of Systematic Reviews*, 4, CD011427. <https://doi.org/10.1002/14651858.CD011427.pub2> **Open Access**

Zwisler, S. T., Zincuk, Y., Bering, C. B., Zincuk, A., Nybo, M., & Mikkelsen, S. (2019). Diagnostic value of prehospital arterial blood gas measurements – a randomised controlled trial. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 32. <https://doi.org/10.1186/s13049-019-0612-8> **Open Access**

Patient Profile

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Ferguson, N., Savic, M., McCann, T. V., Emond, K., Sandral, E., Smith, K., ... Lubman, D. I. (2019). “I was worried if I don’t have a broken leg they might not take it seriously”: Experiences of men accessing ambulance services for mental health and/or alcohol and other drug problems. *Health Expectations*, hex.12886. <https://doi.org/10.1111/hex.12886> **Open Access**

O’Connor, L., Kue, R. C., & O’Connor, M. J. (2019). Characteristics of Patients with Recurrent Emergency Medical Services Utilization for Symptomatic Hypoglycemia in an Urban Setting. *Prehospital Emergency Care*, 1–8. <https://doi.org/10.1080/10903127.2019.1587125>

Tsze, D. S., Hirschfeld, G., von Baeyer, C. L., Suarez, L. E., & Dayan, P. S. (2019). Changes in Pain Score Associated With Clinically Meaningful Outcomes in Children With Acute Pain. *Academic Emergency Medicine*. <https://doi.org/10.1111/acem.13683>

On-Scene Interventions

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Alexander, A. B., Masters, M. M., & Warren, K. (2019). Caring for Infectious Disease in the Prehospital Setting: A Qualitative Analysis of EMS Providers Experiences and Suggestions for Improvement. *Prehospital Emergency Care*, 1–25. <https://doi.org/10.1080/10903127.2019.1601313>

Andolfatto, G., Innes, K., Dick, W., Jenneson, S., Willman, E., Stenstrom, R., ... Benoit, G. (2019). Prehospital Analgesia With Intranasal Ketamine (PAIN-K): A Randomized Double-Blind Trial in Adults. *Annals of Emergency Medicine*. <https://doi.org/10.1016/J.ANNEMERGMED.2019.01.048> **Open Access**

Bossers, S. M., Boer, C., Greuters, S., Bloemers, F. W., Den Hartog, D., Van Lieshout, E. M. M., ... collaborators, on behalf of the B.-P. (2019). Dutch Prospective Observational Study on Prehospital Treatment of Severe Traumatic Brain Injury: The BRAIN-PROTECT Study Protocol. *Prehospital Emergency Care*, 1–8. <https://doi.org/10.1080/10903127.2019.1587126>

Cudini, D., Smith, K., Bernard, S., Stephenson, M., Andrew, E., Cameron, P., ... Tippett, A. (2019). Can pre-hospital administration reduce time to initial antibiotic therapy in septic patients? *Emergency Medicine Australasia*, 1742–6723.13282. <https://doi.org/10.1111/1742-6723.13282>

Downes, M. A., Sadler, C. W., Vidler, S., & Lovett, C. J. (2019). Difficult to sedate case of acute behavioural disturbance secondary to baclofen withdrawal. *Emergency Medicine Australasia*, 1742–6723.13289. <https://doi.org/10.1111/1742-6723.13289>

- Driver, B. E., Klein, L. R., Prekker, M. E., Cole, J. B., Satpathy, R., Kartha, G., ... Reardon, R. F. (2019). Drug Order in Rapid Sequence Intubation. *Academic Emergency Medicine*, acem.13723. <https://doi.org/10.1111/acem.13723>
- Eriksson, M., Larsson, A., Lipcsey, M., & Strandberg, G. (2019). The effect of hemorrhagic shock and intraosseous adrenaline injection on the delivery of a subsequently administered drug - an experimental study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 29. <https://doi.org/10.1186/s13049-018-0569-z> **Open Access**
- Espinosa, A., Dybvik, B., Medby, C., & Vangberg, G. (2019). Implementation of a protocol for prehospital transfusion of low-titer, leukocyte-depleted whole blood for civilian bleeding patients. *Transfusion and Apheresis Science*. <https://doi.org/10.1016/j.transci.2019.03.012>
- Goolsby, C., Rojas, L., Moore, K., Kretz, E., Singletary, E., Klimczak, V., & Charlton, N. (2019). Layperson Ability and Willingness to Use Hemostatic Dressings: A Randomized, Controlled Trial. *Prehospital Emergency Care*, 1–7. <https://doi.org/10.1080/10903127.2019.1593566>
- Guyette, F. X., Martin-Gill, C., Galli, G., McQuaid, N., & Elmer, J. (2019). Bolus Dose Epinephrine Improves Blood Pressure but is Associated with Increased Mortality in Critical Care Transport. *Prehospital Emergency Care*, 1–8. <https://doi.org/10.1080/10903127.2019.1593564>
- Hensel, M., Strunden, M. S., Tank, S., Gagelmann, N., Wirtz, S., & Kerner, T. (2019). Prehospital non-invasive ventilation in acute respiratory failure is justified even if the distance to hospital is short. *The American Journal of Emergency Medicine*, 37(4), 651–656. <https://doi.org/10.1016/j.ajem.2018.07.001>
- Kalantari, A., & Rezaie, S. (2019). Challenging the One-hour Sepsis Bundle. *Western Journal of Emergency Medicine*, 20(2), 185–190. <https://doi.org/10.5811/westjem.2018.11.39290> **Open Access**
- Kim, C., Choi, H. J., Moon, H., Kim, G., Lee, C., Cho, J. S., ... Jeong, W. (2019). Prehospital advanced cardiac life support by EMT with a smartphone-based direct medical control for nursing home cardiac arrest. *The American Journal of Emergency Medicine*, 37(4), 585–589. <https://doi.org/10.1016/j.ajem.2018.06.031>
- Lawthaweesawat, C., Harris, R., Isara, W., & Pongpirul, K. (2019). Prehospital Care of the 13 Hypothermic, Anesthetized Patients in the Thailand Cave Rescue. *New England Journal of Medicine*, 380(14), 1372–1373. <https://doi.org/10.1056/NEJMc1900831>
- Lebin, J. A., Akhavan, A. R., Hippe, D. S., Gittinger, M. H., Pasic, J., McCoy, A. M., & Vrablik, M. C. (2019). Psychiatric Outcomes of Patients With Severe Agitation Following Administration of Prehospital Ketamine. *Academic Emergency Medicine*, acem.13725. <https://doi.org/10.1111/acem.13725>
- Lewis, R. H., Sharpe, J. P., Berning, B., Fabian, T. C., Croce, M. A., & Magnotti, L. J. (2019). Impact of a simplified management algorithm on outcome following exsanguinating pelvic fractures. *Journal of Trauma and Acute Care Surgery*, 86(4), 658–663. <https://doi.org/10.1097/TA.0000000000002162>
- Lyng, J. W., White, C. C., Peterson, T. Q., Lako-Adamson, H., Goodloe, J. M., Dailey, M. W., ... Brown, L. H. (2019). Non-auto-injector epinephrine administration by basic life support providers: A literature review and consensus process. *Prehospital Emergency Care*, 1–11. <https://doi.org/10.1080/10903127.2019.1595235>
- Miller, J. B., Heitsch, L., Madsen, T. E., Oostema, J., Reeves, M., Zammit, C. G., ... Schrock, J. W. (2019). The Extended Treatment Window's Impact on Emergency Systems of Care for Acute Stroke. *Academic Emergency Medicine*. <https://doi.org/10.1111/acem.13698> #
- Nawrocki, P. S., Poremba, M., & Lawner, B. J. (2019). Push Dose Epinephrine Use in the Management of Hypotension During Critical Care Transport. *Prehospital Emergency Care*, 1–8. <https://doi.org/10.1080/10903127.2019.1588443>

Park, J. H., Kim, Y. J., Ro, Y. S., Kim, S., Cha, W. C., & Shin, S. Do. (2019). The Effect of Transport Time Interval on Neurological Recovery after Out-of-Hospital Cardiac Arrest in Patients without a Prehospital Return of Spontaneous Circulation. *Journal of Korean Medical Science*, 34(9), e73. <https://doi.org/10.3346/jkms.2019.34.e73> **Open Access**

Rijnhout, T. W. H., Wever, K. E., Marinus, R. H. A. R., Hoogerwerf, N., Geeraedts, L. M. ., & Tan, E. C. T. H. (2019). Is prehospital blood transfusion effective and safe in haemorrhagic trauma patients? A systematic review and meta-analysis. *Injury*. <https://doi.org/10.1016/j.injury.2019.03.033>

Rupprecht, H., & Gaab, K. (2019). Prehospital tracheotomy in a case of avulsion of the larynx with a comminuted fracture of the jawbone. *Clinical and Experimental Emergency Medicine*. <https://doi.org/10.15441/ceem.18.016> **Open Access**

Sanghvi, S., Podlog, M., & Aycok, R. D. (2019). Does the Severe Sepsis and Septic Shock Early Management Bundle (SEP-1) Improve Survival in Septic Adults? *Annals of Emergency Medicine*, 73(4), 363–365. <https://doi.org/10.1016/j.annemergmed.2018.09.009> **Open Access**

Simonsen, C., Magnusdottir, S. O., Andreasen, J. J., Bleg, R. C., Lie, C., & Kjærgaard, B. (2019). Long-Distance Transportation of Carbon Monoxide–Poisoned Patients on Extracorporeal Membrane Oxygenation Seems Possible: A Porcine Feasibility Study. *Air Medical Journal*. <https://doi.org/10.1016/J.AMJ.2019.03.009>

Spahn, D. R., Bouillon, B., Cerny, V., Duranteau, J., Filipescu, D., Hunt, B. J., ... Rossaint, R. (2019). The European guideline on management of major bleeding and coagulopathy following trauma: fifth edition. *Critical Care*, 23(1), 98. <https://doi.org/10.1186/s13054-019-2347-3> **Open Access**

Talan, D. A., & Yealy, D. M. (2019). Challenging the One-Hour Bundle Goal for Sepsis Antibiotics. *Annals of Emergency Medicine*, 73(4), 359–362. <https://doi.org/10.1016/j.annemergmed.2019.01.030>

Thézar, F., McDonald, N., Kriellaars, D., Giesbrecht, G., Weldon, E., & Pryce, R. T. (2019). Effects of Spinal Immobilization and Spinal Motion Restriction on Head-Neck Kinematics during Ambulance Transport. *Prehospital Emergency Care*, 1–9. <https://doi.org/10.1080/10903127.2019.1584833>

Verma, R., Matich, P., Symmons, D., & Vangaveti, V. (2019). Review article: Antiemetics in the pre-hospital setting: A systematic review of efficacy and safety. *Emergency Medicine Australasia*, 31(2), 174–182. <https://doi.org/10.1111/1742-6723.13136>

Ward, C. E., Badolato, G. M., Breslin, K., Brown, K., & Simpson, J. N. (2019). Evaluation of a Selective Prehospital Pediatric Spinal Protection Protocol. *Prehospital Emergency Care*, 1–8. <https://doi.org/10.1080/10903127.2019.1585502>

Weale, R., Madsen, A., Kong, V., & Clarke, D. (2019). The management of penetrating neck injury. *Trauma*, 21(2), 85–93. <https://doi.org/10.1177/1460408618767703>

Williams, K., Lang, E. S., Panchal, A., Gasper, J. J., Taillac, P., Gouda, J., & Hedges, M. (2019). Evidence-Based Guidelines for EMS Administration of Naloxone. *Prehospital Emergency Care*, 1–41. <https://doi.org/10.1080/10903127.2019.1597955>

Zietlow, J., Berns, K., Jenkins, D., & Zietlow, S. (2019). Prehospital Use of Ketamine: Effectiveness in Critically Ill and Injured Patients. *Military Medicine*, 184(Supplement_1), 542–544. <https://doi.org/10.1093/milmed/usy422>

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- Andersen, L. W., Holmberg, M. J., Granfeldt, A., James, L. P., & Caulley, L. (2019). Cost-effectiveness of public automated external defibrillators. *Resuscitation*, 138, 250–258. <https://doi.org/10.1016/j.resuscitation.2019.03.029>
- Balian, S., Buckler, D. G., Blewer, A. L., Bhardwaj, A., Abella, B. S., & CARES Surveillance Group. (2019). Variability in survival and post-cardiac arrest care following successful resuscitation from out-of-hospital cardiac arrest. *Resuscitation*, 137, 78–86. <https://doi.org/10.1016/j.resuscitation.2019.02.004>
- Beck, L. R., Ostermayer, D. G., Ponce, J. N., Srinivasan, S., & Wang, H. E. (2019). Effectiveness of Prehospital Dual Sequential Defibrillation for Refractory Ventricular Fibrillation and Ventricular Tachycardia Cardiac Arrest. *Prehospital Emergency Care*, 1–6. <https://doi.org/10.1080/10903127.2019.1584256>
- Benoit, J. L., McMullan, J. T., Wang, H. E., Xie, C., Xu, P., Hart, K. W., ... Lindsell, C. J. (2019). Timing of Advanced Airway Placement after Witnessed Out-of-Hospital Cardiac Arrest. *Prehospital Emergency Care*, 1–20. <https://doi.org/10.1080/10903127.2019.1595236>
- Chia, M. Y. C., Kwa, T. P. W., Wah, W., Yap, S., Doctor, N. E., Ng, Y. Y., ... Ong, M. E. H. (2019). Comparison of Outcomes and Characteristics of Emergency Medical Services (EMS)-Witnessed, Bystander-Witnessed, and Unwitnessed Out-of-Hospital Cardiac Arrests in Singapore. *Prehospital Emergency Care*, 1–8. <https://doi.org/10.1080/10903127.2019.1587124>
- Cmorej, P., Smrzova, E., Peran, D., & Bulikova, T. (2019). CPR induced inappropriate shocks from a subcutaneous implantable cardioverter defibrillator during out-of-hospital cardiac arrest. *Prehospital Emergency Care*, 1–5. <https://doi.org/10.1080/10903127.2019.1599475>
- Engel, T. W., Thomas, C., Medado, P., Bastani, A., Reed, B., Millis, S., & O'Neil, B. (2019). End Tidal CO₂ and Cerebral Oximetry for the Prediction of Return of Spontaneous Circulation During Cardiopulmonary Resuscitation. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.04.006>
- Frei, C., Darocha, T., Debaty, G., Dami, F., Blancher, M., Carron, P. N., ... Pasquier, M. (2019). Clinical characteristics and outcomes of witnessed hypothermic cardiac arrest: A systematic review on rescue collapse. *Resuscitation*, 137, 41–48. <https://doi.org/10.1016/j.resuscitation.2019.02.001>
- Glasheen, J., Wall, B., & Keogh, S. (2019). A BRILL idea? The benefits, risks, insights, learning and limitations of an emergency airway registry in pre-hospital and retrieval medicine. *Emergency Medicine Australasia*, 1742–6723.13283. <https://doi.org/10.1111/1742-6723.13283>
- Henry, B., Verbeek, P. R., & Cheskes, S. (2019). Extracorporeal cardiopulmonary resuscitation in out-of-hospital cardiac arrest: Ethical considerations. *Resuscitation*, 137, 1–6. <https://doi.org/10.1016/j.resuscitation.2019.01.036>
- Holmberg, M. J., Issa, M. S., Moskowitz, A., Morley, P., Welsford, M., Neumar, R., ... Wang, T.-L. (2019). Vasopressors During Adult Cardiac Arrest: A Systematic Review and Meta-Analysis. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.04.008>
- Lin, Y.-R., Wu, M.-H., Chen, T.-Y., Syue, Y.-J., Yang, M.-C., Lee, T.-H., ... Li, C.-J. (2019). Time to epinephrine treatment is associated with the risk of mortality in children who achieve sustained ROSC after traumatic out-of-hospital cardiac arrest. *Critical Care*, 23(1), 101. <https://doi.org/10.1186/s13054-019-2391-z> **Open Access**
- Lundsgaard, R. S., & Lundsgaard, K. S. (2019). BET 2: Pain management in patients who show awareness during CPR. *Emergency Medicine Journal : EMJ*, 36(4), 249–250. <https://doi.org/10.1136/emered-2019-208599.2> **NHS Open Athens**

- Malinverni, S., Bartiaux, M., Cavallotto, F., De Longueville, D., Mols, P., Gorlicki, J., & Adnet, F. (2019). Does endotracheal intubation increase chest compression fraction in out of hospital cardiac arrest: A substudy of the CAAM trial. *Resuscitation*, 137, 35–40. <https://doi.org/10.1016/j.resuscitation.2019.01.032>
- Mapp, J. G., Hans, A. J., Darrington, A. M., Ross, E. M., Ho, C. C., Miramontes, D. A., ... Wampler, D. A. (2018). Prehospital Double Sequential Defibrillation: A Matched Case-Control Study. *Academic Emergency Medicine*, acem.13672. <https://doi.org/10.1111/acem.13672>
- Milling, L., Astrup, B. S., & Mikkelsen, S. (2019). Prehospital cardiopulmonary resuscitation with manual or mechanical chest compression: A study of compression-induced injuries. *Acta Anaesthesiologica Scandinavica*, aas.13347. <https://doi.org/10.1111/aas.13347>
- Nguyen, L., Suarez, S., Daniels, J., Sanchez, C., Landry, K., & Redfield, C. (2019). Effect of Intravenous Versus Intraosseous Access in Prehospital Cardiac Arrest. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2019.02.005>
- Park, J. H., Kim, Y. J., Ro, Y. S., Kim, S., Cha, W. C., & Shin, S. Do. (2019). The Effect of Transport Time Interval on Neurological Recovery after Out-of-Hospital Cardiac Arrest in Patients without a Prehospital Return of Spontaneous Circulation. *Journal of Korean Medical Science*, 34(9), e73. <https://doi.org/10.3346/jkms.2019.34.e73> Open Access
- Plata, C., Stolz, M., Warnecke, T., Steinhauser, S., Hinkelbein, J., Wetsch, W. A., ... Spelten, O. (2019). Using a smartphone application (PocketCPR) to determine CPR quality in a bystander CPR scenario - A manikin trial. *Resuscitation*, 137, 87–93. <https://doi.org/10.1016/j.resuscitation.2019.01.039> Open Access
- Pollack, R. A., Brown, S. P., May, S., Rea, T., Kudenchuk, P. J., & Weisfeldt, M. L. (2019). Bystander automated external defibrillator application in non-shockable out-of-hospital cardiac arrest. *Resuscitation*, 137, 168–174. <https://doi.org/10.1016/j.resuscitation.2019.02.007>
- Pourmand, A., Hill, B., Yamane, D., & Kuhl, E. (2019). Approach to cardiopulmonary resuscitation induced consciousness, an emergency medicine perspective. *The American Journal of Emergency Medicine*, 37(4), 751–756. <https://doi.org/10.1016/j.ajem.2019.01.051>
- Remilton, L. E., Hesselheldt, R., & Mazur, S. M. (2019). Cardiac transvenous pacing in the retrieval setting: A retrospective case series. *Emergency Medicine Australasia*, 1742–6723.13260. <https://doi.org/10.1111/1742-6723.13260>
- Rottenberg, E. M. (2019). A simple method of performing maximally effective CPR chest compressions. *Resuscitation*, 138, 213–214. <https://doi.org/10.1016/j.resuscitation.2019.03.024>
- Sasson, C., & Haukoos, J. (2019). Improving CPR in communities: Understanding the importance of CPR training density. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.03.008>
- Ter Avest, E., McWhirter, E., Dunn, S., Griggs, J. E., & Lyon, R. M. (2019). Prehospital Death After Traumatic Cardiac Arrest: Time for Better Feedback? *Air Medical Journal*, 38(2), 78–81. <https://doi.org/10.1016/j.amj.2018.11.010>
- Żurowska-Wolak, M., Piekos, P., Jąkała, J., & Mikos, M. (2019). The effects of prehospital system delays on the treatment efficacy of STEMI patients. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 39. <https://doi.org/10.1186/s13049-019-0616-4> Open Access

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