



Welcome to **February 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 February Issue

Are you attending the 999EMS Forum "Advancing patient care: taking research to the Front Line". LKS ASE will be there and we would love to meet you. More information & registration details here [<https://www.eventbrite.co.uk/e/999ems-research-forum-2019-advancing-patient-care-taking-research-to-the-front-line-tickets-51765722670>]



Different ways to access the update

If you are reading this then you are already using the pdf/Word version of the Update. There are alternative social media routes you could try.

Twitter

Follow [@LksAse](#) or go to. This account Tweets the latest relevant research for Paramedic Practice as it's published from scholarly/academic journals.

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;

To view this item, select one of the options below:

Login via Athens or your home organisation

To create your own Athens username and password, simply visit:

<https://openathens.nice.org.uk/>

- Where papers are not available either through **Open Access** or with your **NHS Open Athens** you may be able to get access through your own Library Service or from the [LKS ASE Request an article service](#) , or University Library, if you are registered on a course.

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](#)

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 Practitioners – Professional Development

Request
an article



To see the full text use the [LKS ASE Request an Article Service](#) or check with your library. For Open Access articles click through. For articles marked NHS Open Athens click through and sign in with your Open Athens account.

Adelgais, K. M., Sholl, J. M., Alter, R., Gurley, K. L., Broadwater-Hollifield, C., & Taillac, P. (2019). Challenges in Statewide Implementation of a Prehospital Evidence-Based Guideline: An Assessment of Barriers and Enablers in Five States. *Prehospital Emergency Care*, 23(2), 167–178. <https://doi.org/10.1080/10903127.2018.1495284>

Agarwal, G., Pirrie, M., McLeod, B., Angeles, R., Tavares, W., Marzanek, F., & Thabane, L. (2019). Rationale and methods of an Evaluation of the Effectiveness of the Community Paramedicine at Home (CP@home) program for frequent users of emergency medical services in multiple Ontario regions: a study protocol for a randomized controlled trial. *Trials*, 20(1), 75. <https://doi.org/10.1186/s13063-018-3107-4> **Open Access**

Brice, J. H., Cyr, J. M., Hnat, A. T., Wei, T. L., Principe, S., Thead, S. E., ... Forrest, E. E. (2019). Assessment of Key Health and Wellness Indicators Among North Carolina Emergency Medical Service Providers. *Prehospital Emergency Care*, 23(2), 179–186. <https://doi.org/10.1080/10903127.2018.1489017>

Carter, A. J. E., Arab, M., Harrison, M., Goldstein, J., Stewart, B., Lecours, M., ... Pereira, J. (2019). Paramedics providing palliative care at home: A mixed-methods exploration of patient and family satisfaction and paramedic comfort and confidence. *CJEM*, 1–10. <https://doi.org/10.1017/cem.2018.497>

Champagne-Langabeer, T., Langabeer, J. R., Roberts, K. E., Gross, J. S., Gleisberg, G. R., Gonzalez, M. G., & Persse, D. (2019). Telehealth Impact on Primary Care Related Ambulance Transports. *Prehospital Emergency Care*, 1–6. <https://doi.org/10.1080/10903127.2019.1568650>

Du, B., Boileau, M., Wierst, K., Hignett, S., Fischer, S., & Yazdani, A. (2019). Existing Science on Human Factors and Ergonomics in the Design of Ambulances and EMS Equipment. *Prehospital Emergency Care*, 1–16. <https://doi.org/10.1080/10903127.2019.1568651>

Eburn, M., & Eburn, M. (2019). Registered paramedics, insurance and first aid – looking for coherence in law. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.663> **Open Access**

Freytag, J., Stroben, F., Hautz, W. E., Schaubert, S. K., & Kämmer, J. E. (2019). Rating the quality of teamwork—a comparison of novice and expert ratings using the Team Emergency Assessment Measure (TEAM) in simulated emergencies. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 12. <https://doi.org/10.1186/s13049-019-0591-9> **Open Access**

Greinacher, A., Derezza-Greeven, C., Herzog, W., & Nikendei, C. (2019). Secondary traumatization in first responders: a systematic review. *European Journal of Psychotraumatology*, 10(1), 1562840. <https://doi.org/10.1080/20008198.2018.1562840>

Hutchins, A., Te Momo, A., Tran, L., Thyer, L., Simpson, P., & Simpson, P. (2019). Agreement between student paramedics when measuring blood pressure. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.630> **Open Access**

Hwang, C. W., Fitzpatrick, D. E., Becker, T. K., & Jones, J. M. (2019). Paramedic determination of appropriate emergency department destination. *The American Journal of Emergency Medicine*, 37(3), 482–485. <https://doi.org/10.1016/j.ajem.2018.06.024>

Koski, A., & Sumanen, H. (2019). The risk factors Finnish paramedics recognize when performing emergency response driving. *Accident Analysis & Prevention*, 125, 40–48. <https://doi.org/10.1016/j.aap.2019.01.021>

- Llovera, I., Loscalzo, K., Gao, J., Li, T., Brave, M., Becker, L., & Barata, I. (2019). Increased access to urgent care centers decreases low acuity diagnoses in a nearby hospital emergency department. *The American Journal of Emergency Medicine*, 37(3), 486–488. <https://doi.org/10.1016/j.ajem.2018.11.023>
- Lord, B., Andrew, E., Henderson, A., Anderson, D. J., Smith, K., & Bernard, S. (2019). Palliative care in paramedic practice: A retrospective cohort study. *Palliative Medicine*, 026921631982827. <https://doi.org/10.1177/0269216319828278>
- Lucas, G., Gallagher, A., Zasada, M., Austin, Z., Jago, R., Banks, S., ... Gaag, A. van der. (2019). Understanding complaints about paramedics: a qualitative exploration in a UK context. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.616> **Open Access**
- March, J. A., Kiemeny, M. J., De Guzman, J., & Ferguson, J. D. (2019). Retention of cricothyrotomy skills by paramedics using a wire guided technique. *The American Journal of Emergency Medicine*, 37(3), 407–410. <https://doi.org/10.1016/j.ajem.2018.05.073>
- Martin, A., & O'Meara, P. (2019). Perspectives from the frontline of two North American community paramedicine programs: an observational, ethnographic study. *Rural and Remote Health*, 19(1), 4888. <https://doi.org/10.22605/RRH4888> **Open Access**
- Perona, M., Rahman, M. A., O'Meara, P., & O'Meara, P. (2019). Paramedic judgement, decision-making and cognitive processing: a review of the literature. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.586> **Open Access**
- Randhawa, S. M., Hay-Smith, J., Grainger, R., & Grainger, R. (2019). The experience of lower back pain and its treatment among ambulance officers in New Zealand: a qualitative study. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.617> **Open Access**
- Rasku, T., Kaunonen, M., Thyer, E., Paavilainen, E., & Joronen, K. (2019). The core components of Community Paramedicine - integrated care in primary care setting: a scoping review. *Scandinavian Journal of Caring Sciences*. <https://doi.org/10.1111/scs.12659>
- Riney, L. C., Brokamp, C., Beck, A. F., Pomerantz, W. J., Schwartz, H. P., & Florin, T. A. (2019). Emergency Medical Services Utilization Is Associated With Community Deprivation in Children. *Prehospital Emergency Care*, 23(2), 225–232. <https://doi.org/10.1080/10903127.2018.1501124>
- Schierholtz, T., Carter, D., Kane, A., Kemp, O., Gallant, C., Sheikh, B., ... Zecevic, A. (2019). Impact of Lift Assist Calls on Paramedic Services: A Descriptive Study. *Prehospital Emergency Care*, 23(2), 233–240. <https://doi.org/10.1080/10903127.2018.1483454>
- Valentin, G., & Jensen, L. G. (2019). What is the impact of physicians in prehospital treatment for patients in need of acute critical care? – An overview of reviews. *International Journal of Technology Assessment in Health Care*, 1–9. <https://doi.org/10.1017/S0266462318003616>
- Vikke, H. S., Vittinghus, S., Betzer, M., Giebner, M., Kolmos, H. J., Smith, K., ... Mogensen, C. B. (2019). “Hand hygiene perception and self-reported hand hygiene compliance among emergency medical service providers: a Danish survey.” *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 10. <https://doi.org/10.1186/s13049-019-0587-5> **Open Access**
- Vikke, H. S., Vittinghus, S., Giebner, M., Kolmos, H. J., Smith, K., Castrén, M., & Lindström, V. (2019). Compliance with hand hygiene in emergency medical services: an international observational study. *Emergency Medicine Journal : EMJ*, 36(3), 171–175. <https://doi.org/10.1136/emered-2018-207872> **NHS OpenAthens**
- Wadhwa, V., & Gaskell, P. (2019). Ensuring that ambulance services are used only for genuine emergencies. *BMJ*, 364, l239. <https://doi.org/10.1136/bmj.l239> **NHS OpenAthens**
- Prehospital Emergency Services Current Awareness Update – Issue 68, February 2019*

Wills, H. L., Asbury, E. A., & Asbury, E. A. (2019). The incidence of anxiety among paramedic students. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.649> **Open Access**

Yoshida, H., Rutman, L. E., Chen, J., Shaffer, M. L., Migita, R. T., Enriquez, B. K., ... Mazor, S. S. (2019). Waterfalls and Handoffs: A Novel Physician Staffing Model to Decrease Handoffs in a Pediatric Emergency Department. *Annals of Emergency Medicine*, 73(3), 248–254. <https://doi.org/10.1016/j.annemergmed.2018.08.424>

Prehospital Research – Methods and Discussion

Request
an article



To see the full text use the [LKS ASE Request an Article Service](#) or check with your library. For Open Access articles click through. For articles marked NHS Open Athens click through and sign in with your Open Athens account.

Hope, A. A., Munoz, M., Hsieh, S. J., & Gong, M. N. (2019). Surrogates' and Researchers' Assessments of Prehospital Frailty in Critically Ill Older Adults. *American Journal of Critical Care*, 28(2), 117–123. <https://doi.org/10.4037/ajcc2019285> **Open Access**

Johnston, K. C., & Durkalski-Mauldin, V. L. (2019). Considering prehospital stroke trials: did RIGHT-2 get it right? *The Lancet*. [https://doi.org/10.1016/S0140-6736\(19\)30276-4](https://doi.org/10.1016/S0140-6736(19)30276-4) **Open Access**

Maloney, L. M., & Mycyk, M. B. (2019). Honest Disclosure of Conflicts of Interest Advances Emergency Medicine Scholarship. *Academic Emergency Medicine*. <https://doi.org/10.1111/acem.13718>

Maurin Söderholm, H., Andersson, H., Andersson Hagiwara, M., Backlund, P., Bergman, J., Lundberg, L., & Sjöqvist, B. A. (2019). Research challenges in prehospital care: the need for a simulation-based prehospital research laboratory. *Advances in Simulation*, 4(1), 3. <https://doi.org/10.1186/s41077-019-0090-0> **Open Access**

Nawijn, F., Ham, W. H. W., Houwert, R. M., Groenwold, R. H. H., Hietbrink, F., & Smeeing, D. P. J. (2019). Quality of reporting of systematic reviews and meta-analyses in emergency medicine based on the PRISMA statement. *BMC Emergency Medicine*, 19(1), 19. <https://doi.org/10.1186/s12873-019-0233-6> **Open Access**

Robinson, M. J., Taylor, J., Brett, S. J., Nolan, J. P., Thomas, M., Reeves, B. C., ... Benger, J. R. (2019). Design and implementation of a large and complex trial in emergency medical services. *Trials*, 20(1), 108. <https://doi.org/10.1186/s13063-019-3203-0> **Open Access**

Helicopter Emergency Medical Services (HEMS) and Air Medical

Request
an article



To see the full text use the [LKS ASE Request an Article Service](#) or check with your library. For Open Access articles click through. For articles marked NHS Open Athens click through and sign in with your Open Athens account.

Bootland, D., Rose, C., Barrett, J. W., & Lyon, R. (2019). Pre-hospital anaesthesia and assessment of head injured patients presenting to a UK Helicopter Emergency Medical Service with a high Glasgow Coma Scale: a cohort study. *BMJ Open*, 9(2), e023307. <https://doi.org/10.1136/bmjopen-2018-023307> **Open Access**

Bushmaker, R., Corey, K., Dunn, J., Lalonde, T., & Estrada, S. (2019). Evaluation of a New Helicopter Crew Transport Fatigue Assessment. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2018.11.006>

Mason, R., Latimer, A., Vrablik, M., & Utarnachitt, R. (2019). Teaching Flight Nurses Ultrasonographic Evaluation of Esophageal Intubation and Pneumothorax. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2018.11.007>

Neagle, G., Curatolo, L., Ferris, J., Donald, M., Hearn, S., & Corfield, A. R. (2019). Epidemiology and location of primary retrieval missions in a Scottish aeromedical service. *European Journal of Emergency Medicine*, 26(2), 123–127. <https://doi.org/10.1097/MEJ.0000000000000483>

Prehospital Emergency Services Current Awareness Update – Issue 68, February 2019

- Oud, F. R. W., Kooij, F. O., & Burns, B. J. (2019). Long-term Effectiveness of the Airway Registry at Sydney Helicopter Emergency Medical Service. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2019.01.006>
- Patterson, P. D., Weaver, M. D., Markosyan, M. A., Moore, C. G., Guyette, F. X., Doman, J. M., ... Buysse, D. J. (2019). Impact of shift duration on alertness among air-medical emergency care clinician shift workers. *American Journal of Industrial Medicine*. <https://doi.org/10.1002/ajim.22956>
- Peters, J. H., Smulders, P. S. H., Moors, X. R. J., Bouman, S. J. M., Meijs, C. M. E. M., Hoogerwerf, N., & Edwards, M. J. R. (2019). Are on-scene blood transfusions by a helicopter emergency medical service useful and safe? A multicentre case–control study. *European Journal of Emergency Medicine*, 26(2), 128–132. <https://doi.org/10.1097/MEJ.0000000000000516>
- Pietsch, U., Strapazzon, G., Ambühl, D., Lischke, V., Rauch, S., & Knapp, J. (2019). Challenges of helicopter mountain rescue missions by human external cargo: need for physicians onsite and comprehensive training. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 17. <https://doi.org/10.1186/s13049-019-0598-2> **Open Access**
- Pulkkinen, I., Pirnes, J., Rissanen, A., & Laukkanen-Nevala, P. (2019). Impact of icing weather conditions on the patients in helicopter emergency medical service: a prospective study from Northern Finland. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 13. <https://doi.org/10.1186/s13049-019-0592-8> **Open Access**
- Ruskin, K. J. (2019). Helicopter air ambulance services. *Current Opinion in Anaesthesiology*, 32(2), 252–256. <https://doi.org/10.1097/ACO.0000000000000700>
- Safdar, B., Ona Ayala, K. E., Ali, S. S., Seifer, B. J., Hong, M., Greenberg, M. R., ... McGregor, A. J. (2019). Inclusion of Sex and Gender in Emergency Medicine Research—A 2018 Update. *Academic Emergency Medicine*, acem.13688. <https://doi.org/10.1111/acem.13688>
- Samet, D., & Luterman, S. (2019). See-Hear-Feel-Speak. *Pediatric Emergency Care*, 35(2), 157–159. <https://doi.org/10.1097/PEC.0000000000001734>
- Schober, P., Giannakopoulos, G., Loer, S. A., & Schwarte, L. A. (2019). Hemorrhage Treatment Adjuncts in a Helicopter Emergency Medical Service. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2019.01.002>
- Sørgjerd, R., Sunde, G. A., & Heltne, J.-K. (2019). Comparison of two different intraosseous access methods in a physician-staffed helicopter emergency medical service – a quality assurance study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 15. <https://doi.org/10.1186/s13049-019-0594-6> **Open Access**
- Ter Avest, E., Griggs, J., Prentice, C., Jeyanathan, J., & Lyon, R. M. (2019). Out-of-hospital cardiac arrest following trauma: What does a helicopter emergency medical service offer? *Resuscitation*, 135, 73–79. <https://doi.org/10.1016/j.resuscitation.2018.12.019>
- Wafaisade, A., Caspers, M., Bouillon, B., Helm, M., Ruppert, M., & Gäßler, M. (2019). Changes in anaesthetic use for trauma patients in German HEMS – a retrospective study over a ten-year period. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 23. <https://doi.org/10.1186/s13049-019-0603-9> **Open Access**
- Wallace, T. (2019). Transportation of Temperature-sensitive Medications in an Air Medical Setting. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2019.01.005>
- Zakariassen, E., Waage, S., Harris, A., Gatterbauer-Trischler, P., Lang, B., Voelckel, W., ... Bjorvatn, B. (2019). Causes and Management of Sleepiness Among Pilots in a Norwegian and an Austrian Air Ambulance Service—A Comparative Study. *Air Medical Journal*, 38(1), 25–29. <https://doi.org/10.1016/j.amj.2018.11.002> **Open Access**
Prehospital Emergency Services Current Awareness Update – Issue 68, February 2019

Diagnosis and Triage

Request
an article



To see the full text use the [LKS ASE Request an Article Service](#) or check with your library. For Open Access articles click through. For articles marked NHS Open Athens click through and sign in with your Open Athens account.

- Amoako, J., Evans, S., Brown, N. V., Khaliqdina, S., & Caterino, J. M. (2019). Identifying Predictors of Undertriage in Injured Older Adults After Implementation of Statewide Geriatric Trauma Triage Criteria. *Academic Emergency Medicine*. <https://doi.org/10.1111/acem.13695>
- Beltramini, A., Galinski, M., Chabernaude, J. L., Ruiz Almenar, R., Tsapis, M., Goddet, N. S., ... Fournier-Charrière, E. (2019). Pain Assessment in Children Younger Than 8 Years in Out-of-Hospital Emergency Medicine. *Pediatric Emergency Care*, 35(2), 125–131. <https://doi.org/10.1097/PEC.0000000000000953>
- Byrne, C., Toarta, C., & Holt, T. (2019). Prognosis versus Diagnosis and Test Accuracy versus Risk Estimation: Exploring the Clinical Application of the HEART Score. *Academic Emergency Medicine*. <https://doi.org/10.1111/acem.13717>
- Carpenter, C. R., Banerjee, J., Keyes, D., Eagles, D., Schnitker, L., Barbic, D., ... LaMantia, M. A. (2018). Accuracy of Dementia Screening Instruments in Emergency Medicine – A Diagnostic Meta-Analysis. *Academic Emergency Medicine*, 26(2), acem.13573. <https://doi.org/10.1111/acem.13573>
- Chen, K.-F., Tsai, M.-Y., Wu, C.-C., & Han, S.-T. (2019). Effectiveness of Treatments and Diagnostic Tools and Declining Mortality in Patients With Severe Sepsis: A 12-Year Population-Based Cohort Study. *Journal of Intensive Care Medicine*, 088506661982727. <https://doi.org/10.1177/0885066619827270>
- Clark, C. L., Gibson, T. A., Weiss, R. E., Yagapen, A. N., Malveau, S. E., Adler, D. H., ... Sun, B. C. (2019). Do High Sensitivity Troponin and Natriuretic Peptide Predict Death or Serious Cardiac Outcomes After Syncope? *Academic Emergency Medicine*, acem.13709. <https://doi.org/10.1111/acem.13709>
- De Boos, J. (2019). Review article: Non-fatal strangulation: Hidden injuries, hidden risks. *Emergency Medicine Australasia*. <https://doi.org/10.1111/1742-6723.13243>
- Dickson, R. L., Crowe, R. P., Patrick, C., Crocker, K., Aiken, M., Adams, A., ... Panchal, A. R. (2019). Performance of the RACE Score for the Prehospital Identification of Large Vessel Occlusion Stroke in a Suburban/Rural EMS Service. *Prehospital Emergency Care*, 1–7. <https://doi.org/10.1080/10903127.2019.1573281>
- Fernando, S. M., Tran, A., Cheng, W., Rochweg, B., Taljaard, M., Thiruganasambandamoorthy, V., ... Perry, J. J. (2019). Prognostic Accuracy of the HEART Score for Prediction of Major Adverse Cardiac Events in Patients Presenting With Chest Pain: A Systematic Review and Meta-analysis. *Academic Emergency Medicine*, 26(2), 140–151. <https://doi.org/10.1111/acem.13649>
- Galvagno, S. M., Massey, M., Bouzat, P., Vesselinov, R., Levy, M. J., Millin, M. G., ... Hirshon, J. M. (2019). Correlation Between the Revised Trauma Score and Injury Severity Score: Implications for Prehospital Trauma Triage. *Prehospital Emergency Care*, 23(2), 263–270. <https://doi.org/10.1080/10903127.2018.1489019>
- Haukoos, J. S., Campion, E. M., & Pons, P. T. (2019). Optimizing Prehospital Trauma Triage—A Step Closer? *JAMA Surgery*. <https://doi.org/10.1001/jamasurg.2018.4764>
- Jan-Otto, A., Salmir, N., Johan, H., Erik, H., & Christer, A. (2019). The intensity of pain in the prehospital setting is most strongly reflected in the respiratory rate among physiological parameters. *The American Journal of Emergency Medicine*. <https://doi.org/10.1016/j.ajem.2019.01.032>
- Latten, G. H. P., Claassen, L., Jonk, M., Cals, J. W. L., Muris, J. W. M., & Stassen, P. M. (2019). Characteristics of the prehospital phase of adult emergency department patients with an infection: A prospective pilot study. *PLOS ONE*, 14(2), e0212181. <https://doi.org/10.1371/journal.pone.0212181> **Open Access**
- Prehospital Emergency Services Current Awareness Update – Issue 68, February 2019*

- Lee, D. W., Moon, H. J., Heo, N. H., & KoCARC. (2019). Association between ambulance response time and neurologic outcome in patients with cardiac arrest. *The American Journal of Emergency Medicine*. <https://doi.org/10.1016/j.ajem.2019.02.021>
- Lim, B. L., Cheah, S. O., Goh, H. K., Lee, F. C. Y., Ng, Y. Y., Guo, W. J., & Ong, M. E. H. (2019). Most Impactful Predictors for Hyperoxaemia in Exacerbation of Chronic Obstructive Pulmonary Disease Managed by Emergency Medical Services And Emergency Department. *The Clinical Respiratory Journal*. <https://doi.org/10.1111/crj.13007>
- Minasyan, H. (2019). Sepsis: mechanisms of bacterial injury to the patient. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 19. <https://doi.org/10.1186/s13049-019-0596-4> **Open Access**
- Phillips, G. A. (2019). How 'Improved triage and emergency care for children reduces inpatient mortality in a resource-constrained setting' changed my life. *Emergency Medicine Australasia*. <https://doi.org/10.1111/1742-6723.13263>
- Pickham, D., Valdez, A., Demeestere, J., Lemmens, R., Diaz, L., Hopper, S., ... Lansberg, M. G. (2019). Prognostic Value of BEFAST vs. FAST to Identify Stroke in a Prehospital Setting. *Prehospital Emergency Care*, 23(2), 195–200. <https://doi.org/10.1080/10903127.2018.1490837>
- Price, C. I., Shaw, L., Dodd, P., Exley, C., Flynn, D., Francis, R., ... Ford, G. A. (2019). Paramedic Acute Stroke Treatment Assessment (PASTA): study protocol for a randomised controlled trial. *Trials*, 20(1), 121. <https://doi.org/10.1186/s13063-018-3144-z> **Open Access**
- Schroeder, P. H., Napoli, N. J., Barnhardt, W. F., Barnes, L. E., & Young, J. S. (2019). Relative Mortality Analysis Of The "Golden Hour": A Comprehensive Acuity Stratification Approach To Address Disagreement In Current Literature. *Prehospital Emergency Care*, 23(2), 254–262. <https://doi.org/10.1080/10903127.2018.1489021>
- Shih, H.-M., Chen, Y.-C., Chen, C.-Y., Huang, F.-W., Chang, S.-S., Yu, S.-H., ... Chen, W.-K. (2019). Derivation and Validation of the SWAP Score for Very Early Prediction of Neurologic Outcome in Patients With Out-of-Hospital Cardiac Arrest. *Annals of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.annemergmed.2019.01.017>
- Simpson, S. Q. (2019). Surveillance for Adult Sepsis Events. *Critical Care Medicine*, 47(3), 467–468. <https://doi.org/10.1097/CCM.0000000000003561>
- van Rein, E. A. J., van der Sluijs, R., Voskens, F. J., Lansink, K. W. W., Houwert, R. M., Lichtveld, R. A., ... van Heijl, M. (2019). Development and Validation of a Prediction Model for Prehospital Triage of Trauma Patients. *JAMA Surgery*. <https://doi.org/10.1001/jamasurg.2018.4752>
- Wang, I.-J., Bae, B.-K., Park, S.-W., Cho, Y.-M., Lee, D.-S., Min, M.-K., ... Jang, J.-H. (2019). Pre-hospital modified shock index for prediction of massive transfusion and mortality in trauma patients. *The American Journal of Emergency Medicine*. <https://doi.org/10.1016/j.ajem.2019.01.056>
- 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*, 1–12. <https://doi.org/10.1080/10903127.2019.1585502>
- Waseem, M., Chen, J., Leber, M., Giambrone, A. E., & Gerber, L. M. (2019). A Reexamination of the Accuracy of the Broselow Tape as an Instrument for Weight Estimation. *Pediatric Emergency Care*, 35(2), 112–116. <https://doi.org/10.1097/PEC.0000000000000982>

Patient Profile

Request
an article



To see the full text use the [LKS ASE Request an Article Service](#) or check with your library. For Open Access articles click through. For articles marked NHS Open Athens click through and sign in with your Open Athens account.

Amato, S., Nobay, F., Amato, D. P., Abar, B., & Adler, D. (2019). Sick and unsheltered: Homelessness as a major risk factor for emergency care utilization. *The American Journal of Emergency Medicine*, 37(3), 415–420. <https://doi.org/10.1016/j.ajem.2018.06.001>

Bhangu, J., Hall, P., Devaney, N., Bennett, K., Carroll, L., Kenny, R.-A., & McMahon, C. G. (2019). The prevalence of unexplained falls and syncope in older adults presenting to an Irish urban emergency department. *European Journal of Emergency Medicine*, 26(2), 100–104. <https://doi.org/10.1097/MEJ.0000000000000548>

Brown, E., Tohira, H., Bailey, P., Fatovich, D., Pereira, G., & Finn, J. (2019). Older age is associated with a reduced likelihood of ambulance transport to a trauma centre after major trauma in Perth. *Emergency Medicine Australasia*. <https://doi.org/10.1111/1742-6723.13244>

Crossin, R., Scott, D., Arunogiri, S., Smith, K., Dietze, P. M., & Lubman, D. I. (2019). Pregabalin misuse-related ambulance attendances in Victoria, 2012–2017: characteristics of patients and attendances. *Medical Journal of Australia*, 210(2), 75–79. <https://doi.org/10.5694/mja2.12036>

Fishe, J. N., & Lynch, S. (2019). Pediatric Behavioral Health-Related EMS Encounters: A Statewide Analysis. *Prehospital Emergency Care*, 1–9. <https://doi.org/10.1080/10903127.2019.1566423>

On-Scene Interventions

Request
an article



To see the full text use the [LKS ASE Request an Article Service](#) or check with your library. For Open Access articles click through. For articles marked NHS Open Athens click through and sign in with your Open Athens account.

Bakhsh, A., & Ritchie, M. (2018). Video Laryngoscopy vs. Direct Laryngoscopy. *Academic Emergency Medicine*, 26(2), acem.13627. <https://doi.org/10.1111/acem.13627>

Bath, P. M., Scutt, P., Anderson, C. S., Appleton, J. P., Berge, E., Cala, L., ... Mir, R. (2019). Prehospital transdermal glyceryl trinitrate in patients with ultra-acute presumed stroke (RIGHT-2): an ambulance-based, randomised, sham-controlled, blinded, phase 3 trial. *The Lancet*. [https://doi.org/10.1016/S0140-6736\(19\)30194-1](https://doi.org/10.1016/S0140-6736(19)30194-1) Open Access

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*, 1–8. <https://doi.org/10.1080/10903127.2019.1584256>

Byrne, J. P., Mann, N. C., Dai, M., Mason, S. A., Karanicolas, P., Rizoli, S., & Nathens, A. B. (2019). Association Between Emergency Medical Service Response Time and Motor Vehicle Crash Mortality in the United States. *JAMA Surgery*. <https://doi.org/10.1001/jamasurg.2018.5097>

Coccolini, F., Pizzilli, G., Corbella, D., Sartelli, M., Agnoletti, V., Agostini, V., ... Catena, F. (2019). Pre-hospital plasma in haemorrhagic shock management: current opinion and meta-analysis of randomized trials. *World Journal of Emergency Surgery*, 14(1), 6. <https://doi.org/10.1186/s13017-019-0226-5>

Evans, B. A., Brown, A., Bulger, J., Fegan, G., Ford, S., Guy, K., ... Snooks, H. (2019). Paramedics' experiences of administering fascia iliaca compartment block to patients in South Wales with suspected hip fracture at the scene of injury: results of focus groups. *BMJ Open*, 9(2), e026073. <https://doi.org/10.1136/bmjopen-2018-026073> Open Access

Fagerlind, H., Harvey, L., Candefjord, S., Davidsson, J., & Brown, J. (2019). Does injury pattern among major road trauma patients influence prehospital transport decisions regardless of the distance to the nearest trauma centre? – a retrospective study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 18. <https://doi.org/10.1186/s13049-019-0593-7> Open Access

- Friesgaard, K. D., Kirkegaard, H., Rasmussen, C.-H., Giebner, M., Christensen, E. F., & Nikolajsen, L. (2019). Prehospital intravenous fentanyl administered by ambulance personnel: a cluster-randomised comparison of two treatment protocols. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 11. <https://doi.org/10.1186/s13049-019-0588-4> **Open Access**
- Gasparly, M. J., Zarow, G. J., Barry, M. J., Walchak, A. C., Conley, S. P., & Roszko, P. J. D. (2019). Comparison of Three Junctional Tourniquets Using a Randomized Trial Design. *Prehospital Emergency Care*, 23(2), 187–194. <https://doi.org/10.1080/10903127.2018.1484968>
- Guo, Y., & Li, R. (2019). The effect of pre-hospital intubation on prognosis in infants, children and adolescents with severe traumatic brain injury. *Medicine*, 98(8), e14690. <https://doi.org/10.1097/MD.00000000000014690>
- Halpern, P., Dang, T., Epstein, Y., Van Stijn–Bringas Dimitriades, D., & Koenig, K. L. (2019). Six Hours of Manual Ventilation With a Bag-Valve-Mask Device Is Feasible and Clinically Consistent. *Critical Care Medicine*, 47(3), e222–e226. <https://doi.org/10.1097/CCM.0000000000003632>
- Jouffroy, R., & Vivien, B. (2019). Prehospital Emergency Care in Sepsis: From the “Door-to-Antibiotic” to the “Antibiotic-at-Door” Concept? *Annals of the American Thoracic Society*, *AnnalsATS*.201901-057LE. <https://doi.org/10.1513/AnnalsATS.201901-057LE> **Open Access**
- Lendrum, R., Perkins, Z., Chana, M., Marsden, M., Davenport, R., Grier, G., ... Davies, G. (2019). Pre-hospital Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) for exsanguinating pelvic haemorrhage. *Resuscitation*, 135, 6–13. <https://doi.org/10.1016/j.resuscitation.2018.12.018>
- Lesperance, R. N., Carroll, C. M., Aden, J. K., Young, J. B., & Nunez, T. C. (2018). Failure Rate of Prehospital Needle Decompression for Tension Pneumothorax in Trauma Patients. *The American Surgeon*, 84(11), 1750–1755. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/30747628>
- McNickle, A. G., Fraser, D. R., Chestovich, P. J., Kuhls, D. A., & Fildes, J. J. (2019). Effect of prehospital tourniquets on resuscitation in extremity arterial trauma. *Trauma Surgery & Acute Care Open*, 4(1), e000267. <https://doi.org/10.1136/tsaco-2018-000267>
- Murphy, D. L., Rea, T. D., McCoy, A. M., Sayre, M. R., Fahrenbruch, C. E., Yin, L., ... Mitchell, S. H. (2019). Inclined position is associated with improved first pass success and laryngoscopic view in prehospital endotracheal intubations. *The American Journal of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.ajem.2019.02.038>
- Navarro-Patón, R., Freire-Tellado, M., Fernández-González, N., Basanta-Camiño, S., Mateos-Lorenzo, J., & Lago-Ballesteros, J. (2019). What is the best position to place and re-evaluate an unconscious but normally breathing victim? A randomised controlled human simulation trial on children. *Resuscitation*, 134, 104–109. <https://doi.org/10.1016/j.resuscitation.2018.10.030> **Open Access**
- 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*, 1–10. <https://doi.org/10.1080/10903127.2019.1588443>
- O’Connor, L., Rebesco, M., Robinson, C., Gross, K., Castellana, A., O’Connor, M. J., & Restuccia, M. (2019). Outcomes of Prehospital Chemical Sedation With Ketamine Versus Haloperidol and Benzodiazepine or Physical Restraint Only. *Prehospital Emergency Care*, 23(2), 201–209. <https://doi.org/10.1080/10903127.2018.1501445>
- Schauer, S. G., Naylor, J. F., Maddry, J. K., Hinojosa-Laborde, C., & April, M. D. (2019). Trends in Prehospital Analgesia Administration by US Forces From 2007 Through 2016. *Prehospital Emergency Care*, 23(2), 271–276. <https://doi.org/10.1080/10903127.2018.1489022>
- Thezard, 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*, 1–12. <https://doi.org/10.1080/10903127.2019.1584833>

Welch, M., Barratt, J., Peters, A., & Wright, C. (2019). Systematic review of prehospital haemostatic dressings. *Journal of the Royal Army Medical Corps*, jramc-2018-001066. <https://doi.org/10.1136/jramc-2018-001066>

Airway Management, Resuscitation & CPR

Request
an article



To see the full text use the [LKS ASE Request an Article Service](#) or check with your library. For Open Access articles click through. For articles marked NHS Open Athens click through and sign in with your Open Athens account.

Abelsson, A., Lundberg, L., & Lundberg, L. (2019). CPR performed in battlefield emergency care. *Australasian Journal of Paramedicine*, 16(0). <https://doi.org/10.33151/ajp.16.610> **Open Access**

Alqahtani, S., Nehme, Z., Williams, B., & Smith, K. (2019). The incidence and outcomes of out-of-hospital cardiac arrest precipitated by drug overdose: A systematic review and meta-analysis. *Resuscitation*, 134, 10–18. <https://doi.org/10.1016/j.resuscitation.2018.12.020> **Open Access**

Balian, S., Buckler, D. G., Blewer, A. L., Bhardwaj, A., & Abella, B. S. (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>

Bosson, N., Fang, A., Kaji, A. H., Gausche-Hill, M., French, W. J., Shavelle, D., ... Niemann, J. T. (2019). Racial and ethnic differences in outcomes after out-of-hospital cardiac arrest: Hispanics and Blacks may fare worse than non-Hispanic Whites. *Resuscitation*, 137, 29–34. <https://doi.org/10.1016/j.resuscitation.2019.01.038>

Caputo, M. L., Baldi, E., Savastano, S., Burkart, R., Benvenuti, C., Klersy, C., ... Auricchio, A. (2019). Validation of the return of spontaneous circulation after cardiac arrest (RACA) score in two different national territories. *Resuscitation*, 134, 62–68. <https://doi.org/10.1016/j.resuscitation.2018.11.012> **Open Access**

Chia, M. Y. C., Kwa, P. W. T., 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*, 1–11. <https://doi.org/10.1080/10903127.2019.1587124>

Chicote, B., Aramendi, E., Irusta, U., Owens, P., Daya, M., & Idris, A. (2019). Value of capnography to predict defibrillation success in out-of-hospital cardiac arrest. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.02.028>

De Fazio, C., Skrifvars, M. B., Søreide, E., Creteur, J., Grejs, A. M., Kjærgaard, J., ... Taccone, F. S. (2019). Intravascular versus surface cooling for targeted temperature management after out-of-hospital cardiac arrest: an analysis of the TTH48 trial. *Critical Care*, 23(1), 61. <https://doi.org/10.1186/s13054-019-2335-7> **Open Access**

Dicker, B., Garrett, N., Wong, S., McKenzie, H., McCarthy, J., Jenkin, G., ... Oliver, V. (2019). Relationship between socioeconomic factors, distribution of public access defibrillators and incidence of out-of-hospital cardiac arrest. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.02.022> **Open Access**

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>

Gässler, H., Fischer, M., Wnent, J., Seewald, S., & Helm, M. (2019). Outcome after pre-hospital cardiac arrest in accordance with underlying cause. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.02.039>

- Goto, Y., Funada, A., & Goto, Y. (2019). Impact of prehospital physician-led cardiopulmonary resuscitation on neurologically intact survival after out-of-hospital cardiac arrest: A nationwide population-based observational study. *Resuscitation*, 136, 38–46. <https://doi.org/10.1016/j.resuscitation.2018.11.014>
- 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>
- Hernández, G., Ospina-Tascón, G. A., Damiani, L. P., Estenssoro, E., Dubin, A., Hurtado, J., ... Bakker, J. (2019). Effect of a Resuscitation Strategy Targeting Peripheral Perfusion Status vs Serum Lactate Levels on 28-Day Mortality Among Patients With Septic Shock. *JAMA*, 321(7), 654. <https://doi.org/10.1001/jama.2019.0071>
- Ho, K.-H., Tarng, Y.-W., Chou, Y.-P., & Lin, H.-L. (2019). Permissive hypotensive resuscitation in patients with traumatic hemorrhagic shock. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 14. <https://doi.org/10.1186/s13049-019-0595-5> **Open Access**
- Holmén, J., Herlitz, J., Jimenez-Herrera, M., Karlsson, T., & Axelsson, C. (2019). Passive leg raising in out-of-hospital cardiac arrest. *Resuscitation*, 137, 94–101. <https://doi.org/10.1016/j.resuscitation.2019.02.017>
- Izawa, J., Komukai, S., Gibo, K., Okubo, M., Kiyohara, K., Nishiyama, C., ... Kitamura, T. (2019). Pre-hospital advanced airway management for adults with out-of-hospital cardiac arrest: nationwide cohort study. *BMJ*, 364, l430. <https://doi.org/10.1136/bmj.l430> **Open Access**
- Jensen, T. W., Møller, T. P., Viereck, S., Roland Hansen, J., Pedersen, T. E., Ersbøll, A. K., ... Lippert, F. (2019). A nationwide investigation of CPR courses, books, and skill retention. *Resuscitation*, 134, 110–121. <https://doi.org/10.1016/j.resuscitation.2018.10.029> **Open Access**
- Johnson, N. J., Caldwell, E., Carlbom, D. J., Gaieski, D. F., Prekker, M. E., Rea, T. D., ... Hough, C. L. (2019). The acute respiratory distress syndrome after out-of-hospital cardiac arrest: Incidence, risk factors, and outcomes. *Resuscitation*, 135, 37–44. <https://doi.org/10.1016/j.resuscitation.2019.01.009>
- Jouffroy, R., Saade, A., Alexandre, P., Philippe, P., Carli, P., & Vivien, B. (2019). Epinephrine administration in non-shockable out-of-hospital cardiac arrest. *The American Journal of Emergency Medicine*, 37(3), 387–390. <https://doi.org/10.1016/j.ajem.2018.05.055>
- Karlsson, L., Malta Hansen, C., Wissenberg, M., Møller Hansen, S., Lippert, F. K., Rajan, S., ... Folke, F. (2019). Automated external defibrillator accessibility is crucial for bystander defibrillation and survival: A registry-based study. *Resuscitation*, 136, 30–37. <https://doi.org/10.1016/j.resuscitation.2019.01.014> **Open Access**
- Kelson, K., & deSouza, I. S. (2018). Epinephrine for Out-of-hospital Cardiac Arrest. *Academic Emergency Medicine*, 26(2), acem.13543. <https://doi.org/10.1111/acem.13543>
- Kobayashi, D., Kitamura, T., Kiyohara, K., Nishiyama, C., Hayashida, S., Matsuyama, T., ... Iwami, T. (2019). Cardiopulmonary resuscitation performed by off-duty medical professionals versus laypersons and survival from out-of-hospital cardiac arrest among adult patients. *Resuscitation*, 135, 66–72. <https://doi.org/10.1016/j.resuscitation.2019.01.005>
- Koyama, Y., Matsuyama, T., & Inoue, Y. (2019). Blood flow forward into the artery and backward into the vein during chest compression in out-of-hospital cardiac arrest. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.02.012>
- Lemaitre, E.-L., Tritsch, L., Noll, E., Diemunsch, P., & Meyer, N. (2019). Effectiveness of Intubating Laryngeal Mask Airway in managing out-of-hospital cardiac arrest by non-physicians. *Resuscitation*, 136, 61–69. <https://doi.org/10.1016/j.resuscitation.2018.12.004>

- 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>
- Maurin, O., Lemoine, S., Jost, D., Lanoë, V., Renard, A., Travers, S., ... Tourtier, J. P. (2019). Maternal out-of-hospital cardiac arrest: A retrospective observational study. *Resuscitation*, 135, 205–211. <https://doi.org/10.1016/j.resuscitation.2018.11.001>
- May, T. L., Ruthazer, R., Riker, R. R., Friberg, H., Patel, N., Soreide, E., ... Kent, D. M. (2019). Early withdrawal of life support after resuscitation from cardiac arrest is common and may result in additional deaths. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.02.031>
- Mody, P., Brown, S. P., Kudenchuk, P. J., Chan, P. S., Khera, R., Ayers, C., ... Idris, A. H. (2019). Intraosseous versus intravenous access in patients with out-of-hospital cardiac arrest: Insights from the resuscitation outcomes consortium continuous chest compression trial. *Resuscitation*, 134, 69–75. <https://doi.org/10.1016/j.resuscitation.2018.10.031>
- Morgan, D. P., Muscatello, D., Hayen, A., & Travaglia, J. (2019). Human factors influencing out-of-hospital cardiac arrest survival. *Emergency Medicine Australasia*. <https://doi.org/10.1111/1742-6723.13222>
- 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>
- 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>
- Skjeflo, G. W., Skogvoll, E., Loennechen, J. P., Olasveengen, T. M., Wik, L., & Nordseth, T. (2019). The effect of intravenous adrenaline on electrocardiographic changes during resuscitation in patients with initial pulseless electrical activity in out of hospital cardiac arrest. *Resuscitation*, 136, 119–125. <https://doi.org/10.1016/j.resuscitation.2019.01.021> **Open Access**
- Soar, J., Perkins, G. D., Maconochie, I., Böttiger, B. W., Deakin, C. D., Sandroni, C., ... European Resuscitation Council. (2019). European Resuscitation Council Guidelines for Resuscitation: 2018 Update - Antiarrhythmic drugs for cardiac arrest. *Resuscitation*, 134, 99–103. <https://doi.org/10.1016/j.resuscitation.2018.11.018> **Open Access**
- Teran, F., Dean, A. J., Centeno, C., Panebianco, N. L., Zeidan, A. J., Chan, W., & Abella, B. S. (2019). Evaluation of out-of-hospital cardiac arrest using transesophageal echocardiography in the emergency department. *Resuscitation*, 137, 140–147. <https://doi.org/10.1016/j.resuscitation.2019.02.013>
- Witten, L., Gardner, R., Holmberg, M. J., Wiberg, S., Moskowitz, A., Mehta, S., ... Berg, K. M. (2019). Reasons for death in patients successfully resuscitated from out-of-hospital and in-hospital cardiac arrest. *Resuscitation*, 136, 93–99. <https://doi.org/10.1016/j.resuscitation.2019.01.031> **Open Access**

How to contact your Library Service

Service	Contact	Services Offered
North East Ambulance Service	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	Document Supply; Searches; Current Awareness; Guides & Help;
North West Ambulance Service	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	Document Supply; Searches; Current Awareness; Guides & Help;

East Midland Ambulance Service	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	Document Supply; Searches; Current Awareness; Guides & Help;
Yorkshire Ambulance Service	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	Document Supply; Searches; Current Awareness; Guides & Help;
South Central Ambulance Service	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	Document Supply; Searches; Current Awareness; Guides & Help;
South Western Ambulance Service	eMail: library.mailbox@nhs.net Link to: http://discoverylibrary.org/SWASFT	Document Supply; Searches; Current Awareness; Guides & Help;
East of England Ambulance Service	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	Document Supply; Searches; Current Awareness; Guides & Help;
West Midlands Ambulance Service	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website	eMail: Matt.Holland@nwas.nhs.uk Link to: Library Website
South East Coast Ambulance Service	To be confirmed.	Outreach Library Service; Membership of local NHS Library.
Isle of Wight	eMail: library@iow.nhs.uk Link to: Library Website	Full library membership of the Oliveira Library.
London Ambulance Service	eMail: CARU.Administrator@lond-amb.nhs.uk	Document Supply, Research

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.