



Welcome to **January 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 January 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](mailto: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.

Agarwal, G., Angeles, R., Pirrie, M., McLeod, B., Marzanek, F., Parascandalo, J., & Thabane, L. (2019). Reducing 9-1-1 emergency medical service calls by implementing a community paramedicine program for vulnerable older adults in public housing in Canada: A multi-site cluster randomized controlled trial. *Prehospital Emergency Care*, 1–16. <https://doi.org/10.1080/10903127.2019.1566421>

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**

Armstrong, S., Langlois, A., & Siriwardena, N. (2019). PP8 Paramedic views and experiences of the ethical considerations in ambulance based clinical trials: an interview study. *Emerg Med J*, 36(1), e4–e4. <https://emj.bmj.com/content/36/1/e4.1> **NHS OpenAthens Account**

Black, S., & Frampton, I. (2019). PP26 Convey or not convey? Does crew skill level predict hospital conveyance rate in a UK regional NHS ambulance service trust? *Emerg Med J*, 36(1), e10–e11. <https://doi.org/10.1136/emermed-2019-999.26> **NHS OpenAthens Account**

Black, S., & Frampton, I. (2019). PP25 Decision-making in ambulance service non-conveyance – the DMASC survey. *Emerg Med J*, 36(1), e10–e10. <https://doi.org/10.1136/emermed-2019-999.25> **NHS OpenAthens Account**

Brown, J. F., Raven, M. C., Tangherlini, N. L., & Kennedy Hall, M. (2019). Frequent Users of 9-1-1 Emergency Medical Services: Sign of Success or Symptom of Impending Failure? *Prehospital Emergency Care*, 23(1), 94–96. <https://doi.org/10.1080/10903127.2018.1475531>

Cadilhac, D. A., Grimley, R., Bladin, C. F., Donnan, G. A., Hill, K., Levi, C. R., ... Kilkenny, M. F. (2019). Abstract TP283: Ambulance Service Use and Associations With Hospital Care and 90-day Outcomes for Acute Stroke: The Australian Stroke Clinical Registry (AuSCR). *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.TP283](https://doi.org/10.1161/str.50.suppl_1.TP283)

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*, 1–20. <https://doi.org/10.1080/10903127.2019.1568651>

Ebadi, A., Froutan, R., & Malekzadeh, J. (2019). The design and psychometric evaluation of the emergency medical services resilience scale (EMSRS). *International Emergency Nursing*, 42, 12–18. <https://doi.org/10.1016/J.IENJ.2018.09.002> **Open Access**

Evans, B., Brown, A., Bulger, J., Fegan, G., Ford, S., Guy, K., ... Snooks, H. (2019). PP30 'I can't remember' – patients views of receiving pain management from paramedics for suspected hip fracture. *Emerg Med J*, 36(1), e12–e12. <https://doi.org/10.1136/emermed-2019-999.30> **NHS OpenAthens Account**

- Evans, B., Brown, A., Bulger, J., Fegan, G., Ford, S., Guy, K., ... Snooks, H. (2019). PP29 Paramedics' experiences of administering fascia iliaca compartment block to patients with suspected hip fracture. *Emerg Med J*, 36(1), e11–e12. <https://emj.bmj.com/content/36/1/e11.3> **NHS OpenAthens Account**
- Fitzpatrick, D., Maxwell, D., & Craigie, A. (2019). PP14 The feasibility and acceptability of a novel low tech intervention to improve pre-hospital data recording for pre-alert and handover to the emergency department. *Emerg Med J*, 36(1), e6–e6. <https://emj.bmj.com/content/36/1/e6.1> **NHS OpenAthens Account**
- Friedson, A. I. (2018). Income and Ambulance Response Time Inequality. *JAMA Network Open*, 1(7), e185201. <https://doi.org/10.1001/jamanetworkopen.2018.5201>
- Gibson, C. V. (2019). Emergency medical services oxygen equipment: a fomite for transmission of MRSA? *Emergency Medicine Journal : EMJ*, 36(2), 89–91. <https://doi.org/10.1136/emered-2018-207758> **NHS OpenAthens Account**
- Han, X., Lowry, T. Y., Loo, G. T., Rabin, E. J., Grinspan, Z. M., Kern, L. M., ... Shapiro, J. S. (2019). Expanding Health Information Exchange Improves Identification of Frequent Emergency Department Users. *Annals of Emergency Medicine*, 73(2), 172–179. <https://doi.org/10.1016/j.annemergmed.2018.07.024>
- Hird, K., Bell, F., Mars, B., James, C., & Gunnell, D. (2019). OP6 An investigation into suicide amongst ambulance service staff. *Emerg Med J*, 36(1), e3–e3. <https://emj.bmj.com/content/36/1/e3.1>
- Hörberg, A., Jirwe, M., Kalén, S., Vicente, V., & Lindström, V. (2017). We need support! A Delphi study about desirable support during the first year in the emergency medical service. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 25(1), 89. <https://doi.org/10.1186/s13049-017-0434-5> **Open Access**
- Hsia, R. Y., Huang, D., Mann, N. C., Colwell, C., Mercer, M. P., Dai, M., & Niedzwiecki, M. J. (2018). A US National Study of the Association Between Income and Ambulance Response Time in Cardiac Arrest. *JAMA Network Open*, 1(7), e185202. <https://doi.org/10.1001/jamanetworkopen.2018.5202> **Open Access**
- Jones, R. P. (2019). Ignorance isn't bliss: behind the unequal distribution of end-of-life demand and cost. *Journal of Paramedic Practice*, 11(2), 77–79. Retrieved from [http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109086;article=pp\\_11\\_2\\_77](http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109086;article=pp_11_2_77)
- Miller, J., & Paramedic. (2019). PP10 'The ones that don't say'; challenges in managers identifying potentially traumatised ambulance staff. *Emerg Med J*, 36(1), e4–e5. <https://emj.bmj.com/content/36/1/e4.3> **NHS OpenAthens Account**
- Misasi, P., & Keebler, J. R. (2019). Medication safety in emergency medical services: approaching an evidence-based method of verification to reduce errors. *Therapeutic Advances in Drug Safety*, 10, 204209861882191. <https://doi.org/10.1177/2042098618821916> **Open Access**
- Péculo-Carrasco, J.-A., Rodríguez-Bouza, M., Casal-Sánchez, M.-M., de-la-Fuente-Rodríguez, J.-M., Puerta-Córdoba, A., Rodríguez-Ruiz, H.-J., ... Failde, I. (2019). Development and Validation of a Safety Scale Perceived by the Witness of Prehospital Emergency Care. *Journal of Patient Safety*, 1. <https://doi.org/10.1097/PTS.0000000000000567>

Phung, V.-H., Trueman, I., Togher, F., Ørner, R., & Siriwardena, N. (2019). PP7 Perceptions and experiences of being a community first responder: interview study. *Emerg Med J*, 36(1), e3–e3. <https://emj.bmj.com/content/36/1/e3.2> **NHS OpenAthens Account**

Rees, N., Porter, A., Rapport, F., Hughes, S., & John, A. (2018). Paramedics' perceptions of the care they provide to people who self-harm: A qualitative study using evolved grounded theory methodology. *PLOS ONE*, 13(10), e0205813. <https://doi.org/10.1371/journal.pone.0205813>  
**Open Access**

Reich, T. (2019). 04 Using electronic patient records collected by ambulance personnel to detect disease outbreaks. *Emerg Med J*, 36(1), e2–e2. <https://emj.bmj.com/content/36/1/e2.2> **NHS OpenAthens Account**

Slope, R., Pope, C., Crouch, R., & Bernthal, E. M. (2019). Military and civilian handover communication in emergency care: how does it differ? *Journal of Paramedic Practice*, 11(2), 66–73. Retrieved from [http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109084;article=pp\\_11\\_2\\_66](http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109084;article=pp_11_2_66)

Swinton, P., Corfield, A. R., Moultrie, C., Percival, D., Proctor, J., Sinclair, N., & Perkins, Z. B. (2018). Impact of drug and equipment preparation on pre-hospital emergency Anaesthesia (PHEA) procedural time, error rate and cognitive load. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 26(1), 82. <https://doi.org/10.1186/s13049-018-0549-3> **Open Access**

Tang, S., Dovey, G., & Mapstone, J. (2019). Homelessness: implications for paramedic practice. *Journal of Paramedic Practice*, 11(2), 52–53. Retrieved from [http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109081;article=pp\\_11\\_2\\_52](http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109081;article=pp_11_2_52)

Thomas, M., Voss, S., Bengner, J., Kirby, K., & Nolan, J. P. (2019). Cluster randomised comparison of the effectiveness of 100% oxygen versus titrated oxygen in patients with a sustained return of spontaneous circulation following out of hospital cardiac arrest: a feasibility study. PROXY: post ROSC OXYgenation study. *BMC Emergency Medicine*, 19(1), 16. <https://doi.org/10.1186/s12873-018-0214-1> **Open Access**

Watanabe, B. L., Patterson, G. S., Kempema, J. M., Magallanes, O., & Brown, L. H. (2019). Is Use of Warning Lights and Sirens Associated With Increased Risk of Ambulance Crashes? A Contemporary Analysis Using National EMS Information System (NEMSIS) Data. *Annals of Emergency Medicine*. <https://doi.org/10.1016/j.annemergmed.2018.09.032>

Williams, V., LaFlamme-Williams, Y., McNee, K., Morgan, H., Morrison, Z., Potts, H. W., ... Porter, A. (2019). PP18 Implementation of electronic patient clinical records in ambulances in the UK: a national survey. *Emerg Med J*, 36(1), e7–e8. <https://emj.bmj.com/content/36/1/e7.3> **NHS OpenAthens Account**

## Prehospital Research – Methods and Discussion



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.

Boudreaux, E. D., Higgins, S. E., Reznik-Zellen, R., Wang, B., & Volturo, G. (2019). Scholarly productivity and impact: Developing a quantifiable, norm-based benchmarking methodology for academic emergency medicine. *Academic Emergency Medicine*. <https://doi.org/10.1111/acem.13704>

Brown, J., Lane, A., Cooper, C., & Vassar, M. (2018). The Results of Randomized Controlled Trials in Emergency Medicine Are Frequently Fragile. *Annals of Emergency Medicine*, 0(0).  
<https://doi.org/10.1016/j.annemergmed.2018.10.037>

Bulger, J., Rees, N., Snooks, H., Fegan, G., Ford, S., Evans, B., & Longo, M. (2019). 03 The use of scratchcards for allocation concealment and treatment allocation in a prehospital randomised controlled trial. *Emerg Med J*, 36(1), e2–e2. <https://emj.bmj.com/content/36/1/e2.1> **NHS OpenAthens Account**

Garg, R., Richards, C. T., Naidech, A., & Prabhakaran, S. (2019). Abstract TP296: Predicting Cincinnati Prehospital Stroke Scale Components in Emergency Medical Services Patient Care Reports Using Natural Language Processing and Machine Learning. *Stroke*, 50(Suppl\_1).  
[https://doi.org/10.1161/str.50.suppl\\_1.TP296](https://doi.org/10.1161/str.50.suppl_1.TP296)

Hagiwara, M. A., Magnusson, C., Herlitz, J., Seffel, E., Axelsson, C., Munters, M., ... Nilsson, L. (2019). Adverse events in prehospital emergency care: a trigger tool study. *BMC Emergency Medicine*, 19(1), 14.  
<https://doi.org/10.1186/s12873-019-0228-3> **Open Access**

Hancox, J. M., Toman, E., Brace-McDonnell, S. J., & Naumann, D. N. (2019). Patient-centred outcomes for prehospital trauma trials: A systematic review and patient involvement exercise. *Trauma*, 146040861881791. <https://doi.org/10.1177/1460408618817912>

Leisman, D. E. (2019). Ten Pearls and Pitfalls of Propensity Scores in Critical Care Research. *Critical Care Medicine*, 47(2), 176–185. <https://doi.org/10.1097/CCM.0000000000003567>

Moore, R., Scollard, Z., & Tran, V. (2019). Night terror: When is the best time to start leading the night team? *Emergency Medicine Australasia*, 31(1), 120–121. <https://doi.org/10.1111/1742-6723.13228> **Open Access**

Puskarich, M. A., Callaway, C., Silbergleit, R., Pines, J. M., Obermeyer, Z., Wright, D. W., ... Levy, P. D. (2018). Priorities to Overcome Barriers Impacting Data Science Application in Emergency Care Research. *Academic Emergency Medicine*, 26(1), acem.13520. <https://doi.org/10.1111/acem.13520> **Open Access**

Sanossian, N., Liebeskind, D., Starkman, S., Shkirkova, K., Kim-Tenser, M. A., & Saver, J. L. (2019). Abstract TMP61: Enrolling Stroke Patients in Prehospital Research During Late Night and Early Morning Times. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.TMP61](https://doi.org/10.1161/str.50.suppl_1.TMP61)

Wihlborg, J., Edgren, G., Johansson, A., Sivberg, B., & Gummesson, C. (2019). Using the case method to explore characteristics of the clinical reasoning process among ambulance nurse students and professionals. *Nurse Education in Practice*, 35, 48–54. <https://doi.org/10.1016/j.nepr.2019.01.001>

Wilson, C., Harley, C., & Steels, S. (2019). PP9 A systematic review and meta-analysis of pre-hospital diagnostic accuracy studies. *Emerg Med J*, 36(1), e4–e4. <https://emj.bmj.com/content/36/1/e4.2> **NHS OpenAthens Account**

## 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.

Homma, H., Niiyama, Y., Sonoda, H., Himuro, N., & Yamakage, M. (2019). The Impact of Air Transport for Acute Coronary Syndrome Patients. *Air Medical Journal*, 0(0). <https://doi.org/10.1016/j.amj.2018.11.008>

*Prehospital Emergency Services Current Awareness Update – Issue 67, January 2019*

Petrone, A., Power, M., Daniels, D., Large, M., & Adcock, A. (2019). Abstract TP268: Utilization and Appropriateness of Emergency Medical Services Air Transport in Acute Ischemic Stroke Care. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.TP268](https://doi.org/10.1161/str.50.suppl_1.TP268)

Rasmussen, K., Langdalen, H., Sollid, S. J. M., Abrahamsen, E. B., Sørskår, L. I. K., Bondevik, G. T., & Abrahamsen, H. B. (2019). Training and assessment of non-technical skills in Norwegian helicopter emergency services: a cross-sectional and longitudinal study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 1. <https://doi.org/10.1186/s13049-018-0583-1> **Open Access**

Ruskin, K. J. (2019). Helicopter air ambulance services. *Current Opinion in Anaesthesiology*, 1. <https://doi.org/10.1097/ACO.0000000000000700>

Schober, P., Biesheuvel, T., de Leeuw, M. A., Loer, S. A., & Schwarte, L. A. (2019). Prehospital cricothyrotomies in a helicopter emergency medical service: analysis of 19,382 dispatches. *BMC Emergency Medicine*, 19(1), 12. <https://doi.org/10.1186/s12873-019-0230-9> **Open Access**

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*, 0(0). <https://doi.org/10.1016/j.amj.2018.11.016>

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*. <https://doi.org/10.1016/J.AMJ.2018.11.009>

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>

## 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.

Afreen, E., Castonguay, A. C., Shawver, J., Salahuddin, H., Korsnack, A., Dawod, G., ... Jumaa, M. A. (2019). Abstract TP271: Long-term Results of an EMS-driven Rapid Arterial occlusion Evaluation (RACE) Protocol for Triage of Acute Strokes. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.TP271](https://doi.org/10.1161/str.50.suppl_1.TP271)

Amoako, J., Evans, S., Brown, N. V., Khaliqдина, S., & Caterino, J. M. (2019). Identifying predictors of under-triage in injured older adults after implementation of statewide geriatric trauma triage criteria. *Academic Emergency Medicine*. <https://doi.org/10.1111/acem.13695>

Bosch, N. A., Cohen, D. M., & Walkey, A. J. (2019). Risk Factors for New-Onset Atrial Fibrillation in Patients With Sepsis. *Critical Care Medicine*, 47(2), 280–287. <https://doi.org/10.1097/CCM.0000000000003560>

Cheung, S., Shkirkova, K., Liebeskind, D., Sabra, M., Starkman, S., Hamilton, S., ... Sanossian, N. (2019). Abstract WP330: Refining Prehospital Stroke Severity Measures: Is There Added Benefit to Combining Field Glasgow Coma Scale and Los Angeles Motor Score? *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.WP330](https://doi.org/10.1161/str.50.suppl_1.WP330)

*Prehospital Emergency Services Current Awareness Update – Issue 67, January 2019*



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*, 1–10. <https://doi.org/10.1080/10903127.2019.1573281>

Flynn, D., Rodgers, H., & Price, C. (2019). 01 Development and validation of a pragmatic prehospital tool to identify stroke MIMIC patients. *Emerg Med J*, 36(1), e1–e1. <https://emj.bmj.com/content/36/1/e1.1>  
**NHS OpenAthens Account**

Gill, R., de la Pena, P., Ray, J., Eriksson, N., Durazo-Arvizu, R., Schneck, M., ... Ruland, S. (2019). Abstract WP326: Factors in Acute Ischemic Stroke Predicting Pre-Hospital Notification by Emergency Medical Services. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.WP326](https://doi.org/10.1161/str.50.suppl_1.WP326)

Iversen, A. K. S., Kristensen, M., Østervig, R. M., Kjøber, L., Sölétormos, G., Lundager Forberg, J., ... Iversen, K. K. (2019). A simple clinical assessment is superior to systematic triage in prediction of mortality in the emergency department. *Emergency Medicine Journal : EMJ*, 36(2), 66–71. <https://doi.org/10.1136/emered-2016-206382>

Johannesdottir, U., Jonsdottir, G. M., Johannesdottir, B. K., Heimisdottir, A. A., Eythorsson, E., Gudbjartsson, T., & Mogensen, B. (2019). Penetrating stab injuries in Iceland: a whole-nation study on incidence and outcome in patients hospitalized for penetrating stab injuries. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 7. <https://doi.org/10.1186/s13049-018-0582-2>  
**Open Access**

Ogle, K. L. (2019). Abstract TMP67: Prehospital Screening for Large Vessel Occlusion and Bypass to Endovascular Stroke Centers: Using the Ambulance Clinical Triage for Acute Stroke Treatment Scale With Adaptation From DAWN and DEFUSE-3 Trials. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.TMP67](https://doi.org/10.1161/str.50.suppl_1.TMP67)

Oostema, J. A., Chassee, T., Baer, W., Edberg, A., & Reeves, M. (2019). Abstract TP278: Paramedic Ischemic Stroke Recognition Predicts Favorable Outcomes. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.TP278](https://doi.org/10.1161/str.50.suppl_1.TP278)

Richards, C. T., Song, S. Y., Kwon, S., Wymore, E., Kandula, N. R., Brown, J. F., ... Prabhakaran, S. (2019). Abstract 170: Paramedic-Suspected Stroke Increased after Implementing a Community-Engaged Stroke Preparedness Intervention in Chicago. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.170](https://doi.org/10.1161/str.50.suppl_1.170)

Robinson, S. N., Ido, M. S., & Bayakly, R. (2019). Abstract 171: Stroke Identification by Emergency Medical Services: Determinants and its Impact on In-Patient Care. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.171](https://doi.org/10.1161/str.50.suppl_1.171)

Rostanski, S. K., Kummer, B. R., Miller, E. C., Marshall, R. S., Williams, O., & Willey, J. Z. (2019). Impact of Patient Language on Emergency Medical Service Use and Prenotification for Acute Ischemic Stroke. *The Neurohospitalist*, 9(1), 5–8. <https://doi.org/10.1177/1941874418801429>

Shkirkova, K., Chueng, S., McMullan, J., Saver, J. L., Liebeskind, D., Conwit, R., ... Sanossian, N. (2019). Abstract TP276: Comparative Performance of for Paramedic Stroke Severity Assessment Scales of Stroke Severity in Assessing Stroke Severity and Predicting Long-Term Functional Outcome. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.TP276](https://doi.org/10.1161/str.50.suppl_1.TP276)

Shkirkova, K., Sabra, M., Saver, J., Liebeskind, D. S., Hamilton, S., Starkman, S., & Sanossian, N. (2019). Abstract WP292: Differential Ability of Prehospital Large Vessel Occlusion Scales to Identify Intracranial Hemorrhage. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.WP292](https://doi.org/10.1161/str.50.suppl_1.WP292)

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*, emermed-2017-206848. <https://doi.org/10.1136/emered-2017-206848> **NHS OpenAthens Account**

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*, 0(0). <https://doi.org/10.1016/j.ajem.2019.01.056>

Zhou, X., & Wu, F. (2019). QSOFA score in identifying the septic patients according to Sepsis 1.0 or Sepsis 2.0, putting new wine into old bottles? *The American Journal of Emergency Medicine*, 37(2), 357–358. <https://doi.org/10.1016/j.ajem.2018.06.017>

## 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.

Azarkhavarani, M. G., & Alavi, N. M. (2018). Surveying the quality of prehospital emergency services for the elderly falls 2017. *Journal of Education and Health Promotion*, 7, 164. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6332656/>

Castillo, E. M., Brennan, J. J., Howard, J., Hsia, R. Y., Chalmers, C., Chan, T. C., & Ko, K. J. (2019). Factors Associated With Geriatric Frequent Users of Emergency Departments. *Annals of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.annemergmed.2018.12.013>

Fishe, J. N., Psoter, K. J., & Anders, J. F. (2018). Emergency Medical Services Bypass of the Closest Facility for Pediatric Patients. *Prehospital Emergency Care*, 1–6. <https://doi.org/10.1080/10903127.2018.1557304>

Lord, B., Reed, R., & Crimmins, G. (2019). 02 Women's experience of unplanned out-of-hospital birth in paramedic care. *Emerg Med J*, 36(1), e1–e2. <https://emj.bmj.com/content/36/1/e1.2> **NHS OpenAthens Account**

Supat, B., Brennan, J. J., Vilke, G. M., Ishimine, P., Hsia, R. Y., & Castillo, E. M. (2018). Characterizing pediatric high frequency users of California emergency departments. *The American Journal of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.ajem.2018.12.015>

Weber, E. J. (2019). Triage: making the simple complex? [Editorial] *Emergency Medicine Journal : EMJ*, 36(2), 64–65. <https://doi.org/10.1136/emered-2018-207659> **NHS OpenAthens Account**

Venema, E., Lingsma, H. F., Chalos, V., Mulder, M. J. H. L., Lahr, M. M. H., van der Lugt, A., ... Roozenbeek, B. (2019). Personalized Prehospital Triage in Acute Ischemic Stroke. *Stroke*, 50(2), 313–320. <https://doi.org/10.1161/STROKEAHA.118.022562>

## On-Scene Interventions



- Bosson, N., Isakson, B., Morgan, J. A., Kaji, A. H., Uner, A., Hurley, K., ... Niemann, J. T. (2018). Safety and Effectiveness of Field Nitroglycerin in Patients with Suspected ST Elevation Myocardial Infarction. *Prehospital Emergency Care*, 1–9. <https://doi.org/10.1080/10903127.2018.1558318>
- Brown, E., Tohira, H., Bailey, P., Fatovich, D., Pereira, G., & Finn, J. (2018). Longer Prehospital Time was not Associated with Mortality in Major Trauma: A Retrospective Cohort Study. *Prehospital Emergency Care*, 1–11. <https://doi.org/10.1080/10903127.2018.1551451>
- Bulger, J., Brown, A., Evans, B., Fegan, G., Ford, S., Guy, K., ... Snooks, H. (2019). OP5 Rapid analgesia for prehospital hip disruption (RAPID): findings from a randomised feasibility study. *Emerg Med J*, 36(1), e2–e3. <https://emj.bmj.com/content/36/1/e2.3> [NHS OpenAthens Account](#)
- Carr, W. O. G., Kyle, W. O. T., Wheatley, P. S., & Mellor, S. C. A. (2019). A tactical analgesic option for Durham and Cleveland police firearms medics: the journey. *Journal of Paramedic Practice*, 11(2), 61–65. Retrieved from [http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109083;article=pp\\_11\\_2\\_61](http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109083;article=pp_11_2_61)
- Coats, T. J., Fragoso-Iñiguez, M., & Roberts, I. (2019). Implementation of tranexamic acid for bleeding trauma patients: a longitudinal and cross-sectional study. *Emergency Medicine Journal : EMJ*, 36(2), 78–81. <https://doi.org/10.1136/emermed-2018-207693> [NHS OpenAthens Account](#)
- Crewdson, K., Lockey, D., Voelckel, W., Temesvari, P., & Lossius, H. M. (2019). Best practice advice on pre-hospital emergency anaesthesia & advanced airway management. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 6. <https://doi.org/10.1186/s13049-018-0554-6> [Open Access](#)
- Drenck, N., Viereck, S., Bækgaard, J. S., Christensen, K. B., Lippert, F., & Folke, F. (2019). Pre-hospital management of acute stroke patients eligible for thrombolysis – an evaluation of ambulance on-scene time. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 3. <https://doi.org/10.1186/s13049-018-0580-4> [Open Access](#)
- Forrest, M., Porter, K., & Velde, J. van der. (2019). Methoxyflurane (Penthrox®) - a case series of use in the prehospital setting. *Journal of Paramedic Practice*, 11(2), 54–60. Retrieved from [http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109082;article=pp\\_11\\_2\\_54](http://www.paramedicpractice.com/cgi-bin/go.pl/library/article.cgi?uid=109082;article=pp_11_2_54)
- Gottlieb, M., Goldstein, C., & Ward, E. J. (2019). Is the Liberal Use of Oxygen Associated With Worse Outcomes Among Critically Ill Patients? *Annals of Emergency Medicine*, 73(2), 180–182. <https://doi.org/10.1016/j.annemergmed.2018.07.018>
- Griggs, J., Lyon, R., Sherriff, M., Leung, J., & Wareham, G. (2019). PP27 Pre-hospital lactate monitoring: a worthy adjunct to systolic blood pressure and shock index in triggering blood product administration in patients with suspected traumatic haemorrhage? *Emerg Med J*, 36(1), e11–e11. <https://emj.bmj.com/content/36/1/e11.1> [NHS OpenAthens Account](#)
- Hussmann, B., Schoeneberg, C., Jungbluth, P., Heuer, M., Lefering, R., Maek, T., ... Pape, H.-C. (2019). Enhanced prehospital volume therapy does not lead to improved outcomes in severely injured patients
- Prehospital Emergency Services Current Awareness Update – Issue 67, January 2019*

with severe traumatic brain injury. BMC Emergency Medicine, 19(1), 13. <https://doi.org/10.1186/s12873-019-0221-x> **Open Access**

Jones, M., Snooks, H., Bulger, J., Watkins, A., Moore, C., Edwards, A., ... Bell, F. (2019). PP24 Time: take-home naloxone in multicentre emergency settings: protocol for a feasibility study. Emerg Med J, 36(1), e10–e10. <https://emj.bmj.com/content/36/1/e10.1> **NHS OpenAthens Account**

Jouffroy, R., Saade, A., Pegat-Toquet, A., Philippe, P., Carli, P., & Vivien, B. (2019). Pre-hospital mechanical ventilation in septic shock patients. The American Journal of Emergency Medicine. <https://doi.org/10.1016/j.ajem.2018.12.047>

Keenan, K. J., Cole, S. B., Martin, C., Hemphill, J. C., & Madhok, D. Y. (2019). Abstract WP290: Direct Ambulance to Imaging Based Mission Protocol Improves Thrombolysis Metrics for Prehospital Suspected Acute Stroke Patients. Stroke, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.WP290](https://doi.org/10.1161/str.50.suppl_1.WP290)

Kelson, K., & deSouza, I. S. (2018). Epinephrine for Out-of-hospital Cardiac Arrest. Academic Emergency Medicine, acem.13543. <https://doi.org/10.1111/acem.13543>

Kirkland, S. W., Soleimani, A., Rowe, B. H., & Newton, A. S. (2019). A systematic review examining the impact of redirecting low-acuity patients seeking emergency department care: is the juice worth the squeeze? Emergency Medicine Journal : EMJ, 36(2), 97–106. <https://doi.org/10.1136/emered-2017-207045> **NHS OpenAthens Account**

Kowalski, R. G., Schimpf, B., Wilson, D., Poisson, S. N., Nyerg, E. M., Carrera, E., ... Jones, W. J. (2019). Abstract WP323: Significant Reduction in Prehospital Evaluation and Door-to-Treatment Times With a Mobile Stroke Unit. Stroke, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.WP323](https://doi.org/10.1161/str.50.suppl_1.WP323)

Lane, D. J., Wunsch, H., Saskin, R., Cheskes, S., Lin, S., Morrison, L. J., & Scales, D. C. (2018). Association Between Early Intravenous Fluids Provided by Paramedics and Subsequent In-Hospital Mortality Among Patients With Sepsis. JAMA Network Open, 1(8), e185845. <https://doi.org/10.1001/jamanetworkopen.2018.5845> **Open Access**

Makris, M., & Iorio, A. (2019). Prehospital fresh frozen plasma: Universal life saver or treatment in search of a target population? Research and Practice in Thrombosis and Haemostasis, 3(1), 12–14. <https://doi.org/10.1002/rth2.12172> **Open Access**

Maria, V., Pasquale, B., Carmine, I., & Giuseppe, S. (2019). Epinephrine for out of hospital cardiac arrest: A systematic review and meta-analysis of randomized controlled trials. Resuscitation, 136, 54–60. <https://doi.org/10.1016/j.resuscitation.2019.01.016>

Modir, R. F., Meyer, D., Hamidy, M., Delima, T., Steinberg, J., Mukau, L., ... Meyer, B. (2019). Abstract WP308: BEMI (Brain Emergency Management Initiative) for Optimizing Hub-EMS-Spoke Transfer Networks. Stroke, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.WP308](https://doi.org/10.1161/str.50.suppl_1.WP308)

Munro, S., Cooke, D., Joy, M., Smith, A., Poole, K., Perciato, L., ... Quinn, T. (2019). PP11 The use of prehospital 12-lead electrocardiograms in acute stroke patients. Emerg Med J, 36(1), e5–e5. <https://emj.bmj.com/content/36/1/e5.1> **NHS OpenAthens Account**

Nishijima, D. K., Kuppermann, N., Roberts, I., VanBuren, J. M., & Tancredi, D. J. (2019). The Effect of Tranexamic Acid on Functional Outcomes: An Exploratory Analysis of the CRASH-2 Randomized Controlled Trial. Annals of Emergency Medicine, 0(0). <https://doi.org/10.1016/j.annemergmed.2018.11.018>  
*Prehospital Emergency Services Current Awareness Update – Issue 67, January 2019*

Nour, M., Gornbein, J. A., Kunz, A., Nolte, C., Scheitz, J. F., Ebinger, M., ... Saver, J. L. (2019). Abstract 31: Magnitude of Benefit of Prehospital Mobile Stroke Unit vs Conventional ED Thrombolysis: Final Estimate Based on PHANTOM-S Observational Registry Study. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.31](https://doi.org/10.1161/str.50.suppl_1.31)

Pakkanen, T., Nurmi, J., Huhtala, H., & Silfvast, T. (2019). Prehospital on-scene anaesthetist treating severe traumatic brain injury patients is associated with lower mortality and better neurological outcome. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 27(1), 9. <https://doi.org/10.1186/s13049-019-0590-x> **Open Access**

Pélieu, I., Kull, C., & Walder, B. (2019). Prehospital and Emergency Care in Adult Patients with Acute Traumatic Brain Injury. *Medical Sciences*, 7(1), 12. <https://doi.org/10.3390/medsci7010012> **Open Access**

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*, 0(0). <https://doi.org/10.1016/j.ajem.2019.01.051>

Rees, N., Hampton, C., Bulger, J., Ali, K., Quinn, T., Ford, G., ... Snooks, H. (2019). PP28 TIA prehospital referral feasibility trial (TIER): recruitment and intervention usage. *Emerg Med J*, 36(1), e11–e11. <https://emj.bmj.com/content/36/1/e11.2> **NHS OpenAthens Account**

Siriwardena, A. N., Asghar, Z., Lord, B., Pocock, H., Phung, V.-H., Foster, T., ... Snooks, H. (2019). Patient and clinician factors associated with prehospital pain treatment and outcomes: cross sectional study. *The American Journal of Emergency Medicine*, 37(2), 266–271. <https://doi.org/10.1016/j.ajem.2018.05.041>

Zhao, H., Coote, S., Langenberg, F., Easton, D., Bent, L., Foster, S., ... Davis, S. M. (2019). Abstract 175: Faster Prehospital Workflow in the Melbourne Mobile Stroke Unit Halves Onset to Reperfusion Therapy. *Stroke*, 50(Suppl\_1). [https://doi.org/10.1161/str.50.suppl\\_1.175](https://doi.org/10.1161/str.50.suppl_1.175)

## 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.

Dobbie, F., Clegg, G., MacKintosh, A. M., & Bauld, L. (2019). PP20 Exploring the knowledge, attitudes, and behaviour of the general public to responding to out-of-hospital cardiac arrest. *Emerg Med J*, 36(1), e8–e8. <https://emj.bmj.com/content/36/1/e8.2> **NHS OpenAthens Account**

Ebner, F., Ullén, S., Åneman, A., Cronberg, T., Mattsson, N., Friberg, H., ... Nielsen, N. (2019). Associations between partial pressure of oxygen and neurological outcome in out-of-hospital cardiac arrest patients: an explorative analysis of a randomized trial. *Critical Care*, 23(1), 30. <https://doi.org/10.1186/s13054-019-2322-z> **Open Access**

Edwards, T., Williams, J., & Cottee, M. (2019). Influence of prehospital airway management on neurological outcome in patients transferred to a heart attack centre following out-of-hospital cardiac arrest. *Emergency Medicine Australasia*, 31(1), 76–82. <https://doi.org/10.1111/1742-6723.13107>

- Evans, B., Brown, A., Bulger, J., Fegan, G., Ford, S., Guy, K., ... Snooks, H. (2019). PP29 Paramedics' experiences of administering fascia iliaca compartment block to patients with suspected hip fracture. *Emerg Med J*, 36(1), e11–e12. <https://emj.bmj.com/content/36/1/e11.3> **NHS OpenAthens Account**
- Fothergill, R. T., Emmerson, A. C., Iyer, R., Lazarus, J., Whitbread, M., Nolan, J. P., ... Perkins, G. D. (2019). Repeated adrenaline doses and survival from an out-of-hospital cardiac arrest. *Resuscitation*, 0(0). <https://doi.org/10.1016/j.resuscitation.2019.01.022>
- Halbesma, N., Clegg, G., Bijman, L., Lynch, E., Clarke, S., & Bywater, D. (2019). PP23 Linking pre-hospital out-of-hospital cardiac arrest data to in-hospital outcomes in order to improve the 'chain of survival.' *Emerg Med J*, 36(1), e9–e10. <https://emj.bmj.com/content/36/1/e9.2> **NHS OpenAthens Account**
- Hardy, G., Maddry, J. K., Ng, P. C., Savell, S. C., Arana, A. A., Kester, A., & Bebart, V. S. (2019). Impact of prehospital airway management on combat mortality. *The American Journal of Emergency Medicine*, 37(2), 349–350. <https://doi.org/10.1016/j.ajem.2018.06.052>
- 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>
- 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>
- Khanna, V. A., Chidambaram, S., & Goh, E. L. (2019). Prehospital Advanced Life Support for Out-of-Hospital Cardiac Arrest in Blunt Trauma Patients. *JAMA Surgery*, 154(1), 95. <https://doi.org/10.1001/jamasurg.2018.4291>
- Lapostolle, F., Bataille, S., Loyeau, A., Laborne, F.-X., Dupas, F., Boche, T., ... Lambert, Y. (2019). Decision to deploy coronary reperfusion is not affected by the volume of ST-segment elevation myocardial infarction patients managed by prehospital emergency medical teams. *European Journal of Emergency Medicine*, 1. <https://doi.org/10.1097/MEJ.0000000000000586>
- Lin, P., Shi, F., Wang, L., & Liang, Z.-A. (2019). Nighttime is associated with decreased survival for out of hospital cardiac arrests: A meta-analysis of observational studies. *The American Journal of Emergency Medicine*, 0(0). <https://doi.org/10.1016/j.ajem.2019.01.004>
- Prior, F., Clegg, G., & McRaid, A. (2019). PP21 Rapid assessment of membrane osmotic pressure as a guide to resuscitation in the acutely shocked patient. *Emerg Med J*, 36(1), e8–e9. <https://emj.bmj.com/content/36/1/e8.3> **NHS OpenAthens Account**
- 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>

### How to contact your Library Service

Service	Contact	Services Offered
North East Ambulance Service	eMail: <a href="mailto:Matt.Holland@nwas.nhs.uk">Matt.Holland@nwas.nhs.uk</a> Link to: <a href="#">Library Website</a>	Document Supply; Searches; Current Awareness; Guides & Help;

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