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Prehospital Emergency Services Current Awareness Update.

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Online Bibliography

All this month's articles included here are available through the Mendeley Group [Prehospital Emergency Care Current Awareness Current](#). Notes access requires a free one off registration. Then click through to see the Abstracts with links to sources of full text. The previous month's articles are available from the [backfile](#). This means that information about articles in in past updates is always available.

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Feedback

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

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

Research and Best Practice

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

- Papers listed as **Open Access** are freely available in full text from the link provided.
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The research papers have been arranged by the topic headings below: (*Ctrl & Click on the heading to go straight to that section*)

[Prehospital Practitioners – Professional Development](#)

[Prehospital Research – Methods and Discussion](#)

[Diagnosis & Triage](#)

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[On-Scene Interventions](#)

[Airway Management, Resuscitation & CPR](#)

[Further Research Needed](#)

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Prehospital Practitioners – Professional Development

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Aitavaara-Anttila Mia [et al.] Use of prehospital emergency medical services according to income of residential area [Journal] // Emergency Medicine Journal. - [s.l.] : BMJ Publishing Group, 7 1, 2020. - 7 : Vol. 37. - pp. 429-433. – <http://doi.org/10.1136/emered-2019-208834> **NHS OpenAthens**

Bennett Ryan, Mehmed Niall and Williams Brett Non-technical skills in paramedicine: A scoping review [Journal] // Nursing & Health Sciences. - [s.l.] : Nurs Health Sci, 7 31, 2020. - p. nhs.12765. – <http://doi.org/10.1111/nhs.12765>

Bertenshaw Claire [et al.] Pre-hospital and retrieval medicine: Special skills placements and subspecialty training // EMA - Emergency Medicine Australasia. - [s.l.] : Blackwell Publishing, 8 1, 2020. - Vol. 32. - pp. 667-669. – <http://doi.org/10.1111/1742-6723.13577>

Bray Janet [et al.] A systematic review of the impact of emergency medical service practitioner experience and exposure to out of hospital cardiac arrest on patient outcomes [Journal] // Resuscitation. - [s.l.] : Elsevier, 8 2020. - 0 : Vol. 0. <http://doi.org/10.1016/j.resuscitation.2020.07.025>

Campos Abraham [et al.] The Association of Death Notification and Related Training with Burnout among Emergency Medical Services Professionals [Journal] // Prehospital Emergency Care. - [s.l.] : Taylor and Francis Ltd, 7 20, 2020. - pp. 1-10. – <http://doi.org/10.1080/10903127.2020.1785599>

Dehn Anja and Snedden Prudence Acute pre-hospital medicine: Perspectives of an emergency medicine fellow and critical care paramedic // EMA - Emergency Medicine Australasia. - [s.l.] : Blackwell Publishing, 8 1, 2020. - Vol. 32. - pp. 670-671. – <http://doi.org/10.1111/1742-6723.13574>

Deighton Robert Musculoskeletal system part 2 [Journal] // Journal of Paramedic Practice. - [s.l.] : MA Healthcare London, 7 2, 2020. - 7 : Vol. 12. - pp. 1-4. – <http://doi.org/10.12968/jpar.2020.12.7.1>

Du Bronson [et al.] Exploring the need for and application of human factors and ergonomics in ambulance design: Overcoming the barriers with technical standards [Journal] // Applied Ergonomics. - [s.l.] : Elsevier Ltd, 10 1, 2020. - Vol. 88. – <http://doi.org/10.1016/j.apergo.2020.103144>

Gunderson Michael R. [et al.] NEMSMA Position Statement and White Paper: Process and Outcomes Data Sharing between EMS and Receiving Hospitals [Journal] // Prehospital Emergency Care. - [s.l.] : Taylor and Francis Ltd, 2020. – <http://doi.org/10.1080/10903127.2020.1792017>

Hooper Jeffrey and Bertenshaw Claire Learning to fly: Training and education in retrieval medicine [Journal] // Emergency Medicine Australasia. - [s.l.] : Blackwell Publishing, 8 11, 2020. - 4 : Vol. 32. - pp. 672-673. – <http://doi.org/10.1111/1742-6723.13576>

Jarvis Jeffrey [et al.] Using Red Lights and Sirens for Emergency Ambulance Response: How Often are Potentially Life-Saving Interventions Performed? [Journal] // Prehospital Emergency Care. - [s.l.] : Prehosp Emerg Care, 2020. - pp. 1-13. – <http://doi.org/10.1080/10903127.2020.1797963>

Kunzler Angela M [et al.] Psychological interventions to foster resilience in healthcare students [Journal] // Cochrane Database of Systematic Reviews. - [s.l.] : Wiley, 7 20, 2020. - 7. – <http://doi.org/10.1002/14651858.cd013684>

Lawn Sharon [et al.] The effects of emergency medical service work on the psychological, physical, and social well-being of ambulance personnel: A systematic review of qualitative research [Journal] // BMC Psychiatry. - [s.l.] : BioMed Central, 7 3, 2020. - 1 : Vol. 20. – <http://doi.org/10.1186/s12888-020-02752-4> **Open Access**

Lederman Jakob [et al.] Non-conveyance in the ambulance service: a population-based cohort study in Stockholm, Sweden [Journal] // BMJ open. - [s.l.] : NLM (Medline), 7 14, 2020. - 7 : Vol. 10. - p. e036659. – <http://doi.org/10.1136/bmjopen-2019-036659> **Open Access**

Leduc Shannon [et al.] The Safety and Effectiveness of On-Site Paramedic and Allied Health Treatment Interventions Targeting the Reduction of Emergency Department Visits by Long-Term Care Patients: Systematic Review [Journal] // Prehospital Emergency Care. - [s.l.] : Taylor and Francis Ltd, 7 20, 2020. - pp. 1-10. – <http://doi.org/10.1080/10903127.2020.1794084>

Long David Nicholas and Hobbs Lisa Standing out from the crowd: improving employability through peer programs and continuing professional development in undergraduate paramedic programs [Journal] // Australasian Journal of Paramedicine. - [s.l.] : Paramedics Australasia, 7 23, 2020. - Vol. 17. – <http://doi.org/10.33151/ajp.17.838> **Open Access**

Man Nicola Wing Young [et al.] Impact of the Four-Hour Rule policy on emergency medical services delays in Australian EDs: a longitudinal cohort study [Journal] // Emergency Medicine Journal. - [s.l.] : BMJ Publishing Group Ltd and the British Association for Accident & Emergency Medicine, 7 15, 2020. - pp. emermed-2019-208958. – <http://doi.org/10.1136/emermed-2019-208958>

Mason Rod, Roodenburg John and Williams Brett What personality types dominate among nurses and paramedics: A scoping review? // Australasian Emergency Care. - [s.l.] : Elsevier Australia, 2020. – <http://doi.org/10.1016/j.auec.2020.06.001>

Mendes Aysha Are you 'enhanced' by your stress? [Journal] // Journal of Paramedic Practice. - [s.l.] : MA Healthcare London , 7 7, 2020. - 7 : Vol. 12. - pp. 261-261. – <http://doi.org/10.12968/jpar.2020.12.7.261>

Mills Brennen [et al.] Virtual Reality Triage Training Can Provide Comparable Simulation Efficacy for Paramedicine Students Compared to Live Simulation-Based Scenarios [Journal] // Prehospital Emergency Care. - [s.l.] : Taylor and Francis Ltd, 7 3, 2020. - 4 : Vol. 24. - pp. 525-536. – <http://doi.org/10.1080/10903127.2019.1676345>

Mulrooney Nicola [et al.] Prehospital sepsis care in Ireland: an audit [Journal] // Journal of Paramedic Practice. - [s.l.] : MA Healthcare London , 7 7, 2020. - 7 : Vol. 12. - pp. 269-276. – <http://doi.org/10.12968/jpar.2020.12.7.269>

Pap Robin [et al.] Development and testing of Australian prehospital care quality indicators: study protocol [Journal] // BMJ Open. - [s.l.] : BMJ Open, 7 31, 2020. - 7 : Vol. 10. - p. e038310. – <http://doi.org/10.1136/bmjopen-2020-038310> **Open Access**

Pearson Yana Discretionary time in pre-hospital and retrieval medicine: Benefits of pre-hospital training // EMA - Emergency Medicine Australasia. - [s.l.] : Blackwell Publishing, 8 1, 2020. - Vol. 32. - p. 675. – <http://doi.org/10.1111/1742-6723.13579>

Prezant David J. [et al.] Medical Leave Associated With COVID-19 Among Emergency Medical System Responders and Firefighters in New York City [Journal] // JAMA Network Open. - [s.l.] : American Medical Association (AMA), 7 24, 2020. - 7 : Vol. 3. - p. e2016094. – <http://doi.org/10.1001/jamanetworkopen.2020.16094>

Svendsen Tuva, Lund-Kordahl Inger and Fredriksen Knut Cabin temperature during prehospital patient transport - a prospective observational study [Journal] // Scandinavian journal of trauma, resuscitation and emergency

medicine. - [s.l.] : NLM (Medline), 7 13, 2020. - 1 : Vol. 28. - p. 64. – <http://doi.org/10.1186/s13049-020-00759-0>

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Taylor Helen and Brogan James Exploring the concept of ‘informed consent’ within the context of paramedic practice [Journal] // Journal of Paramedic Practice. - [s.l.] : MA Healthcare London , 7 7, 2020. - 7 : Vol. 12. - pp. 1-6. – <http://doi.org/10.12968/jpar.2020.12.7.CPD1>

Troyer Lindsay and Brady William Barriers to effective EMS to emergency department information transfer at patient handover: A systematic review // American Journal of Emergency Medicine. - [s.l.] : W.B. Saunders, 7 1, 2020. - Vol. 38. - pp. 1494-1503. – <http://doi.org/10.1016/j.ajem.2020.04.036>

vonRosenberg John Emotional Turmoil and Time Constraints Decrease the Ability of Team Members to Communicate Effectively and Make Decisions [Journal] // Air Medical Journal. - [s.l.] : Elsevier, 7 1, 2020. - 4 : Vol. 39. - p. 245. – <http://doi.org/10.1016/j.amj.2020.05.004>

Prehospital Research – Methods and Discussion

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Calle Paul and Mpotos Nicolas How (not) to prove that a mobile phone-based alerting system has a positive effect on outcome after out-of-hospital cardiac arrest? // Resuscitation. - [s.l.] : Elsevier Ireland Ltd, 8 1, 2020. - Vol. 153. - pp. 272-273. – <http://doi.org/10.1016/j.resuscitation.2020.02.046>

Goralnick Eric [et al.] Defining a Research Agenda for Layperson Prehospital Hemorrhage Control: A Consensus Statement [Journal] // JAMA network open. - [s.l.] : NLM (Medline), 7 1, 2020. - 7 : Vol. 3. - p. e209393. – <http://doi.org/10.1001/jamanetworkopen.2020.9393> **Open Access**

Hensel Mario [et al.] Reply to: How (Not) to prove that a mobile phone-based alerting system has a positive effect on outcome after out-of-hospital cardiac arrest? // Resuscitation. - [s.l.] : Elsevier Ireland Ltd, 8 1, 2020. - Vol. 153. - p. 274. – <http://doi.org/10.1016/j.resuscitation.2020.05.045>

Lu Stephen W. and Spain David A. The Research Agenda for Stop the Bleed: Beyond Focused Empiricism in Prehospital Hemorrhage Control [Journal] // JAMA network open. - [s.l.] : NLM (Medline), 7 1, 2020. - 7 : Vol. 3. - p. e209465. – <http://doi.org/10.1001/jamanetworkopen.2020.9465> **Open Access**

Simpson Paul M Quantifying and evaluating research in paramedicine - why our own field of research code matters. [Journal] // Australasian Journal of Paramedicine. - [s.l.] : Paramedics Australasia, 7 20, 2020. - Vol. 17. – <http://doi.org/10.33151/ajp.17.836> **Open Access**

Tonnerre Erik J [et al.] Patient perceptions of participation in emergency medicine research projects [Journal] // Emergency Medicine Australasia. - [s.l.] : Blackwell Publishing, 8 10, 2020. - 4 : Vol. 32. - pp. 570-572. – <http://doi.org/10.1111/1742-6723.13455>

Wells Mike Ideas and the origin of evidence during the COVID-19 pandemic // Emergency Medicine Journal. - [s.l.] : BMJ Publishing Group, 7 1, 2020. - Vol. 37. - pp. 396-397. – <http://doi.org/10.1136/emered-2020-210000>

Helicopter Emergency Medical Services (HEMS) and Air Medical

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Chakkarapani Aravanan Anbu [et al.] Procedural Interventions and Stabilization Times During Interfacility Neonatal Transport [Journal] // Air Medical Journal. - [s.l.] : Mosby Inc., 7 1, 2020. - 4 : Vol. 39. - pp. 276-282. – <http://doi.org/10.1016/j.amj.2020.04.007>

Dominguez Oscar Hernandez [et al.] Helicopter Transport Has Decreased Over Time and Transport From Scene or Hospital Matters [Journal] // Air Medical Journal. - [s.l.] : Mosby Inc., 7 1, 2020. - 4 : Vol. 39. - pp. 283-290. – <http://doi.org/10.1016/j.amj.2020.04.006>

Franklin Richard C [et al.] Aeromedical retrievals in Queensland: A five-year review [Journal] // Emergency Medicine Australasia. - [s.l.] : Blackwell Publishing, 7 6, 2020. - pp. 1742-6723.13559. – <http://doi.org/10.1111/1742-6723.13559>

Hannon Liam [et al.] Finger thoracostomy in patients with chest trauma performed by paramedics on a helicopter emergency medical service [Journal] // Emergency Medicine Australasia. - [s.l.] : Blackwell Publishing, 8 21, 2020. - 4 : Vol. 32. - pp. 650-656. – <http://doi.org/10.1111/1742-6723.13549>

Hewitt Nikki Marie [et al.] Optimizing the Availability of Enhanced Prehospital Care Team Resources [Journal] // Air Medical Journal. - [s.l.] : Mosby Inc., 2020. - 0 : Vol. 0. – <http://doi.org/10.1016/j.amj.2020.06.003>

Kurtzman Ethan, Baker William and Gluck Jason ECMO Fly/No-Fly: Development of a Triage Tool to Identify ECMO Patients Appropriate for Helicopter Transport [Journal] // Air Medical Journal. - [s.l.] : Elsevier, 7 1, 2020. - 4 : Vol. 39. - p. 244. – <http://doi.org/10.1016/j.amj.2020.05.002>

Moors XRJ [et al.] Analysis of prehospital perimortem caesarean deliveries performed by Helicopter Emergency Medical Services in The Netherlands and recommendations for the future [Journal] // Resuscitation. - [s.l.] : Elsevier, 7 2020. - 0 : Vol. 0. – <http://doi.org/10.1016/j.resuscitation.2020.07.023>

Murphy David L. [et al.] Management of Acute Aortic Dissection During Critical Care Air Medical Transport // Air Medical Journal. - [s.l.] : Mosby Inc., 7 1, 2020. - Vol. 39. - pp. 291-295. – <http://doi.org/10.1016/j.amj.2020.04.017>

Pietsch Urs [et al.] Mechanical chest compression devices in the helicopter emergency medical service in Switzerland [Journal] // Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine. - [s.l.] : Springer Science and Business Media LLC, 12 25, 2020. - 1 : Vol. 28. - p. 71. – <http://doi.org/10.1186/s13049-020-00758-1>

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Vuorinen Pauli [et al.] Prehospital administration of blood products: Experiences from a Finnish physician-staffed helicopter emergency medical service [Journal] // BMC Emergency Medicine. - [s.l.] : BioMed Central, 7 7, 2020. - 1 : Vol. 20. – <http://doi.org/10.1186/s12873-020-00350-x> **Open Access**

Wisborg Torben and Friberg Hans Ambulance helicopters for every emergency [Journal] // Acta Anaesthesiologica Scandinavica. - [s.l.] : Wiley, 7 20, 2020. – <http://doi.org/10.1111/aas.13676>

Diagnosis and Triage

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Alghamdi Abdulrhman [et al.] Diagnostic Performance of Prehospital Point-of-Care Troponin Tests to Rule Out Acute Myocardial Infarction: A Systematic Review [Journal] // Prehospital and Disaster Medicine. - [s.l.] : Prehosp Disaster Med, 2020. - pp. 1-7. – <http://doi.org/10.1017/S1049023X20000850>

Aronson Paul L. [et al.] Development of an App to Facilitate Communication and Shared Decision-Making with Parents of Febrile Infants ≤60 Days Old [Journal] // Academic Emergency Medicine. - [s.l.] : John Wiley & Sons, Ltd, 7 9, 2020. - p. acem.14082. – <http://doi.org/10.1111/acem.14082>

Birnbaum Lee [et al.] Paramedic utilization of Vision, Aphasia, Neglect (VAN) stroke severity scale in the prehospital setting predicts emergent large vessel occlusion stroke [Journal] // Journal of NeuroInterventional Surgery. - [s.l.] : J Neurointerv Surg, 2020. - pp. neurintsurg-2020-016054. – <http://doi.org/10.1136/neurintsurg-2020-016054>

Cook Arron The ‘s’ word: a killer, or just a way infection can kill? [Journal] // Journal of Paramedic Practice. - [s.l.] : MA Healthcare London , 7 7, 2020. - 7 : Vol. 12. - pp. 286-288. – <http://doi.org/10.12968/jpar.2020.12.7.286>

Cully Matthew [et al.] Exhaled end-tidal carbon dioxide as a predictor of lactate and pediatric sepsis [Journal] // The American Journal of Emergency Medicine. - [s.l.] : Elsevier, 8 2020. - 0 : Vol. 0. – <http://doi.org/10.1016/j.ajem.2020.07.075>

DeCou Christopher R. [et al.] Prehospital Patient Care Protocols for Suicidality in Washington State [Journal] // Prehospital Emergency Care. - [s.l.] : Taylor and Francis Ltd, 6 23, 2020. - pp. 1-6. – <http://doi.org/10.1080/10903127.2020.1771489>

Guillory Blake C. [et al.] Can Prehospital Personnel Accurately Triage Patients for Large Vessel Occlusion Strokes? [Journal] // Journal of Emergency Medicine. - [s.l.] : Elsevier USA, 6 1, 2020. - 6 : Vol. 58. - pp. 917-921. – <http://doi.org/10.1016/j.jemermed.2020.01.015>

Hoyle Antonia C, Biant Leela C and Young Mike Undertriage of the elderly major trauma patient continues in major trauma centre care: a retrospective cohort review [Journal] // Emergency Medicine Journal. - [s.l.] : BMJ, 6 16, 2020. - 8 : Vol. 37. - pp. emermed-2019-208541. – <http://doi.org/10.1136/emered-2019-208541> **NHS**

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Ivic Robert [et al.] Serious conditions among patients with non-specific chief complaints in the pre-hospital setting: a retrospective cohort study [Journal] // Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine. - [s.l.] : BioMed Central, 12 29, 2020. - 1 : Vol. 28. - p. 74. – <http://doi.org/10.1186/s13049-020-00767-0> **Open Access**

Johannessen Tonje R [et al.] Pre-hospital One-Hour Troponin in a Low-Prevalence Population of Acute Coronary Syndrome: OUT-ACS study [Journal] // Open Heart. - [s.l.] : BMJ, 7 2020. - 2 : Vol. 7. - p. e001296. – <http://doi.org/10.1136/openhrt-2020-001296> **Open Access**

Jouffroy R [et al.] Triage of Septic Patients Using qSOFA Criteria at the SAMU Regulation: A Retrospective Analysis. [Journal] // Prehospital emergency care : official journal of the National Association of EMS Physicians and the National Association of State EMS Directors. - [s.l.] : Taylor and Francis Ltd, 1 2, 2018. - 1 : Vol. 22. - pp. 84-90. – <http://doi.org/10.1080/10903127.2017.1347733>

Koivulahti Outi, Tommila Miretta and Haavisto Elina The accuracy of preliminary diagnoses made by paramedics - a cross-sectional comparative study [Journal] // Scandinavian journal of trauma, resuscitation and emergency medicine. - [s.l.] : NLM (Medline), 7 23, 2020. - 1 : Vol. 28. - p. 70. – <http://doi.org/10.1186/s13049-020-00761-6> **Open Access**

Lally Joanne [et al.] Paramedic experiences of using an enhanced stroke assessment during a cluster randomised trial: a qualitative thematic analysis [Journal] // Emergency Medicine Journal. - [s.l.] : BMJ, 6 16, 2020. - 8 : Vol. 37. - pp. emermed-2019-209392. – <http://doi.org/10.1136/emered-2019-209392> **NHS OpenAthens**

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Lubman Dan I. [et al.] National Ambulance Surveillance System: A novel method using coded Australian ambulance clinical records to monitor self-harm and mental health-related morbidity [Journal] // PLOS ONE / ed. Wong Ho Ting. - [s.l.] : PLoS One, 7 31, 2020. - 7 : Vol. 15. - p. e0236344. – <http://doi.org/10.1371/journal.pone.0236344>

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Martín-Rodríguez Francisco [et al.] Accuracy of prehospital point-of-care lactate in early in-hospital mortality [Journal] // European Journal of Clinical Investigation. - [s.l.] : Eur J Clin Invest, 2020. – <http://doi.org/10.1111/eci.13341>

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Molnar Kate, Walczynski Tracy and Harris Daniel Clinical reasoning in resource limited settings: The realities of a remote medical retrieval service [Journal] // Emergency Medicine Australasia. - [s.l.] : Blackwell Publishing, 7 7, 2020. - pp. 1742-6723.13568. – <http://doi.org/10.1111/1742-6723.13568>

Nielsen Frederikke Vestergaard [et al.] Non-specific diagnoses are frequent in patients hospitalized after calling 112 and their mortality is high - a register-based Danish cohort study [Journal] // Scandinavian journal of trauma, resuscitation and emergency medicine. - [s.l.] : NLM (Medline), 7 22, 2020. - 1 : Vol. 28. - p. 69. – <http://doi.org/10.1186/s13049-020-00768-z> **Open Access**

O'Connor Laurel [et al.] Measuring Agreement Among Prehospital Providers and Physicians in Patient Capacity Determination [Journal] // Academic Emergency Medicine / ed. Asher Shellie. - [s.l.] : Blackwell Publishing Inc., 7 11, 2020. - 7 : Vol. 27. - pp. 580-587. – <http://doi.org/10.1111/acem.13941>

Puzio Thaddeus J, Kalkwarf Kyle and Cotton Bryan A Predicting the need for massive transfusion in the prehospital setting [Journal] // Expert Review of Hematology. - [s.l.] : Expert Rev Hematol, 8 4, 2020. - p. 17474086.2020.1803735. – <http://doi.org/10.1080/17474086.2020.1803735>

Rodríguez-Pardo Jorge [et al.] Contraindications to intravenous thrombolysis in prehospital triage of thrombectomy candidates [Journal] // European Journal of Neurology. - [s.l.] : Eur J Neurol, 2020. – <http://doi.org/10.1111/ene.14429>

Uchida Kazutaka [et al.] Simplified Prehospital Prediction Rule to Estimate the Likelihood of 4 Types of Stroke: The 7-Item Japan Urgent Stroke Triage (JUST-7) Score [Journal] // Prehospital Emergency Care. - [s.l.] : Informa UK Limited, 7 23, 2020. - pp. 1-14. – <http://doi.org/10.1080/10903127.2020.1800877>

van Dongen Dominique N. [et al.] Accuracy of pre-hospital HEART score risk classification using point of care versus high sensitive troponin in suspected NSTEMI-ACS [Journal] // American Journal of Emergency Medicine. - [s.l.] : W.B. Saunders, 8 1, 2020. - 8 : Vol. 38. - pp. 1616-1620. – <http://doi.org/10.1016/j.ajem.2019.158448>

Vassallo James, Fuller Gordon and Smith Jason E Relationship between the Injury Severity Score and the need for life-saving interventions in trauma patients in the UK [Journal] // Emergency Medicine Journal. - [s.l.] : BMJ, 7 6, 2020. - 8 : Vol. 37. - pp. emermed-2019-209092. – <http://doi.org/10.1136/emermed-2019-209092> **NHS**

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Wallgren Ulrika Margareta [et al.] The predictive value of variables measurable in the ambulance and the development of the Predict Sepsis screening tools: a prospective cohort study [Journal] // Scandinavian journal of trauma, resuscitation and emergency medicine. - [s.l.] : NLM (Medline), 6 25, 2020. - 1 : Vol. 28. - p. 59. – <http://doi.org/10.1186/s13049-020-00745-6> **Open Access**

Wattanasit Prangsai and Khwannimit Bodin Comparison the accuracy of early warning scores with qSOFA and SIRS for predicting sepsis in the emergency department [Journal] // The American Journal of Emergency Medicine. - [s.l.] : Elsevier, 8 2020. - 0 : Vol. 0. – <http://doi.org/10.1016/j.ajem.2020.07.077>

Patient Profile

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Further Research Needed ...

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Bennett Ryan, Mehmed Niall and Williams Brett Non-technical skills in paramedicine: A scoping review [Journal] // Nursing & Health Sciences. - [s.l.] : Nurs Health Sci, 7 31, 2020. - p. nhs.12765. – <http://doi.org/10.1111/nhs.12765>

CONCLUSION: This scoping review identified 26 non-technical skills that had been investigated in the paramedic literature to create the first list of empirically-based desirable non-technical skills for a paramedic. **Subsequently, research can then begin to focus on identifying the link that these have to paramedic practice and patient safety.**

Lally Joanne [et al.] Paramedic experiences of using an enhanced stroke assessment during a cluster randomised trial: a qualitative thematic analysis [Journal] // Emergency Medicine Journal. - [s.l.] : BMJ, 6 16, 2020. - 8 : Vol. 37. - pp. emermed-2019-209392. – <http://doi.org/10.1136/emermed-2019-209392>

CONCLUSION: Paramedics believed that the PASTA pathway enhanced their skills and the emergency care of stroke patients, but a continuing clinical role postadmission was challenging. **Future studies should consider whether interdisciplinary training is needed to enable more radical extension of professional boundaries for paramedics.**

Whitley Gregory Adam [et al.] Predictors of effective management of acute pain in children within a UK ambulance service: A cross-sectional study [Journal] // American Journal of Emergency Medicine. - [s.l.] : W.B. Saunders, 7 1, 2019. - 7 : Vol. 38. - pp. 1424-1430. – <http://doi.org/10.1016/j.ajem.2019.11.043>

CONCLUSION: These predictors highlight disparity in effective pre-hospital management of acute pain in children. **Qualitative research is needed to help explain these findings.**

Hoyle Antonia C, Biant Leela C and Young Mike Undertriage of the elderly major trauma patient continues in major trauma centre care: a retrospective cohort review [Journal] // Emergency Medicine Journal. - [s.l.] : BMJ, 6 16, 2020. - 8 : Vol. 37. - pp. emermed-2019-208541. – <http://doi.org/10.1136/emered-2019-208541>

CONCLUSION: Older major trauma patients are at greater risk of undertriage, even in the MTC (major trauma centre) environment. **Existing hospital trauma triage practices should be further investigated to explain and reduce undertriage of elderly trauma patients.**

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London Ambulance Service	eMail: CARU.Administrator@lond-amb.nhs.uk	Document Supply, Research