



# North East London & Essex Trauma Network

## NELETN Education strategy

### Introduction

Each year within the London Trauma system, 25% of severely injured and 35-40% of moderately injured patients are taken primarily to Trauma Units (TARN, 2021). Therefore nurses, AHPs and clinical staff working in these units require training and support to ensure they are equipped to manage these patients. It is the responsibility of each Trauma Unit within NELETN to ensure that their staff are trained accordingly. The Network is committed to supporting all its Trauma Units in ensuring their staff groups are trained to the standard outlined in this document. In order to achieve this, NELETN will strive to:

- Ensure all Trauma Units are supported to train all Nurses and Allied Health Professional's to relevant standard as outlined by the National Major Trauma Nursing Group (NMTNG)
- Support and encourage all Trauma Units to plan and implement a Level 1 NMTNG course, mapped against the level 1 competencies
- Support and encourage all Trauma Units to develop bespoke study days relevant to their staff needs for example, Trauma Team Members, Older Trauma etc. and offer these out to the Network should they so wish
- Support and encourage all Trauma Units to ensure staff caring for spinal injured patients are trained and competent to do so
- Support and encourage all Trauma Units to ensure staff caring for children with traumatic injuries are trained to APLS standard as required by QSI
- Encourage links between Trauma Units to plan, develop and implement training courses to support staff to achieve competence
- Encourage the sharing of knowledge within the Network to aid development of training programmes to support staff to achieve competence
- Develop bespoke courses for the Network to support learning in areas where local training is limited
- Have a dedicated Trauma Nursing Lead to support and guide Trauma Units in achieving relevant educational standards for nursing staff
- Have a dedicated Rehabilitation Lead to support and guide Trauma Units in achieving relevant educational standards for Allied Health Professionals

## Nursing

The National Major Trauma Nursing Group (NMTNG) have developed educational and competency standards from Junior Nurse/AHP through to Advanced Clinical Practitioner in the wide range of trauma settings. These competencies should be used as a benchmark to work by with their achievement as a standard to work towards. A minimum of 8 hours face to face trauma education per year for all nursing and allied health professionals who are part of the trauma team is recommended (NHS England, 2013). However, due to the difficulties with face to face education post COVID, training in theory can acceptably be delivered virtually. Skills training should be practiced, and staff should be assessed as competent therefore not all training is suitable to be carried out remotely.

For reference, throughout this document the competencies discussed have been written and designed by the National Major Trauma Nursing Group (NMTNG). For more information on the NMTNG and to find all their relevant competencies outlined, please visit their website at <http://www.nmtng.co.uk/home.html>

### Adult Emergency Nursing

#### Competencies

There are 3 levels of standards of competency for nurses to work towards (figure 1). Each Trauma Unit should evidence the following at each peer review:

- That all nursing/AHP staff caring for a trauma patient should have attained the competency and educational standard of level 1
- That TU's must have a nurse/AHP available for major trauma 24/7 who has successfully attained or is working towards the adult competency and educational standard of level 2

Levels 1 - 3 adult and paediatric educational and competency standards		
Level	Educational standard	Competency standard
Level 1	Has attended a trauma educational programme, such as: <ul style="list-style-type: none"> <li>• Trauma Immediate Life Support (TILS)</li> <li>• ATLS observer</li> <li>• ETC nurse/AHP observer</li> <li>• In-house trauma education programme</li> </ul>	Assessed as competent in all domains of the NMTNG competency framework at level 1.
Level 2	In addition to level 1:  Successful completion of a recognised trauma course: <ul style="list-style-type: none"> <li>• Advanced Trauma Nursing Course (ATNC)</li> <li>• Trauma Nursing Core Course (TNCC)</li> <li>• European Trauma Course (ETC)</li> </ul> When undertaken as a full provider only.  <b>Or</b>  Successful completion of a bespoke trauma course which has been assessed as compliant, by peer review, in meeting the NMTNG curriculum and assessment criteria.	In addition to level 1:  Assessed as competent in all domains of the NMTNG competency framework at level 2.
Level 3	In addition to level 2:  Advanced Clinical Practitioner (ACP): Masters level education in advanced practice to at least PGDip level	In addition to level 2:  Successful completion of and credentialing by the Royal College of Emergency Medicine - Emergency Care Advanced Clinical Practitioner Curriculum and Assessment.

Figure 1. (NMTNG, 2016)

It must be noted that attending a course/study day alone is not sufficient to measure competency, it is the additional assessment of competence in practice which is also required. Trauma Units should be able to provide evidence of competency assessment in practice, such as copies of completed competency documents. NELETN acknowledges that new staff into post may not have been trained/competency assessed. The standard outlined by the NMTNG is – *Level 1 competence*

*achieved within 12 months of commencing work in an Emergency Department. This is in addition to the 12-month preceptorship period (NMTNG, 2016)*

### Level 1

It is the responsibility of each Trauma Unit to either develop their own in-house Level 1 trauma education programme or to source an education programme within the Network for staff. All Trauma Units should provide a Level 1 study day/course to Emergency Nurses on a yearly basis. The day should be mapped against the NMTNG competency framework. Competencies can be signed off during the study day and by working alongside the Nurse with the department using discussion and observation of skills.

**Staff Group:** All Emergency Nurses caring for trauma patients (Band 5 and above) within 12 months of commencing in the Emergency Department.

**Courses:** The following courses are recognised as Level 1 courses by the NMTNG:

- Advanced Trauma Life Support (ATLS) observer <https://www.rcseng.ac.uk/education-and-exams/courses/search/advanced-trauma-life-support-atls-provider-programme/>
- European Trauma Course Nurse/AHP observer <http://www.europeantrauma.com/>
- Trauma Intermediate Life Support or in-house education programme

### Level 2

**Staff Group:** Senior Emergency Nurses (Band 6 and above) within 36 months of commencing in the Emergency Department.

**Courses:** The following courses are recognised as Level 2 courses by the NMTNG:

- Advanced Trauma Nursing Course (ATNC) <http://www.atncllearning.org.uk>
- Trauma Nursing Core Course (TNCC) <http://www.traumanursing.org.uk/en/>
- European Trauma Course (ETC) <http://www.europeantrauma.com/>  
When undertaken as a full provider only

The Royal London Hospital has a course entitled 'Nurse One' which has been recently been accredited and therefore is now also accepted as a Level 2 equivalent course. It should be noted that other courses are currently being looked at to be accredited in the near future also. Please note that attending these courses as an observer do not meet the standard and therefore are not counted as equivalence.

### Level 3

**Staff Group:** To be considered Level 3 competent, the Nurse/AHP must be educated either to:

- The level of Advanced Clinical Practitioner
- A MSc in advanced practice to at least PGDip

This is in addition to attending a Level 2 course as outlined above.

## Paediatric Emergency Nursing

Paediatric Nurses working in the Emergency Department are required to attain Level 1 competence within 12 months of starting in the department (NMTNG, 2016). As per Adult Emergency Nursing, Level 1 competence is the responsibility of the Trauma Unit and can be attained via a trauma educational programme such as 'TILS' (figure 1).

The Major Trauma Services Quality Indicators for adult and paediatric settings state that there must be a registered paediatric nurse/AHP who has attained the level 2 education and competency standard available for paediatric major trauma patients 24/7. The competencies follow the same NMTNG guideline as with Adult Nursing (figure 1).

Currently, for Paediatrics the only Paediatric course recognised as a Level 2 course is:

- Advanced Paediatric Life Support (APLS) <https://www.rcpch.ac.uk/education-careers/courses/rcpch-endorsed-course/advanced-life-support-group-alsg-advanced>

## Adult Ward Nursing

### Level 1

The NMTNG propose the following regarding Adult Ward nursing in trauma: *There should be a ward-based nurse involved in the care of adult trauma patients 24/7 who has attained the competency standard of Level 1* (as described in the National Major Trauma Nursing Group guidance, 2016). The NMTNG (2018) state that staff should achieve competence within 12 months of commencing work in a clinical area that cares for major trauma patients.

- Trauma Care After Resus (TCAR) and Paediatric Care After Resus (PCAR)  
At present, there is no accredited major trauma ward skills course. However, work ongoing since 2020 has brought the Trauma Care After Resus (TCAR) course to the UK from the USA. The course is currently run virtually over 2 days and has been adapted for UK audiences. Although not currently accredited, NELETN recommends this course for both Nurses and AHPS working on the wards and caring for trauma patients going forward. Details of the course can be found here: <https://tcarprograms.visionem.org/>

## Children and Young People

Currently there is no nationally recognised course available for Children's Nurses caring for trauma. However, NELETN and the NMTNG acknowledge there are internal courses/study days and University based courses/study days that can support learning. In terms of meeting competence, it is up to the TU to decide the most appropriate method of learning for each Nurses individual need. The NMTNG (2018) state that staff should achieve competence within 12 months of commencing work in a clinical area that cares for major trauma patients.

- Paediatric Care After Resus (PCAR)  
Work ongoing since 2020 has brought the Paediatric Care After Resus (PCAR) course to the UK from the USA. The course is currently run virtually over 2 days and has been adapted for UK audiences. Although not currently accredited, NELETN recommends this course for both Nurses and AHPS working on the wards and caring for trauma patients going forward. Details of the course can be found here: <https://tcarprograms.visionem.org/>

## Adult Critical Care Trauma Nursing

The competencies are for use by all critical care facilities that receive trauma patients. It is up to each facility to identify which competencies are relevant and achievable as there may be variance between TU's. It is recognised by the NMTNG that some areas highlighted may be rarely seen so may need to be assessed using simulations or discussion. The NMTNG (2018) state that staff should achieve competence within 12 months of commencing work in a clinical area that cares for major trauma patients.

- Trauma Care After Resus (TCAR) and Paediatric Care After Resus (PCAR)  
At present, there is no accredited major trauma critical care skills course. However, work ongoing since 2020 has brought the Trauma Care After Resus (TCAR) course to the UK from the USA. The course is currently run virtually over 2 days and has been adapted for UK

audiences. Although not currently accredited, NELETN recommends this course for both Nurses and AHPS working on the wards and caring for trauma patients going forward. Details of the course can be found here: <https://tcarprograms.visionem.org/>

## Paediatric Critical Care Trauma Nursing

The competencies are for use by all paediatric critical care facilities that receive trauma patients. It is up to each facility to identify which competencies are relevant and achievable as there may be variance between TU's. It is recognised by the NMTNG that some areas highlighted may be rarely seen so may need to be assessed using simulations or discussion. The NMTNG (2018) state that staff should achieve competence within 12 months of commencing work in a clinical area that cares for major trauma patients.

- **Paediatric Care After Resus (PCAR)**  
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## Other Trauma Education

### Stand-alone study days

NELETN is committed to shared learning and encourages Trauma Units to support neighbouring TUs with education programmes. NELETN will endeavour to help guide and support TUs in order to develop relevant programmes of learning.

Study days that are recommended within the Network are:

**Advanced Paediatric Trauma** – a day of simulation-based training to develop knowledge and skills required to care for paediatric trauma patients (please contact specific institution for staff suitability)

**Trauma Team Members** – a realistic trauma team assembles on the day with the students playing the role they would do in clinical practice (suitable for medical staff, Nurses, ODP/ODA's and radiographers)

**Trauma Team Leaders** – knowledge and skills gained from attending a trauma provider course will be developed into those required to be an effective trauma team leader (suitable for Doctors or Senior Nurses)

**Older Trauma** – a day of simulation-based training to develop knowledge and skills required to care for elderly trauma patients (please contact specific institution for staff suitability)

NELETN is always striving to develop bespoke training for TUs where local training opportunities are limited. One such course is the Network delivered Spinal Study Day which will be running from the summer of 2021.

For more information on how to access all these courses, please see the NELETN website at: [www.neletn.nhs.uk/news-updates-9](http://www.neletn.nhs.uk/news-updates-9)

### Simulation

In order to develop learned skills through education programmes, it is vital to maintain this through practice. Simulation/moulage is an important tool to aid this and can also develop teamwork,

highlight any issues and identify any need for further training. NELETN will endeavour to support any Trauma Units needing assistance developing a simulation programme.

### WingFactors

WingFactors is an educational organisation borne from Project Wingman; working in collaboration with the NHS to develop human factors training within simulation. To find out more, visit their website at <https://wingfactors.co.uk/>

### Webinars

#### TRAUMAtalks

The Royal London Hospital and NELETN has a programme of multidisciplinary webinars on aspects of trauma care from roadside to rehabilitation given by leaders in their respective fields. They are held bi-weekly on a Thursday. Links to further details and previous videos can be found here <https://www.c4ts.qmul.ac.uk/education-outreach/trauma-talks> and on the NELETN website.

#### Trauma Care

Trauma Care holds webinars on a variety of trauma-based subjects. These can be watched for free and count towards CPD hours. For further information on past and future webinars, please follow the link here <https://www.traumacare.org.uk/webinars>

#### Trauma Lates

Trauma Lates are part of the Trauma Science and Care of the Injured Patient Programme (TSCIPP) and are run by The Centre for Trauma Sciences (C4TS). Anyone with a clinical background is welcome to attend the sessions. To be added to the mailing list, please email [tscipp@qmul.ac.uk](mailto:tscipp@qmul.ac.uk). The website for Trauma Lates is here: <https://www.c4ts.qmul.ac.uk/education-outreach/trauma-lates>

## Post Graduate Education

For those who would like to explore further education in trauma, Queen Mary University of London runs a range of MSc programmes with trauma components including:

- MSc Trauma Sciences
- MSc Trauma Sciences (Military and Humanitarian)
- MSc Orthopaedic Trauma Science
- MSc Emergency Medicine and Resuscitation
- MSc Prehospital Medicine

For more information, search the MSc title here:

<https://search.qmul.ac.uk/s/search.html?collection=queenmary-coursefinder-pg&query=&sort=title>

## Allied Health Professionals

As a group of many professions, each having very separate core training & educational needs, the training requirements & priorities for AHP's working in trauma are complex. For example, the training needs of a dietitian working in Trauma are very different to that of an OT or Neuro Psychologist. In addition, therapists tend to gravitate to one of the subspecialties rather than become an overall 'trauma' therapist. e.g., SLT in Neurology & Neurosurgery, within which they will see some trauma.

For this reason, it's difficult to develop an overarching course like TCAR or TORCH that would appeal across the board. That being said, there are definite benefits for therapists who work with trauma patients on a regular basis undertaking such courses as TCAR which may provide elements of trauma specific education that may not be covered elsewhere.

In addition, the following short courses, training and education are available for AHP's. If there is a topic that you feel is not covered that the network could assist with, please contact [anna.sweeney@nhs.net](mailto:anna.sweeney@nhs.net) and [Hannah.kosuge@nhs.net](mailto:Hannah.kosuge@nhs.net), who would be keen to discuss additional training needs.

### Major Trauma Rehabilitation Training

Aimed at AHPs working with trauma patients across a variety of settings and held over 3 days. For more information, please contact Natalie Marroney at [Natalie.marroney@nhs.net](mailto:Natalie.marroney@nhs.net)  
Course resources can be found here: <https://www.c4ts.qmul.ac.uk/education-and-training/trauma-education-and-training-for-therapists>

### Queen Marys Hospital Roehampton Amputation Training

Either a 2 day or 4 day course run once a year for Nurses and AHPs working with amputees on a regular basis. For more information, please contact [sarah.smith2@stgeorges.nhs.uk](mailto:sarah.smith2@stgeorges.nhs.uk)

### Trauma Care After Resus (TCAR) and Paediatric Care After Resus (PCAR)

Work ongoing since 2020 has brought the Trauma Care After Resus (TCAR) course to the UK from the USA. The course is currently run virtually over 2 days and has been adapted for UK audiences. Although not currently accredited, NELETN recommends this course for both Nurses and AHPS working on the wards and caring for trauma patients going forward. Details of the course can be found here: <https://tcarprograms.visionem.org/>.  
Feedback has been individually sought from therapists who have attended TCAR to ascertain its appropriateness. This feedback can be shared on request.

### Spinal Injuries Association (SIA)

There is a section on the SIA website dedicated to virtual training sessions for Healthcare Professionals. The website can be found here: <https://www.spinal.co.uk/learn/healthcare-professional-study-days/>

elearnSCI.org

E-learning website on the management and rehabilitation of individuals with spinal cord injury for all relevant roles. The website can be found here: [www.elearnsoci.org](http://www.elearnsoci.org)

### NELETN Spinal Study Day

Aimed at both Nurses and AHPs caring for trauma patients, this is a new study day starting in the summer of 2021. More details can be found on the NELETN website.

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- MSc Emergency Medicine and Resuscitation
- MSc Prehospital Medicine

For more information, search the MSc title here:

<https://search.qmul.ac.uk/s/search.html?collection=queenmary-coursefinder-pg&query=&sort=title>

## Medical Staff

Doctors are expected to ensure that they have the necessary skills to carry out the duties expected of them and to retain those skills by engaging in regular Continuing Medical Education at an appropriate level. This is reviewed through the Appraisal process - or Annual Review of Competence Progression for trainees.

Trauma Units should identify those trainees that require current trauma competencies to complete their role. This may include ATLS / APLS or TTM / TTL courses for trainees in Emergency Medicine, Anaesthetics/ICM, General Surgery, Orthopaedics, Paediatrics or other specialties that might contribute at a specific site (Neurosurgery, Cardiothoracics, Vascular, Elderly Care).

Trauma Units should identify those senior doctors that require current trauma competencies to complete their role. This may include ATLS / APLS / TTL courses for Emergency Medicine, Anaesthesia/ICM, Paediatrics or DCS/DCOS for General Surgery, Orthopaedics. This should be identified through Job Planning and resources made available for skills retention.

Various targeted training opportunities are made available ad hoc through the trauma network, many of these are cost free or subsidised/funded at network level, but there should not be an expectation that NELETN will provide all the training required for the maintenance of operative competency across all sites and specialties.

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|---|
| <ul style="list-style-type: none"><li>• Advanced Trauma Life Support (ATLS) <a href="https://www.rcseng.ac.uk/education-and-exams/courses/search/advanced-trauma-life-support-atls-provider-programme/?gclid=EAlaIqobChMIkOjh3PSo8AIVkLrtCh2Vpg4YEAAAYASAAEglwjd_BwE">https://www.rcseng.ac.uk/education-and-exams/courses/search/advanced-trauma-life-support-atls-provider-programme/?gclid=EAlaIqobChMIkOjh3PSo8AIVkLrtCh2Vpg4YEAAAYASAAEglwjd_BwE</a></li></ul>   |
| <ul style="list-style-type: none"><li>• Advanced Paediatric Life Support (APLS) <a href="https://www.alsg.org/coursedates/courseview.php?coursetype=APLS">https://www.alsg.org/coursedates/courseview.php?coursetype=APLS</a></li></ul>   |
| <ul style="list-style-type: none"><li>• Trauma Team Members Course (TTM) <a href="mailto:RLH_SIM_ADMIN@bartshealth.nhs.uk">RLH_SIM_ADMIN@bartshealth.nhs.uk</a></li></ul>   |
| <ul style="list-style-type: none"><li>• Trauma Team Leaders Course (TTL) <a href="mailto:RLH_SIM_ADMIN@bartshealth.nhs.uk">RLH_SIM_ADMIN@bartshealth.nhs.uk</a></li></ul>   |
| <ul style="list-style-type: none"><li>• TALONS (Trauma London Surgery) is an interactive, scenario-based surgical webinar series focusing on life threatening injuries and damage control techniques (vascular/organ/structural injuries rather than orthopaedic trauma). It is delivered by experienced trauma surgeons from the LMTS with a focus on real-life cases and surgical approaches. TALONS is free to all surgical trainees, middle grades and any surgeons managing polytrauma patients - see <a href="https://www.londontraumaschool.com/">https://www.londontraumaschool.com/</a> for more information</li></ul> |
| <ul style="list-style-type: none"><li>• TORCH: TRAUMA ORCHESTRATION OF CONTINUING HEALTHCARE<br/>Aimed at CT1-3 or ST3-6 delivering on-going care to injured patients. The TORCH course will teach you how to lead, coordinate and cohere the care that complex polytrauma patients require post-critical care. see <a href="https://www.londontraumaschool.com/">https://www.londontraumaschool.com/</a> for more information</li></ul>  |
| <ul style="list-style-type: none"><li>• Neurotrauma Imaging Course based at RLH for radiology consultants and trainees. Provides an approach to CT imaging interpretation. <a href="https://www.londonneuroradiologycourses.com/copy-of-spinal">https://www.londonneuroradiologycourses.com/copy-of-spinal</a></li></ul>  |

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For more information, search the MSc title here:

<https://search.qmul.ac.uk/s/search.html?collection=queenmary-coursefinder-pg&query=&sort=title>

## TARN

It is a national requirement that every TU and MTC submit data to the Trauma Audit Research Network (TARN). The TARN coordinator role can be fulfilled by clinical or non-clinical staff and is met in various successful ways throughout the network. TARN training has moved from face to face to online due to Covid-19 restrictions and they will provide up to 6 virtual courses a year for free per hospital via training credits.

Details for booking the below TARN courses, as well as many other useful resources can be found on the TARN website here <https://www.tarn.ac.uk/Content.aspx?ca=6>

### **TARN Foundation Course**

All TARN coordinators are expected to complete the TARN Foundation Course prior to submitting cases to the database. This covers essential information about TARN inclusion criteria, how to identify cases, the data entry system, data quality and AIS and ISS calculation.  
Cost - 1 training credit or £95 per person

### **TARN Reporting Course**

This session is not essential however it is recommended by NELETN for TARN Coordinators as well as all Trauma Directors and Trauma Managers. The session covers TARN Analytics, data quality & validation, measuring trauma outcomes, reviewing national targets and dashboard and clinical reports. This session will provide TARN users with the knowledge and confidence to review their TARN submissions and run reports in order to not only measure performance but to also enhance and improve care pathways and processes.  
Cost - 1 training credit or £50 per person

### **NELETN TARN Training**

NELETN Coordinator, Andrea Smith, can provide ad hoc training sessions and support with TARN reporting and Analytics to individual coordinators or small groups. Contact [andrea.smith8@nhs.net](mailto:andrea.smith8@nhs.net) to arrange.

## Prehospital

### LAA Clinical Governance Day

London's Air Ambulance has a Clinical Governance Day (CGD) every first Thursday of the month. Some of the days are closed but majority are open. They are currently virtual with the intention to return to F2F as soon as guidelines allow. If anyone would like to attend, you can email Demi Walsh on [d.walsh@londonsairambulance.co.uk](mailto:d.walsh@londonsairambulance.co.uk) and she will provide you with the link to join.

### Prehospital MSc

This brand new, innovative degree programme follows the hugely successful Intercollegiate BSc in Pre-Hospital Medicine. It is run in partnership with Queen Mary University of London and is delivered at Barts and The London School of Medicine. The MSc aims to prepare established clinicians for the challenges of the advanced practice of pre-hospital medicine. Alongside interpretation and application of scientific data students will demonstrate knowledge in the full range of specific subject areas, such as toxicology, anatomy, resuscitation and law and ethics. They will solve clinically related dilemmas using a detailed understanding of core science and will analyse how this is relevant to the interpretation of clinical diagnosis.  
<https://www.iophc.co.uk/education/msc-pre-hospital-medicine>

### LAA HEMS Talks

Frank Chege is LAA's Patient Liaison nurse and can help to organise training and/or debriefs. He can help teams to understand when and why a patient is brought to a TU, rather than an MTC. To arrange a visit Frank is happy to be contacted directly on [f.chege@londonsairambulance.org.uk](mailto:f.chege@londonsairambulance.org.uk)

### EHAAT Clinical Governance Day

The EHAAT clinical governance day is held on the 3<sup>rd</sup> Tuesday every month, virtually via zoom until full covid restrictions lift. Then physical attendance at North Weald. If you are interested in attending, please email Deborah Cooper [deborah.cooper@ehaat.org](mailto:deborah.cooper@ehaat.org) for information.

Currently there are around 100 people engaging with these days, which are a mix of education and governance. Colleagues working within trauma and throughout NELETN are very welcome to join.

### EHAAT Death & Disability Day

This meeting is held on the 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> Tuesday of the month, virtually, via zoom until full covid restrictions lift. Then physical attendance at North Weald.

These days include:

- A formal and in-depth appraisal of highlighted missions.
- Looking at all aspects from activation to returning to base.
- CRM, clinical care, handover etc are all critiqued.

This is a semi-closed meeting, however if any receiving hospital wishes to join to discuss a patient, we took to them that could be arranged. There may be queries on our care or handover of the patient etc. Admission would be restricted to that hospital/ EHAAT/Patient missions and not a general admission.

### London Ambulance Service (LAS) Education

As an extremely large, Pan-London organisation with staff numbering into the thousands, it is very difficult for LAS to provide additional resource for network staff to attend governance or other LAS-wide meetings. However, clinical practice manager and advanced paramedic, Mark Faulkner, would be happy to hear from any network team who have specific learning needs that LAS could contribute to. Mark is happy to be contacted directly on [mark.faulkner4@nhs.net](mailto:mark.faulkner4@nhs.net).

## References

1. NHS England (2016) *National Service Specification for Major Trauma D15/S/a*. Available at: <https://www.england.nhs.uk/wp-content/uploads/2014/04/d15-major-trauma-0414.pdf>
2. www.tarn.ac.uk, (2021) *Trauma Audit and Research Network's Official Website* [online] Available at: <https://www.tarn.ac.uk/Home.aspx> [Accessed 10 June, 2021].
3. The National Major Trauma Nursing Group (2016) *Levels 1-3 Adult and Paediatric Emergency Trauma Nurse/AHP Educational and Competency Standards*. Available at: <http://nebula.wsimg.com/4b710cb35a7fb8b53d6fee4d52287f67?AccessKeyId=3902D5FF5C6A88146946&disposition=0&alloworigin=1>
4. The National Major Trauma Nursing Group (2016) *Nursing and Allied Health Professionals Trauma Competencies in the Emergency Department Adult Level 1*. Available at: <http://nebula.wsimg.com/agf7faafd978cd1ec5c5a463d1cc7b65?AccessKeyId=3902D5FF5C6A88146946&disposition=0&alloworigin=1>