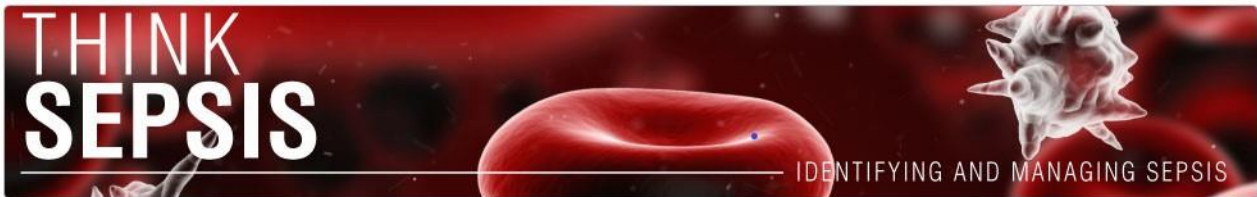


TEL NEWS

Welcome to TEL News



New e-learning programme 'Think Sepsis' was showcased at the House of Commons and welcomed by MP Caroline Dinenage, Minister of State for Care. See page 8 for the full story.

TEL News is your monthly update keeping you up to speed with all that is Technology Enhanced Learning (TEL) in healthcare. TEL News includes information from Health Education England's (HEE) TEL Programme team, the e-Learning for Healthcare (e-LfH) Programme and other updates we think you will find useful. We're keen to spread the news about TEL so would be grateful if you would share it throughout your own networks. If a colleague would like adding to the distribution list please ask them to email tel@hee.nhs.uk providing their contact details.

TEL Programme update

Update on the Learning Solution



Prior to starting the development work for the beta phase of HEE Learning Solution work has commenced on some key areas that will underpin the development in the next phase of this exciting project:

User research into the potential integration of the e-LfH Hub and the Learning Solution

Based on research undertaken during the alpha phase, which highlighted concerns about introducing an additional, separate user and login system, a decision was made to explore the integration of the user system with the closest related system, the e-LfH Hub. We have conducted focus groups and one to one interviews this month with people in a variety of roles, settings, locations and across sectors to find out what their expectations are around the look and feel, functionality, user journey and interoperability of the e-LfH Hub and the Learning Solution.

We are currently analysing the output from this user research to inform the requirements for the level of integration between the two systems and whether the e-LfH Hub becomes part of the HEE Learning Solution.

Branding and design of the Learning Solution

The prototype created during the alpha phase uses the existing HEE branding, but the focus of the alpha was on functionality, not look and feel. We now need to build on the design created for the existing prototype by translating the HEE brand guidelines to be the primary brand of the Learning Solution. This will also include developing a name, identity and personality for the Learning Solution. This piece of work will be informed by the output of the user research mentioned above.

User research into the potential integration of an event management system (offering face to face events) with the Learning Solution

As well as the Learning Solution offering access to online resources and physical equipment, a further strand could be the addition of sourcing face-to-face training events, all within a single system. This would offer a truly blended learning experience. We have conducted focus groups and one to one interviews this month with people in a variety of roles, settings, locations and across sectors to identify user needs and expectations in sourcing face-to-face training events and where gaps may exist in current practice. We are currently analysing the output from this user research to inform the potential integration of the Learning Solution and an event management system.

For more information about the Learning Solution project visit www.hee.nhs.uk/tel.

The Rise of the Machines?

The TEL team is exploring the use of Artificial Intelligence (AI) in education and training, specifically looking at how this can be used to personalise and adapt the learner experience.

There is much hype around the use of AI and machine learning but does the hype match the reality? In this unprecedented work in healthcare education, we want to find out just how mature AI technology is.

The first pilot is being run with AI pioneers Global Filtered. Their tool uses a chat bot to assess an individual's digital capabilities against our digital literacy framework and then makes learning resource recommendations based on the user's perceived needs.



The second pilot is being run in conjunction with Leeds University Institute of Medical Education (LIME) and Canadian psychology company IMC. The tool uses IBM Watson to analyse individual thinking styles based on an analysis of text generated by the user in response to a series of trigger photographs. This analysis is then being used to adapt the support mechanisms for learners depending on their perceived thinking styles.

In future issues of TEL News, we will be providing updates on our findings from these two projects and will be providing links to test the technologies.

Taxonomies update – our pool party continues

In the previous issue of TEL News, we announced we were working with technology company Mekon Ltd. to implement the Pool Party taxonomy and ontology management solution. Work is progressing well with the configuration and setup of the system and we are working with partner organisations to ensure the vocabularies in our system match those being used elsewhere in healthcare, such as with NICE and NHS Choices.

The Pool Party taxonomy engine will power the search on the Learning Solution and other related systems across HEE.

Simulation update

The project to deliver a strategy for Simulation-based Education (SBE) across HEE was initiated in September 2017 with the plan for delivery and implementation in two stages. We are now pleased to announce that work on the strategic framework to support locally led and delivered SBE will be completed at the end of June 2018. Embedding of the principles of the framework will continue until 2019/2020.

The requirements for delivery of an HEE SBE strategy were based on the Department of Health (DH) TEL wheel.



The project looked at information on SBE delivery from the HEE area offices. From this information, themes emerged which were then synthesised into the five guiding principles. These guiding principles have been socialised and discussed through the consultation process that was agreed at the start of the project. In particular, the multi-professional simulation reference group members have been instrumental in development and HEE is grateful for their interest and expertise.

Next Steps:

- Release of SBE framework – **Summer 2018**
- Release of suite of films showcasing SBE – **Summer 2018**
- Preparation of final implementation plan – **Summer 2018**
- Development of e-Learning for Healthcare SBE area for information sharing – in advance of the Learning Solution – **Summer 2018**
- Rolling programme of Reference Group meetings/events for sharing of good practice and progress review shared – **Summer 2018**
- Agreed timeframes for review of framework and development of national SBE strategy with ongoing review and refresh processes - **proposed 2019/20**.

We would like to thank our stakeholders for their continuing support with the development of this strategic framework. Rest assured we will continue to strive to ensure development and implementation of HEE's strategic vision:

'HEE will support the delivery of safe, effective care by the provision of meaningful and cohesive simulation-based education through a well-trained and engaged multi-professional workforce.'

TEL teams working together

Earlier this month the HEE national and regional TEL Teams met to discuss local, regional and national projects. It was an excellent opportunity to update and work collaboratively on all things TEL. The meeting highlighted future synergies between local, regional and national projects across HEE and the importance of sharing good practice.

With the new General Data Protection Regulation (GDPR) we would like to take this opportunity for you to connect with your regional TEL Leads to ensure you are part of their networks and have the opportunity to keep up to date with future developments and news.

Please email your regional lead if you would like to be included in their regional distributions, networks and meetings:

London, Kent, Surrey and Sussex: Louise.Goswami@hee.nhs.uk

South: Helen.Bingham@hee.nhs.uk

North: Sean.Bradbury@hee.nhs.uk

Midlands and East: Ruth.Carlyle@hee.nhs.uk.



e-LfH update

The HEE e-LfH team is constantly updating existing and launching new e-learning sessions. For the schedule of when new sessions will be launched please click on this link: www.e-lfh.org.uk/planned-programmes.

TEL Network event

On 2 May, we ran a networking event for HEE e-LfH stakeholders across health and social care who share an interest in educational technologies.

A series of speakers from the educational technology industry spoke about themes such as artificial intelligence in healthcare, improving the design of web services and the power of MOOCs.

The day provided an opportunity for our stakeholders to engage with our designers and developers. We were also able to thank our wider network for helping to deliver a growing portfolio of projects that continue to make the e-LfH Hub the growing educational resource that it is.

Induction programme for doctors in training nears completion

Health Education England (HEE) is in the final stages of developing a national online induction programme for doctors in training. It incorporates key relevant clinical topics which support doctors in training with the additional competencies needed as part of their induction to provide high quality patient care.

The content will be available as three 'patient journey' scenarios and each come with an assessment to confirm competence acquisition. The new induction e-learning programme will be available from June 2018, via the e-Learning for Healthcare Hub, the Electronic Staff Record (ESR) and some local Learning Management Systems via AICC links.

The scenarios will cover the following topics:

- Scenario one will cover Blood Transfusion and Consent
- Scenario two will cover Safe Prescribing and Venous Thromboembolism (VTE)
- Scenario three will cover Mental Capacity Act and Death Certification

Each scenario will also cover the learning outcomes for Risk Management and Record Keeping, where relevant within the patient scenarios.

The new induction resource will be able to be used in conjunction with the existing statutory and mandatory programme. For more information on this programme please visit: <https://www.e-lfh.org.uk/programmes/statutory-and-mandatory-training/>.

For more information about the Doctors in Training induction programme please email tel@hee.nhs.uk.

Updated e4Equipment e-learning programme



The e4Equipment e-learning programme, which provides high quality training in the safe and effective use of medical equipment technology, has been fully reviewed and updated.

The programme was originally created in 2010 and this recent update means all 52 sessions now contain the most up-to-date and accurate information. As part of the update three new modules and nine new sessions have been added to the

programme.

The programme is aimed at all healthcare professionals within NHS Trusts and has been developed in partnership with the National Association of Medical Device Educators and Trainers. All sessions are suitable for registered practitioners and a selection of sessions are suitable for support staff.

e4Equipment consists of the following modules:

- Module 1: Infusion Devices – Volumetric Pumps
- Module 2: Infusion Devices – Syringe Pumps
- Module 3: Suction Units
- Module 4: Safe Use of Beds and Mattresses
- Module 5: Safe Use of Moving and Handling Equipment
- Module 6: Pain Management Pumps

- Module 7: Basic Observation/Monitoring Equipment
- Module 8: Bariatric Equipment.

The development, and review process, has included consultation with medical equipment trainers and national bodies such as the Medicines and Healthcare Products Regulatory Agency, NHS Improvement (Patient Safety), Care Quality Commission, NSH Litigation Authority and Standards for Better Health.

For more information about the e-learning programme and for details of how to access the programme visit: <https://www.e-lfh.org.uk/programmes/medical-equipment/>

The e-learning programme is available via the [e-LfH Hub](#) and the [Electronic Staff Record](#).

Immunisation e-learning programme now live

Immunisation is a highly successful public health intervention, saving thousands of lives every year. To ensure ongoing public confidence in vaccines and a high vaccine uptake, it is vital that all those who advise on and/or administer immunisations are confident, knowledgeable and up to date.

This e-learning programme has been designed in line with the recommendations made in the Public Health England (PHE) National Minimum Standards and Core Curriculum for Immunisation Training.

In recognition of the fact that immunisations are given in many different settings and service areas, this programme has been designed to be relevant to all healthcare practitioners with a role in immunisation.

It consists of seven knowledge sessions with accompanying assessments. It is recommended that those new to immunisation complete all seven sessions. Those with prior knowledge and experience in immunisation may wish to read through the relevant knowledge sessions for refresher training or undertake the assessment sessions to check on their knowledge.

The sessions cover:

- National immunisation policy and programmes
- Immunology
- Vaccine preventable diseases
- Communicating with patients and parents
- Legal aspects
- Vaccine storage
- Vaccine administration.

Immunisation

An interactive e-learning programme to support the training of healthcare practitioners involved in advising on and/or delivering immunisations across the life course



For more information about the e-learning programme and for details of how to access the programme visit: <https://www.e-lfh.org.uk/programmes/immunisation/>

The e-learning programme is available via the e-LfH Hub and the Electronic Staff Record.

The programme has been developed by Health Education England, e-Learning for Healthcare, Public Health England, Royal College of Nursing, Royal College of Paediatrics and Child Health, UCL Great Ormond Street Institute of Child Health, Public Health Wales and Public Health Agency Northern Ireland.

Foundation e-learning programme: Professional Capability: 7 - Works effectively as a team member

Our Foundation specific e-learning programme has been developed in partnership with the Academy of Medical Royal Colleges and is approved by UKFPO.

The e-learning sessions cover working in, and with, teams in different healthcare settings. Users will discover how effective teamwork is as a determining factor in patient safety and the value of good handover practice and referral. They will think about your role within a multidisciplinary team (MDT) and consider team dynamics and how working within and across MDTs can deliver and improve patient services.

Sessions:

- Team Working and Patient Safety
- Good Handover Practice
- Effective Referrals to Other Clinical Teams
- Primary, Secondary Care Interface
- Ward and Therapy Services
- Ward and Social Services
- Team Dynamics
- Effective Team Working.



For more information about the Foundation programme and for access details visit: <https://www.e-lfh.org.uk/programmes/foundation-programme/>

Surgical trainees' e-learning programme now available on the e-LfH Hub and ESR

We have worked with the Royal College of Surgeons to develop and update eSurgery, a free e-learning resource supporting trainees in their early years of surgical training.

This resource provides a broad theoretical knowledge common to all surgical specialties and help trainees develop the basic knowledge and skills required of a surgeon.

eSurgery offers interactive e-learning sessions structured in modules that map to the Intercollegiate Surgical Curriculum Programme (ISCP).

The modules cover:

- Basic science knowledge relevant to surgical practice
- Common surgical conditions – this module has recently been updated with 22 new sessions
- Basic surgical skills
- Peri-operative care of the surgical patient
- Assessment and management of patients with trauma – this module has recently been updated with 13 new sessions
- Organ and tissue transplantation.

The eSurgery programme is now available via the Electronic Staff Record (ESR).



For more information about eSurgery and how to access the programme please visit: <https://www.e-lfh.org.uk/programmes/surgery/>.

New learning package designed to help clinicians spot the early sign of sepsis in children and infants

A new learning package aimed at improving the rates of accurate diagnosis and treatment of sepsis in children has been launched by HEE.

The 'Think Sepsis' programme to identify and manage sepsis in paediatrics is a new type of training for clinicians which can be used in face to face sessions or independently through e-learning.

The learning package is case-based and comprises of interviews with the parents of three children affected by sepsis – Melissa Mead, whose son William died, Jason Watkins and Clara Francis, whose daughter Maude died, and Katie Maryon-Wilson, whose daughter Rosie survived.

The films follow the patient journey from diagnosis to treatment, as the parents each talk about their experience of sepsis, their child's treatment and diagnosis of the condition and the impact that it has had on their families.

Clinical experts also feature in the training to offer guidance in recognising the difficult to spot signs of sepsis in children and the best practice response to effectively treat this life-threatening condition.

The videos are complemented with teaching notes and a training guide that can enhance learning and contribute to CPD.

The training is hosted on [HEE's e-Learning for Healthcare platform](#) and is free to access for all staff in NHS and social care. It has a new enhanced feature, in that it can be used as an e-learning package, whilst also being suitable to be delivered in a classroom setting by trainers and facilitators. It is being promoted widely around our local offices and training hubs.



The new materials were showcased at the House of Commons where MP Caroline Dinenage, Minister of State for Care, welcomed the e-learning package as a revolutionary approach to tackling sepsis diagnosis and treatment.

The Minister of State for Care said: "Education and training is the golden thread in improving recognition, treatment and positive outcomes of sepsis in children.

"We are working with Health Education England to make sure all health professionals have the knowledge and skills to identify and treat sepsis.

"With hospital care quality and patient safety as a responsibility, I'm very pleased to celebrate this new approach in training and education in paediatric sepsis".

Following several high-profile cases of child deaths due to sepsis, the Secretary of State recognised the need for the NHS to radically improve the diagnosis and care for patients suffering from the condition.

It's estimated that there are around 123,000 cases of sepsis each year in England, with around 1,000 of these cases reported in children under five, which the e-learning package aims to reduce by supporting health and social care professionals through training and personal development.

Wendy Reid, Director of Education and Quality and National Medical Director for Health Education England said: "The new 'Think Sepsis' materials show just how important HEE's role is in education and how it can lead to saving patients' lives. Sepsis is a hugely important topic in both children and adults and this new educational resource, which is available to all health and social care professionals, can help improve diagnoses and treatment rates for patients".



HEE has worked collaboratively across the healthcare system through the HEE Sepsis working group with several Royal Colleges, the UK Sepsis Trust charity, Public Health England and patient representatives to produce the learning materials.

The 'Think Sepsis' e-learning package is free and available to all NHS healthcare professionals through HEE's e-Learning for Healthcare [website](#).

New session added to e-LPRAS programme

A session on 'burns during pregnancy' has been added to our e-LPRAS (e-Learning for Plastic, Reconstructive and Aesthetic Surgery) e-learning programme. The session looks at changes that take place in the cardiovascular system during pregnancy and explain how these affect response to burns. It also includes information on how to adapt burn management practice for patients who are pregnant.



The e-LPRAS programme was developed in partnership with the British Association of Plastic, Reconstructive and Aesthetic Surgeons (BAPRAS) and was designed as an e-learning resource to support good clinical practice. e-

LPRAS supports the training programme for plastic, reconstructive and aesthetic surgery and is aimed at plastic surgery trainees from speciality training year 3 (ST3) onwards. It will also appeal to consultants, non-consultant career grades and allied health professionals who want to increase and update their knowledge base.

More information is available on the programme page: <https://www.e-lfh.org.uk/programmes/plastic-reconstructive-and-aesthetic-surgery/>

e-Learning programme to support staff in involving patients and public in their work now live

We have worked in partnership with NHS England to develop a new e-learning programme called Engaging with People and Communities – 10 steps to even better public engagement.

The programme has been developed as an alternative to the one-day face-to-face session to ensure learning opportunities are available to all colleagues. It is aimed at those people working in a commissioning role, supporting a commissioning role or who have an interest in this work.

It supports staff to involve patients and the public in their work using approaches built on best practice principles to improve services, including giving clear advice on the legal duty to involve. The e-learning links to an extensive range of resources, good practice and advice that will support staff to involve patients and the public. It highlights key participation principles and themes including working with 'seldom heard' groups to maximise the benefits and impact of involvement.

The e-learning programme is available to access via the e-LfH Hub and the Electronic Staff Record (ESR).

For more information about the e-learning programme please visit: <https://www.e-lfh.org.uk/programmes/engaging-with-people-and-communities/>

Leading scientist, Dr Eric Topol, visits the UK to kick-off ground-breaking technology review



Leading cardiologist, geneticist, and digital medicine researcher, Dr Eric Topol, visited London last month to start work on a major independent review.

The review - commissioned by the Secretary of State and facilitated by Health Education England - will look at the impact of game-changing technologies on the skills required from future healthcare professionals, as well as those currently working in the NHS, and how we ensure their education and training meets these needs.

During the three-day visit, Dr Topol from the Scripps Translational Science Institute in California, met with world leaders in artificial intelligence, digital medicine, genomics, and robotics to explore the extraordinary opportunities new technologies offer the healthcare workforce, and their ability to power a sustainable and vibrant NHS.

Speaking on his visit, Dr Topol highlighted the need for technological advancements in healthcare, saying; "we desperately need technological innovation in healthcare. Artificial intelligence is already in every aspect of our lives, from navigation to voice recognition. It will now be applied to healthcare, the final frontier."

For more information: <https://hee.nhs.uk/our-work/topol-review>.

BMJ Award Winners – Maudsley Simulation

Congratulations to Maudsley Simulation, which has been crowned Education Team of the Year at the British Medical Journal (BMJ) Awards.



Maudsley Simulation is the UK's first simulation training centre focusing on mental health with the aim of improving services for all who are affected or impacted by mental health issues.

Working within the South London and Maudsley NHS Foundation Trust since 2014, the team has successfully developed a range of simulation training courses

involving actors and technology. So far, they have trained more than 5,000 health professionals.

The awards were held at the Park Plaza Hotel on Westminster Bridge in London on 10 May. The team presented to an expert judging panel during the day and were announced as winners at the ceremony later that evening.

The judges praised the team's innovative approach to education, their focus on translating learning into clinical practice, and their work to build capacity to deliver mental health simulation training nationally.



Consultant Liaison Psychiatrist and Director of Maudsley Simulation, Dr Sean Cross said: "We are incredibly proud to have our hard work and the work of the Trust recognised with such a prestigious award. Our outstanding team is truly committed to improving care for people with mental health needs, but we couldn't do it without the amazing actors and service users who support our training, and of course the wonderful staff who attend and take their learning back into clinical practice to improve care".

Find out more about Maudsley Simulation on their [website](#) and [Twitter](#).

Now in its tenth year, the BMJ Awards recognise and celebrate the inspirational work of healthcare teams across the country. More than 350 teams submitted entries, with 60 teams shortlisted and 15 eventual winners.

For more information about anything you have read in this update please email tel@hee.nhs.uk.

To unsubscribe from TEL News please email tel@hee.nhs.uk and type "unsubscribe" to the email subject box.