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Deontics implements Acute Coronary Syndrome (ACS) clinical decision support (CDS) pathway in the Acute Coronary Care Unit (ACCU) at the Royal Liverpool and Broadgreen University Hospitals NHS Trust (RLBUHT), UK.

Deontics is pleased to announce that the implementation of the Liverpool ACS pathway in the ACCU in Liverpool has now gone live. The Deontics pathway software is fully integrated with the hospital's existing homegrown electronic patient record (Patient Electronic Notes System), and provides highly sophisticated and granular decision support to nurses and doctors treating ACS patients on the ACCU, like a "clinical SatNav". The tool utilises the hospital's own ACS treatment protocol and dynamically integrates the protocol with individual patient clinical data to generate personalised, evidence-based, treatment and referral recommendations within the existing workflow. Simultaneously, the tool captures all clinical and protocol data used in each clinical decision, including the compliance status of the decision with the protocol and the reason for any non-compliance, enabling the learning system and automated real-time and historical audit.

RLBUHT senior clinical staff anticipate that this will result in an increase in compliance with their protocols and more efficient, standardised, clinical practice, potentially contributing to reducing bed-blocking on the ACCU and to higher productivity, while increasing patient safety.

If successful on the ACCU, RLBUHT anticipates extending permissions for usage of the software into Accident & Emergency (A&E), and usage of Deontics software across multiple pathways across multiple clinical indications and departments beyond cardiology, to improve and standardise clinical quality throughout the Trust.

The implementation of the Deontics ACS pathway at Liverpool is part of the Global Digital Exemplar programme there and will contribute to RLBUHT attaining EMRAM Level 7 (the highest level) of digital maturity.

Dr. Guy Wood-Gush, Chief Executive of Deontics, said: "We are very pleased to have launched this application of the Deontics platform at the RLBUHT and believe it can facilitate significant improvements in clinical productivity, reduced bed blocking, and increased patient safety in ACCU and A&E. We have been very impressed by the clinical and technical capabilities at the RLBUHT and believe this will enable a smooth path to further roll-out at the hospital".

Dr. Michael Fisher, Chief Clinical Informatics Officer at the RLBUHT, said: "We are delighted to be working with Deontics on this very exciting project and we believe the Deontics CDS platform is one of the best CDS systems available for ensuring clinical quality and efficiency. We will be reviewing progress with a view to potential widespread roll-out throughout the Trust if successful. We anticipate that Deontics can contribute to standardise our care pathways and to reduce costs and increase efficiencies. The goal is to provide the most cost-effective and safest care to our patients and at all times to improve the patient experience and the experience of our staff".

About Deontics (www.deontics.com)

Deontics is a supplier of world-leading CDS software, dynamically providing personalised, evidence-based, treatment advice at the point of care for any clinical indication or use case, ensuring care is appropriate, optimum, and safe.

The Deontics system is like a "clinical SatNav" which provides appropriate clinical support in a non-linear environment dynamically adjusting outputs in response to changes in a patient's clinical data, rather than progressing down a step by step algorithm or decision tree. In this way, Deontics effectively supports a clinician or patient in assessing the 'pros and cons' of different treatment options, even in highly complex decisions. This functionality goes well beyond the typical situation action alerts or order sets available with traditional decision tree based CDS and has been shown in numerous published studies to significantly improve clinical compliance, and reduce errors.

The Deontics platform includes an encoding tool which allows clinical guidelines and protocols to be rapidly encoded into a standardised digital logic model at which point the content is editable, executable and deployable; and a decision engine which will integrate this clinical evidence with individual patient data to generate treatment recommendations.

The platform is a mechanism for identifying, encoding, implementing and auditing a clinical policy within a department, across a hospital or group of hospitals or clinics or within a primary care setting.

About the RLBUHT

The RLBUHT is an NHS acute Trust serving Liverpool and Merseyside. The Trust runs three hospitals and is the major adult university teaching hospital Trust for Merseyside and Cheshire and has a strong history of medical innovation. The Trust provides specialist services to 750,000 patients each year and has a catchment population of 2 million people.

RLBUHT is part of NHS England's Global Digital Exemplar (GDE) programme to accelerate the adoption of new digital technologies by the NHS and, as such, is one of only 16 acute GDEs across England and Wales. The GDE programme is central to the NHS England's recently published Long Term Plan providing innovation funding for new digital technologies to be used and exemplified for wider usage across the NHS.

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