

Northern Ireland Electronic Care Record – five years transforming care

The Customer

Northern Ireland operates under a national Health and Social Care system, which is responsible for commissioning services, resource management, performance management, and service improvement to meet the needs of the population of Northern Ireland. Within the system there are a total of six Health and Social Care (HSC) Trusts. The Northern Ireland Electonic Care Record (NIECR) was delivered by the regional Business Services Organisation (BSO) to enable information sharing for the entire region.

The Challenge

Faced with many disparate clinical systems Health and Social Care Northern Ireland (HSCNI) recognised the ever-increasing amount of clinical time devoted to locating patient information, which prevented effective and timely decision-making.

HSCNI had a vision to provide care professionals with a comprehensive care record, for every patient using HSCNI services. The solution was to include clinically relevant information, assembled from electronic systems located anywhere in the service and presented in real-time via a single, web-based, easy-to-use solution accessible from anywhere in HSCNI.

The Solution

A proof of concept went live for the NIECR in 2009, with the full roll-out taking place in July 2013. The NIECR is designed to sit on top of current HSC information systems, providing health and social care professionals with a single view of key patient information, wherever the patient is in Northern Ireland. This information includes demographics, lab results, medications, allergies, diagnoses, encounters, clinical correspondence and much more.

Over the years, much additional functionality has been added to the NIECR solution to further support patient care:

- eTriage Electronic primary to secondary care referrals for fully auditable, faster and more reliable referrals
- Radiology Order Comms For standardised data collection, reduction in duplicated tests, better order

Northern Ireland Electronic Care Record Information for better care	
CUSTOMER	Health and Social Care Northern Ireland
LOCATION	Northern Ireland
WEBSITE	online.hscni.net
ANNUAL BUDGET	£5 billion
POPULATION	1.8 million
EMPLOYEES	Over 56,000
NUMBER OF ACTIVE USERS	Over 20,000
PRODUCTS IMPLEMENTED:	Orion Health Rhapsody, Orion Health Consult, Orion Health Coordinate
KEY BENEFITS	 Reduced time wasted trying to access or confirm patient

information

patient record

More efficient and

Enhanced patient care with

Fewer avoidable duplicate

standardised workflows

decisions based on a holistic

laboratory and radiology tests

• Faster, trackable and more reliable

referrals from primary to acute

tracking and a single approach to radiology ordering across the region

- Regional Mortality and Morbidity System To create a single pathway for recording patient deaths in Northern Ireland for standardised process and improved scrutiny
- Results Sign Off Ability to review and sign off laboratory and radiology reports within NIECR, for increased quality and safety and reduced variation in processes
- Diabetes Pathway A single, region-wide pathway for adult and paediatric diabetes patients, enabling multi-disciplinary, collaborative recording of clinical encounters and treatments

Additional data integrations have also been added over time for example social care encounters including Children at Risk Register and Looked After Children.

In the past five years system usage has exponentially grown and user feedback has been overwhelmingly positive, with one consultant in Belfast describing the system as 'the single-most-useful IT advance in healthcare'.

"The ECR has transformed how we run our clinics and wards. It makes our job of providing the best care we can to patients so much easier – cutting down on the wasted time and effort that we were spending chasing round for the bits of information we need to safely treat our patients."

Consultant, Ulster Hospital, Dundonald

The Results So Far

The NIECR is producing wide-ranging benefits across quality, efficiency, safety and experience.

- Over 700,000 user log-ins in January 2018 alone
- In use by >98% of the medical workforce
- >95% of users say that NIECR saves them time

The Northern Ireland Electronic Care Record has won many awards for the overall solution as well as the eTriage functionality specifically. These include:

- Building Better Healthcare Awards 2016 Best Administration, Information or Data System (eTriage)
- HSJ Awards 2014 Enhancing care by sharing data and information
- EHI Awards 2014 Best use of IT to support integrated healthcare services

The region has also hosted reference visits from healthcare systems all over the world interested in replicating their success.

"The Electronic Care Record [has made the most difference to the field in my lifetime]: there's no need to worry about letters not in the chart, and most of our hospital specialties now use this, so it saves a lot of time and effort. DNA testing is second"

Prof Patrick Morrison, Clinical Geneticist

Future Developments

The ECR programme continues to evolve and mature with new functionality being added regularly. There is currently a Patient Portal in development, which will go live for an initial pilot of 100 dementia sufferers in Summer 2018. This will initially provide functionality including appointment booking, file sharing and the ability for those in a patient's Circle of Care to securely access their information. Further functionality including goal setting, medication tracking and access to laboratory results will be subsequently added.

Also in the pipeline is Medicines Reconciliation, to provide a single, standard interface to support medicines optimisation processes throughout HSCNI allowing curation of medicines on admission and discharge and integration with the discharge template. This is due to be completed in the second half of 2018.

Orion Health

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