

Facilitating Access to Clinical Information Securely and Easily Across Multiple Care Settings

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Dr. Peter Williams, Clinical Director, Whiston Hospital

Company

- St Helens & Knowsley Health Informatics Service

Challenges

- Facilitate clinical records access in Primary, Secondary and Community care settings
- Improve data security
- Increase ease of access

Results

- Fast, secure access from within hospitals and primary care practices
- Improved clinician satisfaction with IT
- Eliminated workflow barriers

Introduction

St Helens & Knowsley Health Informatics Service (StHK HIS) supports many NHS organisations including two acute teaching hospitals, 85 GP surgeries and a number of community and mental healthcare providers, with a user base of over 14,000 individuals. All services are delivered over a secure and resilient network that supports both voice and data.

StHK HIS has a track record for innovation and was one of the first organisations of its kind to successfully move to a paperless environment and adopt Electronic Patient Records (EPRs) and a scan on-demand Electronic Document Management System. In recognition of its innovative work, Neil Darvill, Director of Informatics at StHK HIS was awarded the eHealth Insiders' Healthcare IT Champion of the Year Award in 2012.

The Business Challenge

The guiding principle behind StHK HIS's approach to service delivery is safeguarding data at all stages while ensuring staff find IT easy and efficient to use. StHK HIS recognised that meeting the 'Nicholson Challenge' – an initiative which has tasked the NHS to drive cost savings of around £20 billion by 2015 – would demand increased efficiencies in working practices and its IT deployments have been targeted to work towards this goal.

StHK HIS has led the way in making efficiency savings through innovative use of technologies which enable its users, both on the clinical and administrative side, to adopt more streamlined methods of working. Ultimately the goal is to improve the quality of service that clinicians can provide to their patients.

The vision was to create an interconnected environment whereby patient records could be accessed and read across different care environments - primary, secondary and community based - increasing the amount of information flowing throughout the HIS and providing clinicians with the data they need at the point of care. This need was fundamental to ensure that StHK HIS could provide an NHS-centric service that offers patients a higher quality and safer patient experience.

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With an EPR system in place, StHK HIS users have benefitted from simplified access to services as well as better quality data at the point of care and a reduction in administration and duplicate testing. However, StHK HIS's governance team recognised that there was an increased sensitivity around security when accessing medical information. Secure access management needed to be addressed and a system which could actively improve the speed and ease of accessing data across primary, secondary and community environments while simultaneously improving security was needed.

To assist in this task, StHK HIS consulted its technology partner, BMS, an expert in the delivery of secure solutions to healthcare organisations. BMS had extensive past experience of successfully deploying healthcare IT and workflow solutions at NHS organisations including Royal Liverpool and Broadgreen University Hospitals NHS Trust and East Cheshire NHS Trust.

The Solution

To secure access to patient data and improve care provider efficiency, StHK HIS worked with BMS to rollout Imprivata's single sign-on and authentication management solution. An initial procurement of 5,000 licenses allowed StHK HIS to take a clinical workflow centric approach to security, placing an emphasis on keeping data flowing between authorised users as and when it is needed, regardless of their location.

BMS worked with StHK HIS to classify workstations across the primary and secondary care sites into two groups: On-ward workstations were marked as Red and do not allow staff to access home files or save work; off-ward workstations were marked as Blue and offer greater flexibility to single-users/clinical staff that are accessing data from traditional office locations. The Blue workstations provide access to additional applications such as Microsoft Office and are also used within GP practices. The initial rollout prioritised Red workstations and began in August 2012. Each user was assigned the CfH Smartcard for second factor authentication which also allows clinicians quick access to shared workstations in busy on-ward environments like A&E where fast user switching is imperative.

The Award-Winning Results

The solution has been rolled out across nearly all of StHK HIS's GP practices, which means that 77 GPs serving over 450,000 patients now benefit from secure and streamlined access to their applications, resulting in an improved workflow which enables them to spend more time with patients. The secondary care environments have also widely deployed the solution; all nursing workstations, 27 wards, the operating theatres and maternity unit at Whitson hospital are benefitting from improved workflows and security as a result. “Fundamentally, our whole IT security deployment was conceived with the aim of improving patient care whilst making efficiency savings. We want staff to be treating patients, not tackling IT issues, and the beauty of the model we now have in place, with Imprivata at its core, is that we are already seeing significant gains in staff productivity and end-user satisfaction,” said Neil Darvill, St Helens & Knowsley Health Informatics Service. “It's a great example of technology fitting around and enabling natural workflows, enabling care, rather than dictating how clinicians go about their work.”

The deployment of the Imprivata solution by StHK HIS has enabled clinicians to quickly and securely access electronic patient data, whether that be from inside the hospital buildings or from primary care practices. As the deployment extends to cover community and mental health over the course of 2013, the solution will support a fully streamlined and connected network of users, allowing StHK HIS to achieve its goal of placing quality care at the very core of IT enablement.

Streamlined and secure access to electronic patient data across primary and secondary services has been further supported by a reduction in the amount of time that users spend authenticating to clinical applications each day. The log on process was cited as a key pain point for clinical users at the outset of the project but now, with the solution in place, these users are saving valuable time each day through fast and secure authentication.

“We were finding that the number of login credentials to different applications was becoming a significant issue and detracting from the quality of care we could offer our patients,” said Dr Peter Williams, Clinical Director for Acute Medicine at Whiston Hospital. “With Imprivata, we have an impressive solution for accessing many different systems quickly and easily, without having to log in to them each, repeatedly throughout our shifts. In my opinion, Imprivata OneSign has been one of the biggest advancements in IT at the Trust in the last ten years.”

“At StHK HIS, we have the vision of creating a fully paperless patient record system with the aim to empower clinicians with the information they needed at the point of care, while ensuring data can be efficiently managed between those who need it.” said Neil Darvill. “Imprivata has provided the security that we were looking for to combat security risks involved with electronic patient data, whilst simultaneously eliminating workflow barriers that were slowing down clinicians’ activity.”

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About Imprivata

Imprivata, the healthcare IT security company, enables healthcare globally to access, communicate, and transact patient information, securely and conveniently. The Imprivata platform addresses critical compliance and security challenges while improving productivity and the patient experience.

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