PATHPOINT[®]

CERNER INTEGRATION

CASE STUDY



NHS Trust

DECEMBER 2020

OpenMedical

Problem Statement

Delivery of safe and effective trauma care to the population served by Surrey and Sussex Healthcare NHS Trust in a sustainable service model.

Background

- Cerner Millennium as existing Electronic Patient Record (EPR) system at East Surrey Hospital site.
- Multiple referring sites including Crawley, Horsham, Caterham Dene, Queen Victoria Hospital.
- Currently serving approximately 3,000 referrals a month.
- Virtual fracture clinic currently running on Cerner Millennium EPR with manual population of information into Cerner Millennium from external sites as part of 'Cerner-First' strategy.
- Fracture clinic care delivered solely at East Surrey site.

Challenges

- Multiple stakeholder environment with regional workflows spanning multiple systems and processes, with high referral volumes from a large catchment area.
- Impact of Covid-19 and social distancing measures reducing face-to-face clinic capacity.
- Highly complex and frequently evolving clinical pathways and workflows.
- Multiple vendor systems utilised at different sites resulting in high administrative burden for clinicians.

Acknowledgements

We would like to take the opportunity to thank everyone involved in the rapid delivery of this EPR integration project. We would like to especially thank the following:

SASH Integration Team

Krzysztof Maik - Integration Interoperability Manager Olugbenga Oyeneye - EPR Developer Shweta Juneja - QA Testing

Sussex Community Integration Team

Ivor Dias - Integration Lead SASH Informatics Team Bhavna Sapat - EPR Programme Manager Tony Newman-Sanders - Chief Clinical Information Officer

SASH Management Team

Angela Stevenson - Chief Operating Officer Osama Nooh - Service Manager SASH Clinical Team Murali Bhatt - Fracture Clinic Clinical Lead Tamsin Clake - Virtual Fracture Clinic Lead

Independent Expert

Richard Bell - Cerner Integration Specialist (provided by Open Medical)

Integration Timeline

		PREPARATION
Day -6		Approval to proceed received.
Day -5		Richard Bell provided with documentation for honorary trust contract, documents returned same day.
Day -4		Richard Bell honorary contract received.
Day -3		Richard Bell network access form submitted.
Day -2		Technical discussion started, review of documentation, advised current Cerner code freeze.
Day -1		Encryption key and IP addresses sent.
		WEEK 1
Day 0		Pass through interface agreed. Firewall changes raised.
Day 1		Connection established.
Day 2		1st Draft Technical Specifications submitted, amended specifications sent at COP.
Day 4		Testing pages provided to SASH team.
		1st Week Summary
		Secure connection established with messages bi-directional HL7 message exchange.
		Parsing of messages is confirmed on OM side including the address formatting from Cerner as well as the PDF serialisation for the MDMs.
		Awaiting opening of 2nd socket TIE02 and TIE01 sockets.
		WEEK 2
Day 5		Second port connection opened, A19 QRY interface finalised and QA completed.
Day 6		Transferred from TEST to LIVE. Address display issue identified and corrected.
Day 7		Final QA completed in LIVE environment.

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Project Outline

To provide a single-unified referral platform for the safe and effective delivery of a Virtual Fracture Clinic to the population served by Surrey and Sussex Healthcare NHS Trust.

Platform Choice

Open Medical's Pathpoint VFC system was chosen as 'Best-of-Breed' system.

Integration

Integration with Cerner Millennium EPR System preferred to allow all clinicians to access clinical information from within the EPR at the East Surrey site.

Project Duration



Technical Time

7 working days (23rd November to 1st December inclusive)



Quality Assurance 1 working day



Total Time8 working days

Integration

All integration work was conducted using standard Cerner Millennium interfaces as outlined below. No complex transformations were required.

Interfaces

A19 QRY To allow demographic return from Millenium into Pathpoint VFC whilst minimising demographic transfer not relevant to Pathpoint eTrauma.

MDM

To allow return of medical documents into Cerner Millennium. *Connection* SSL/TLS encryption protocol with asymmetric key.

A patient record automatically sent from Pathpoint to Cerner

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Results



ACCESSIBILITY

Cloud technology allows access from any site within the organisation and beyond.



GOVERNANCE

Highly structured data capture allows actionable insights for service improvement.



PRODUCTIVITY

Bespoke workflows reduce administrative burden.



AVAILABILITY

Integration with National Personal Demographic Service (PDS).



With the ultimate goal of improving quality of care, Pathpoint helps organisations standardise care, streamline processes to enhance efficiency, leverage data-driven insights, and foster a collaborative excellence among healthcare providers, all seamlessly

ALIGNING WITH GIRFT PRINCIPLES.

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