

digitalhealth

**REWIRE**  
BIRMINGHAM 12-13 MARCH 2024

Headline Sponsors:



# KYLE CROMEY AND LOUISE CLARKSON

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CHIEF PHARMACY INFORMATION OFFICER AND  
CHIEF NURSING INFORMATION OFFICER,  
BOLTON NHS FOUNDATION TRUST



**DIGITAL  
AHP AND  
PHARMACY  
SUMMIT**

Stage Sponsor:



# Pharmacy Innovation in Digital Healthcare

At Bolton NHS Foundation Trust we have successfully integrated our Electronic Patient Record (EPR) with our Pharmacy Dispensing System

Kyle Cromeey

CPIO - Chief Pharmacy Information Officer

Louise Clarkson

CNIO - Chief Nursing Information Officer



Altera.  
DIGITAL HEALTH

... for a **better** Bolton

# Bolton NHS Foundation Trust



### Our six neighbourhoods

**Bolton**  
HEALTH AND CARE PARTNERSHIP  
Building a better Bolton with you

- Populations of 30-55,000 served by integrated health and care teams
- Supporting integrated working in the place
- Providing proactive personalised care
- Helping people stay well for longer as part of a wide approach to prevention and health improvement

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# What Bolton is About ...

- 1 Accident and Emergency Department
- Acute and Community Service Provider
- Outpatient Services
- Large Maternity Service
- 650 Beds
- Scope of the Operation 2022-2023:
  - 132,000 A&E Attendances Outpatients
  - 81,000 Inpatients
  - 716,000 Outpatients
  - 16,000 Surgeries in all Theatres
  - 5,400 Babies Born
  - 6,700 Staff

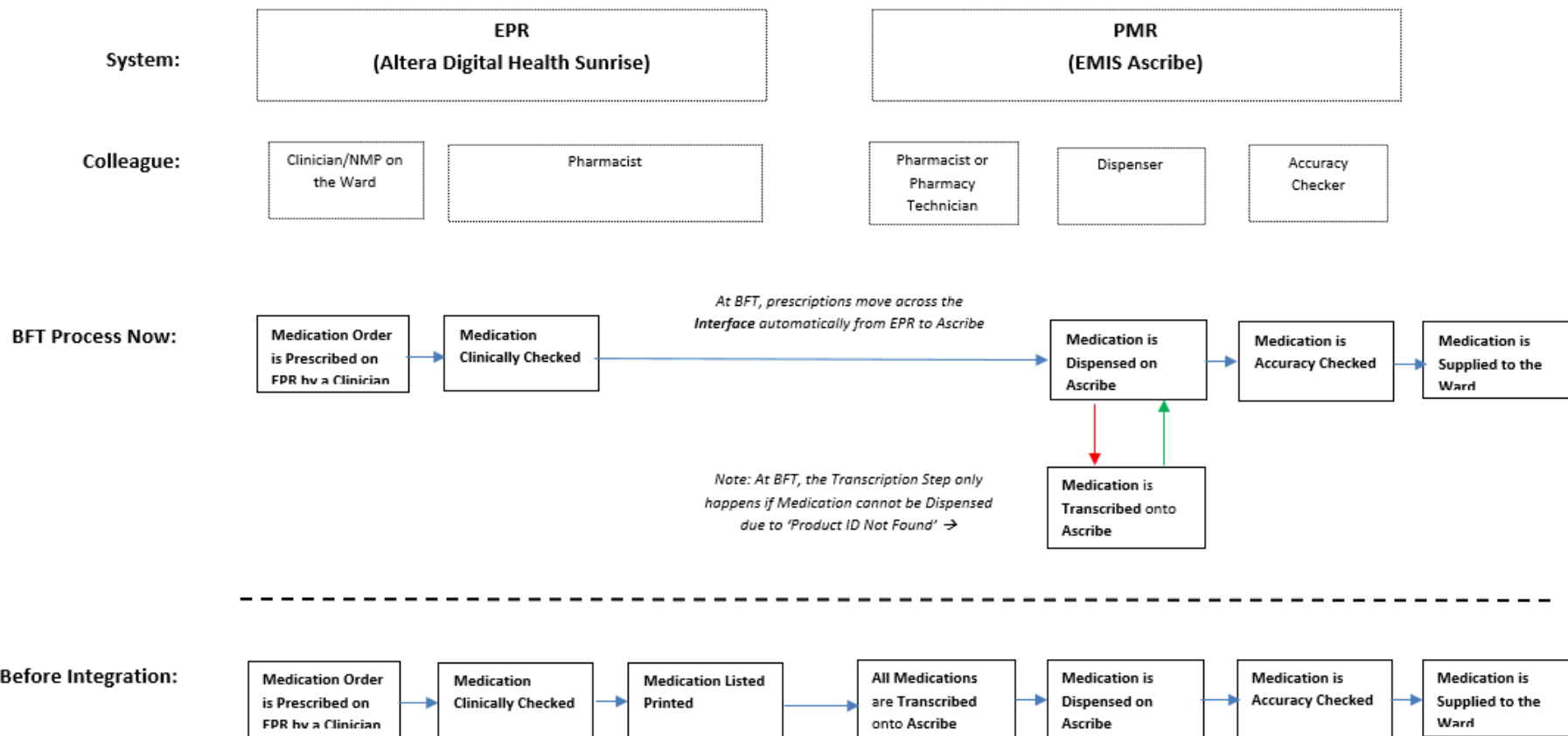


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# Medication is Always the Hardest Part

- **Risk**
  - Side effects
  - Errors, investigations
- **Time Critical**
  - Adds pressure to supply & administration processes
- **Cost**
  - Treatment, devices, clinical systems
- **Availability**
  - Who supplies
  - Sourcing the medications
  - Logistics
  - Unobtainable items
- **Reporting**
  - BI
  - Data collection, audits
  - PBR Drugs
- **Documentation**
  - Information influences treatment decisions
  - Prevent overdoses, missed doses, allergies
- **Staffing**
  - Pharmacists, medics, nurses, other clinical staff
  - Training
- **Out of Hours**
  - On-call
  - Discharges, patient transfers, IMC admissions
- **Locations**
  - Inpatients, outpatient clinics, community

# Before Integration Compared to Now



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# Real Life Patient Example

Patient on Medical Admissions Ward Identified with Suspected Meningitis and Requires Multiple IV Antimicrobials

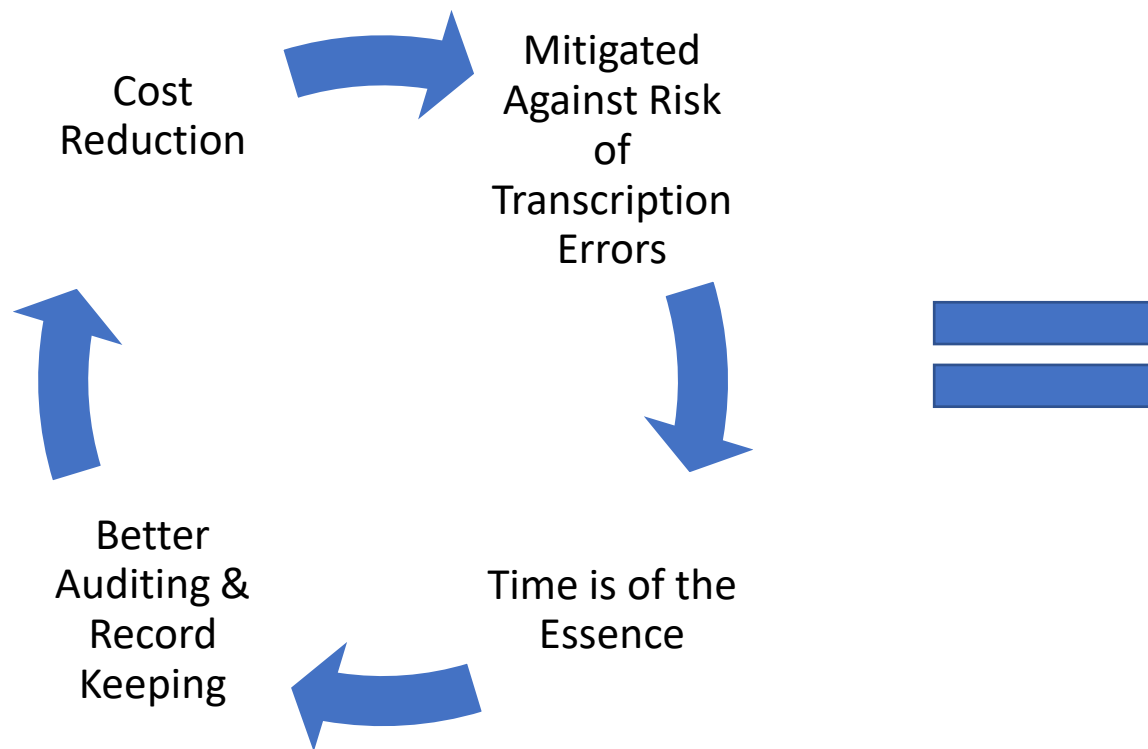
## • Before Integration



## • With Integration



# Benefit Realisation



- Improved health outcomes
- Trust reputation
- Staff confidence
- Incident investigation support, as part of quality assurance framework

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# Innovators at BFT – The First to Integrate

- How we achieved this aspiration at BFT
  - EPMA
  - Integration
  - Pharmacy IT Systems
- How we have been able to support other Trusts
  - Same Digital Clinical Systems (e.g. Liverpool Heart & Chest)
  - Same Challenges
  - Learn from our Experience



# Prioritise Integration and Interoperability

- Recommendation to other Trusts
  - Prioritise integration for safety, efficiency & cost reduction
- Future innovations at BFT for interoperability
  - Integrating EPR with GP Primary Care systems for sharing medication information

# Lessons & Reflections

## You Need...

- **Multidisciplinary Experience**  
Clinical & Technical
- **Senior Leadership Support**  
Requires Understanding of the Technical & Clinical Concepts
- **A Multidisciplinary Approach**  
Teams Across Multiple Departments

## You Must...

- **Work In Collaboration with the Supplier(s)**  
Especially when there are multiple 3rd Parties Involved
- **Have Robust Governance**  
Particularly Change Control
- **Learn Across the Journey**  
Everyday is a School Day