

# Infusion Data Connectivity

# Richard West

Thank you  
**NHS**  
and all Key Workers



The ICU Medical logo, with 'icu' in a bold, blue, sans-serif font and 'medical' in a lighter blue, sans-serif font. Below it, the tagline 'human connections' is written in a smaller, grey, sans-serif font.

**icu**medical  
human connections

## Infusion Data Connectivity

(Meaningful use of Infusion Data and Device connectivity):

Case study - Genesis Care UK

Richard West  
ICU Medical



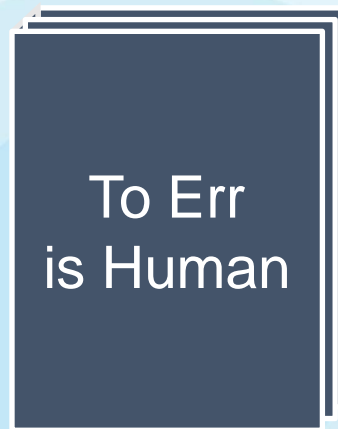
## IV therapy goals – safe, efficient care

Industry Safety organizations and guidelines to help reduce variability in care



# Patient safety and infusion pump innovations


In 1999, *To Err is Human* shined a spotlight on patient safety.



Smart Pump with  
Dose Error  
Reduction Software  
(DERS)

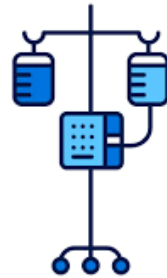


Smart Pump with  
EHR  
Interoperability

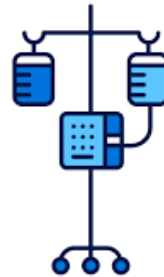
 Titilayo Alagbe  
Head of Pharmacy  
**GenesisCare**

## Case Study: Genesis Care 6 sites with SACT Infusion Delivery

**Bristol**



**Oxford**



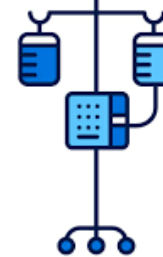
**Milton Keynes**



**Windsor**



**Maidstone**

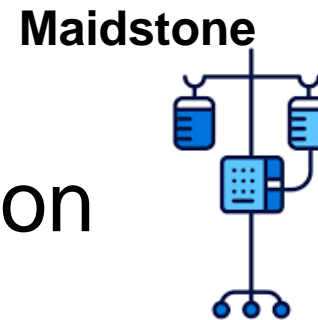
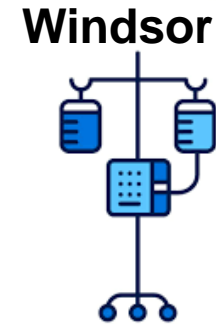
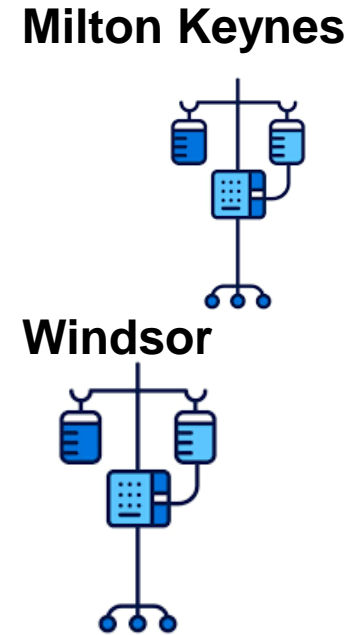
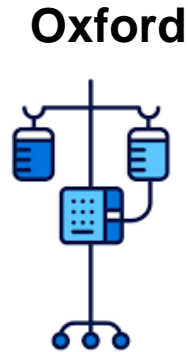
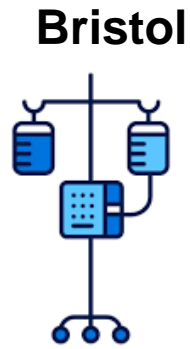


**Newmarket**



# Case Study: Genesis Care 6 sites with SACT Infusion Delivery

## Newmarket



Limited Visibility  
No Drug Library  
No Connectivity or Integration



# Connectivity Solution Blueprint What If.....

**What if** we could find a solution that would give us more visibility of our SACT deliveries across all our Hospitals

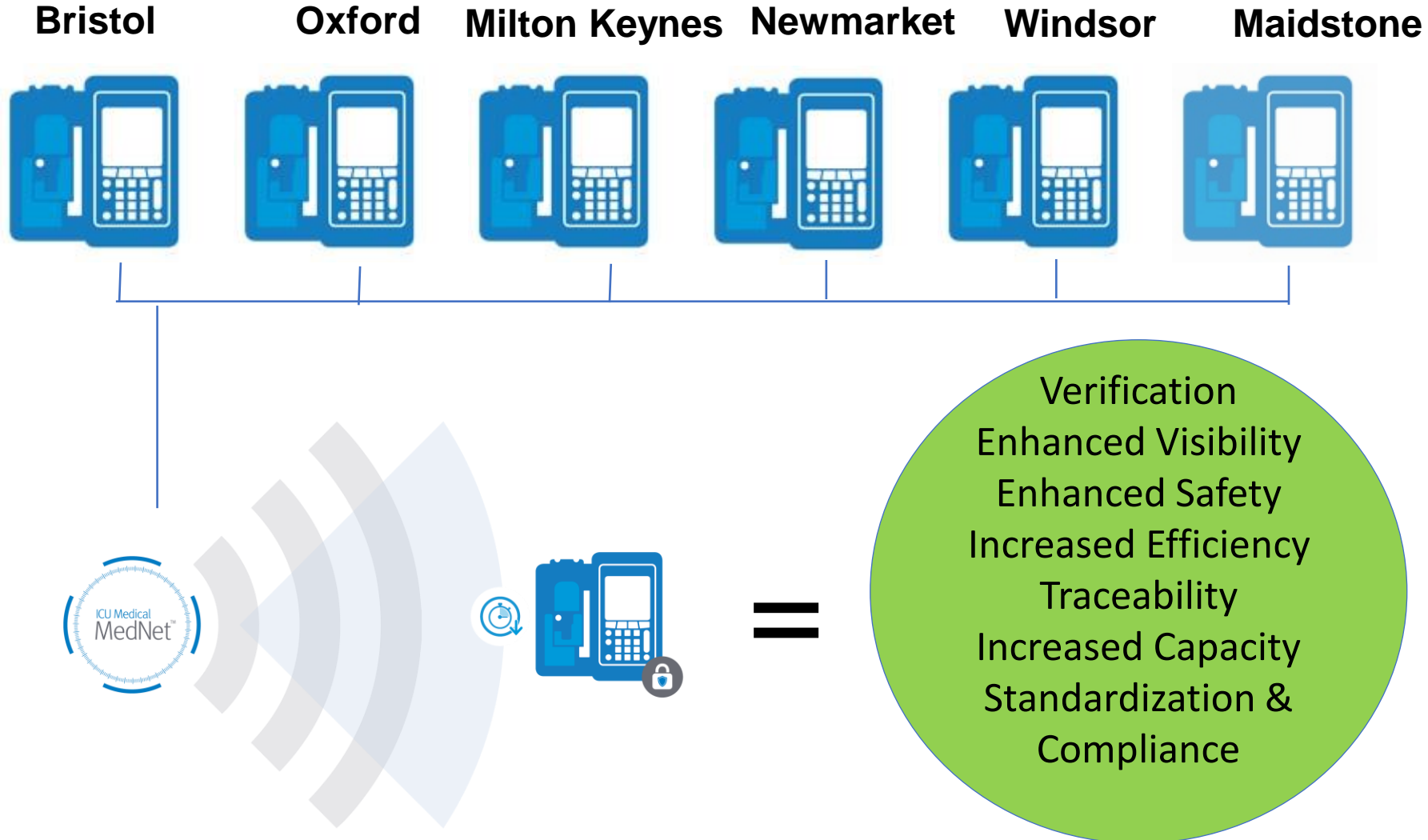
**What if** we could enhance safety of delivery with the use of a DERS system

**What if** we could deploy the drug library simultaneously across our whole fleet of pumps - Hospitals

**What if then** we could integrate infusion administration data into our patients records

**That would mean** we could associate a prescribed order to the patient to the pump with Verification (Barcode)

# Current State: Fully connected across all 6 sites



# Let's take a closer look from a Pharmacy Perspective

Home My Account Users & Roles Infusion Status Infuser Management Infuser Logs Downloads Software Import Administrative Setup Authentication Services Patient Assignment

**Select Infusers**

Infusers per Page: 10 Library: [ ] Serial Number: [ ]

Network Status: All Device: [ ] Transfer Status: All

Infuser Type: Plum A+/Plum 360

Only show infusers that can receive selected download contents

Select all infusers meeting the criteria

Apply 2

**Select Download Contents**

Software Version: 15.1x

Active Drug Library

18/01/16 6.20 11804 Plum 360 Library ← 1

Finalized 18/01/16 14:21

Last Downloaded Unknown

Last synchronization Unknown

Download Drug Library ← 3

Infusers: 1 - 1 of 1

Select	Location	Device	Serial Number	Software Version	Library	Transfer Status
<input type="checkbox"/>	Nurse Station 6	INT17734984	30141090	15.10.00.004	DEFAULT	New Device

Updating ALL pumps simultaneously across ALL the GenesisCare Hospitals

**KU Medical MedNet™** Welcome! | Logout | Help

Home | My Account | My Alerts | Dashboard | Help

Search Instructions

Patient ID  
 Patient First Name  
 Patient Last Name

Infusions per Page: 10  
 Infusion Type: Right Arm & Right Leg  
 Show Information for last 24 hours

Nursing Unit:  All  
 CCA:  All  
 Infusion:  All

Infusion Status:  
 Running  
 Stopped  
 Alarming  
 Delayed  
 Standby

Apply

**Medications Infused - by CCA**  
 Infusion Pump A+Plus 300™ Infusion System

CCA: All

Medication Concentration	Frequency	Total Dose	Hard Limit Status			Soft Limit Status			Final Program		
			Upper Total	Lower Total	Upper Rate	Lower Rate	Upper Total	Lower Total	Upper Rate	Lower Rate	Condition
Medication 1	1	10	0	0	0	0	0	0	0	0	0
Medication 2	1	10	0	0	0	0	0	0	0	0	0
Medication 3	1	10	0	0	0	0	0	0	0	0	0
Medication 4	1	10	0	0	0	0	0	0	0	0	0
Medication 5	1	10	0	0	0	0	0	0	0	0	0
Medication 6	1	10	0	0	0	0	0	0	0	0	0
Medication 7	1	10	0	0	0	0	0	0	0	0	0
Medication 8	1	10	0	0	0	0	0	0	0	0	0
Medication 9	1	10	0	0	0	0	0	0	0	0	0
Medication 10	1	10	0	0	0	0	0	0	0	0	0
Medication 11	1	10	0	0	0	0	0	0	0	0	0
Medication 12	1	10	0	0	0	0	0	0	0	0	0
Medication 13	1	10	0	0	0	0	0	0	0	0	0
Medication 14	1	10	0	0	0	0	0	0	0	0	0
Medication 15	1	10	0	0	0	0	0	0	0	0	0
Medication 16	1	10	0	0	0	0	0	0	0	0	0
Medication 17	1	10	0	0	0	0	0	0	0	0	0
Medication 18	1	10	0	0	0	0	0	0	0	0	0
Medication 19	1	10	0	0	0	0	0	0	0	0	0
Medication 20	1	10	0	0	0	0	0	0	0	0	0

Time	Status	Last Updated	Location	CCA	Serial Number
08/08/21 14:14	Stopped	08/08/21 14:14	Unit - CCU	Unit	264883
08/08/21 14:28	Stopped	08/08/21 14:28	Unit - CCU	Unit	264872
08/08/21 14:28	Stopped	08/08/21 14:28	Unit - CCU	Unit	264872
08/08/21 14:18	Stopped	08/08/21 14:18	Unit - CCU	Unit	264895
08/08/21 14:43	Stopped	08/08/21 14:43	Unit - CCU	Unit	264842
08/08/21 14:43	Stopped	08/08/21 14:43	Unit - CCU	Unit	264842
08/08/21 14:32	Stopped	08/08/21 14:32	Machine -	Machine	443074
08/08/21 14:32	Stopped	08/08/21 14:32	Machine -	Machine	443074
08/08/21 14:48	Stopped	08/08/21 14:48	Machine -	Machine	443074
08/08/21 14:48	Stopped	08/08/21 14:48	Machine -	Machine	443074

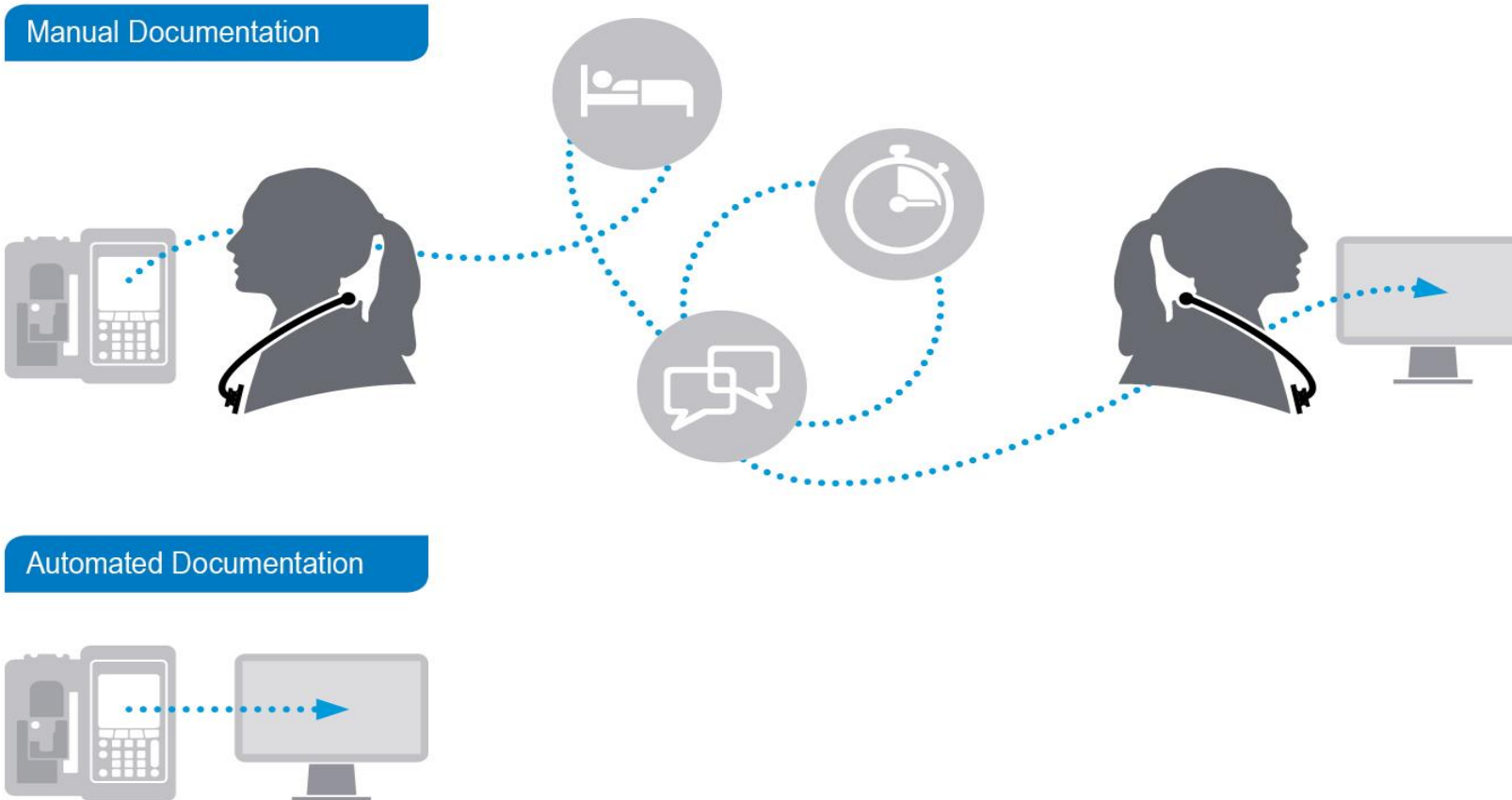


Samantha Warman  
Lead Chemotherapy Nurse

GenesisCare

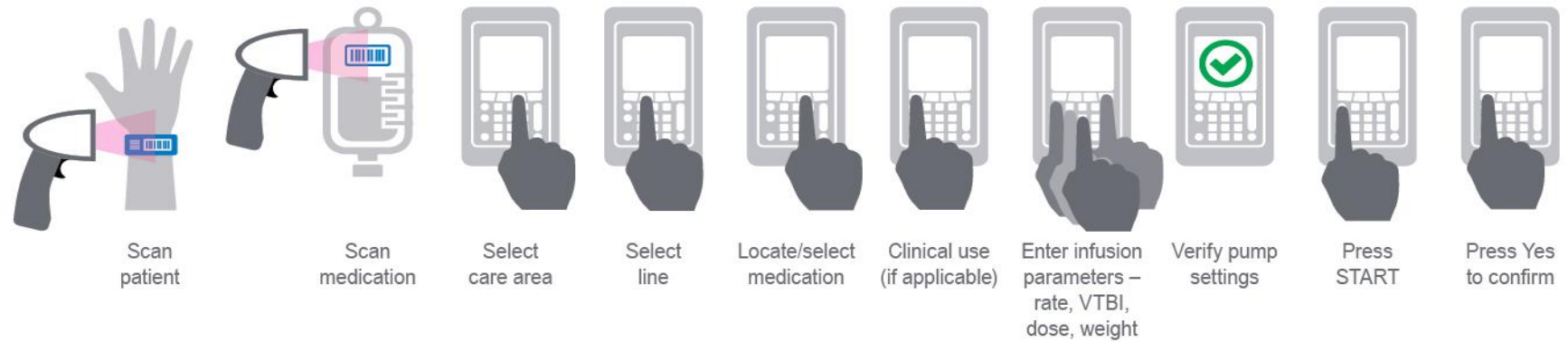
# Let's take a closer look from a Nursing Perspective

# Documentation Efficiency

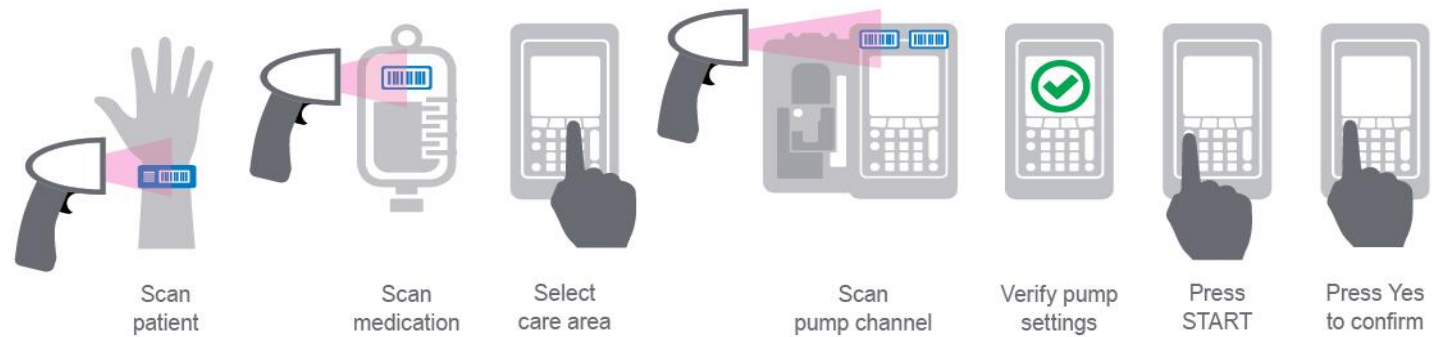




## Verification



## Auto programming



## Genesis Care : Summary

- Research and demonstrations of the pump and the drug library
- Mapping out the pros and cons of the systems
- Cost implications and savings that could be made
- Benefits to the patients and nursing staff
- Improving efficiency of the workflow
- Increased capacity on the unit due to chair time being reduced
- Reduced the risk of entering an incorrect rate, therefore reducing drug errors

## Why cybersecurity is important

