

# Improving Patient Safety by Scanning across the “Patient Pathway”

*Presented by Rachael Ellis*

*19<sup>th</sup> May 2022*

# Thanks for joining today... We are going to cover the following points

1. What is the “Patient Pathway?”
2. How do we scan through the Patient Pathway?
3. Where is the highest risk most prevalent to patients?
4. Understand what data standards are applied and why they are really important to a hospital

# My immediate question upon commencing the role...

*For a Programme  
with Patient Safety at it's heart...  
why don't we*

*put the patient in the middle*

*and follow the entire patient journey?*

# Approaching the implementation



approach

/əˈprəʊtʃ/

*noun*

1. a way of dealing with a situation or problem.  
"we need a whole new **approach** to the job"

Similar: attitude slant perspective point of view viewpoint outlook ⌵

- Patient focussed
- Visited all 6 demo sites and learned from them
- Rachael Ellis developed the patient pathway approach
- Based on a model of "support from staff"
- I wanted to know the total cost of patient care
- With full costs visible for Staff, Products, Duration, Location
- Sustainable, small but perfectly formed team

# The Patient Pathway

**Sterile Services for Trays and instruments**

**Surgical Admissions Lounge**

**Perfusion (Cardiac Bypass)**

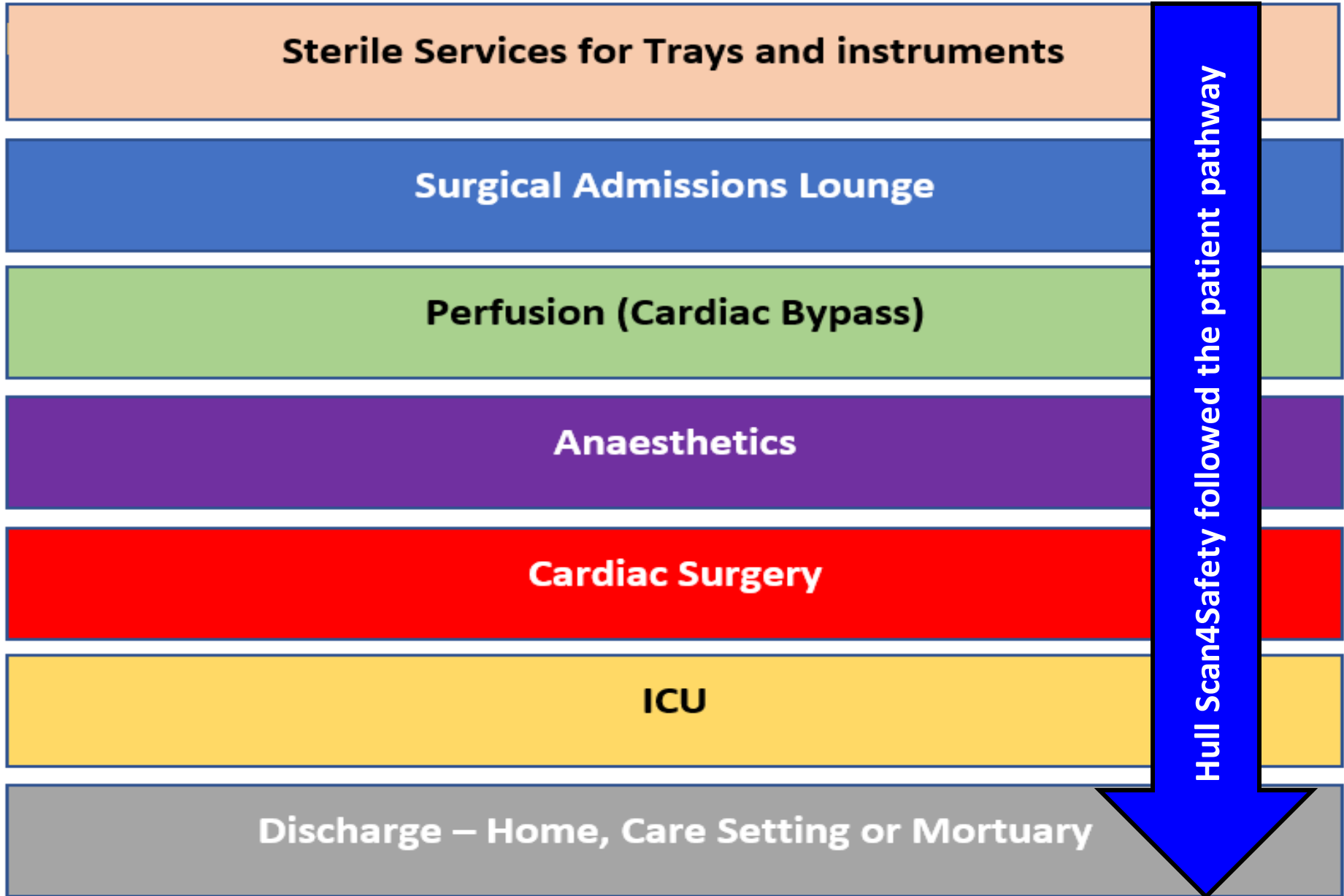
**Anaesthetics**

**Cardiac Surgery**

**ICU**

**Discharge – Home, Care Setting or Mortuary**

**Hull Scan4Safety followed the patient pathway**



Q: Where does the “patient pathway” start and end?

A: Rachael Ellis created the 3 C’s

Connected to the Patient



Continuous



Complete



# 6 Benefits of implementing via the patient pathway

1. The patient has traceability throughout their hospital stay
2. We have visibility if a patient develops a contagious infection for which staff members have been in contact with the patient.
3. Sterile Trays and instruments are tracked to each patient (GIAI's)
4. Product recalls within wards / departments have certainty and are automated (GTIN's)
5. If expired or recalled products are scanned – they alert the staff in real time
6. We can extract data for NHS Digital for the new reporting requirement without manual intervention

# Here's some patient specific benefits...

- **VENTILATOR RECALL:**

Ventilators which were recalled as part of Covid

It took **38 minutes to identify, quarantine and recall** all patient linked machines.

- **PATIENT QUERIES:**

The data has been used in responding to queries and enquiries from patients and patient relatives

- **TUBERCULOSIS (TB) ALERT:**

All staff who had connected with the TB positive patient were identified across theatres, recovery, anaesthetics and ICU



# Medtronic: Cobalt XT, Cobalt, Crome Implantable Cardioverter/Defibrillator Systems

April 2022

Implants, active, cardiac resynchronisation therapy

Model: Cobalt XT VR: DVPA2D1, DVPA2D4 Cobalt VR: DVPB3D1, DVPB3D4  
 Cobalt XT DR: DDPA2D1, DDPA2D4 Cobalt DR: DDPB3D1, DDPB3D4 Cobalt  
 XT HF: DTPA2D4, DTPA2D1 Cobalt HF: DTPB2D4, DTPB2D1 Cobalt XT HF  
 Quad: DTPA2QQ, DTPA2Q1 Cobalt HF Quad: DTPB2QQ, DTPB2Q1 Crome  
 VR: DVPC3D1, DVPC3D4 Crome DR: DDPC3D1, DDPC3D4 Crome HF:  
 DTPC2D4, DTPC2D1 Crome HF Quad: DTPC2QQ, DTPC2Q1

MHRA reference: [2022/004/021/291/002](https://www.mhra.gov.uk/consultations-and-regulatory-activity/consultations/2022/004/021/291/002)

When we receive this...

Now we simply ...

We used to ...



Surgery Items | Surgery Staff | Theatre Utilisation | Secondary Procedures | Audit Logs

Enter text to search...

Find

Category	Item Code	Supplier Item Code	Item Description	Serial Number	Lot No	Expiry Date	Unit of Measure	Ratio to Base	Status	Quantity
Implant	95HG28...	95HG2828L180-...	95HG2828L180-C03 EVITA...	1177485	1177485	01 May 2021	EACH	1	Used	1
Implant	FRQ4027	95HG2626L180-...	Stent-Graft Trifurcated devic...	1181969	1181969	01 June 2021	EACH	1	Used	1
Implant	FJA2076	633012	Vascular Graft gelsoft straigh...	2002658723	17641254-1800	31 December...	EACH	1	Used	1

WENDY

Honeywell

09:34

Surgery FINISH

CONSUM-  
ABLES

IMPLANTS

STAFF

SEARCH ITEM(S) - 11 CONSUMABLES

Attention!

FRJ2876 | 87008

Item expired 32 weeks ago on  
30 Sep 2021.

Cancel

Continue

Discard

Chain

Quantity: 6 / EACH [1]

EHC2437 | K4560/P1/REV2

K4560/P1/REV2 PROCEDURE PACK

CARDIOLOGY PACING

Quantity: 1 / EACH [1]

EIJ014 | 803115

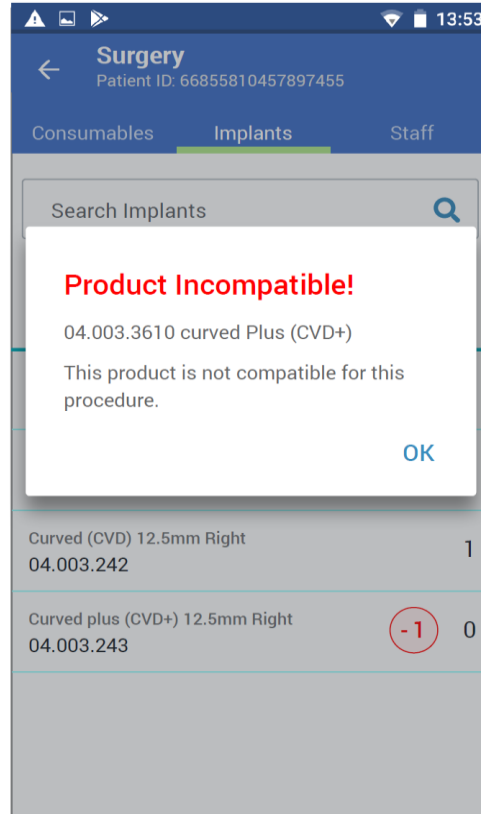
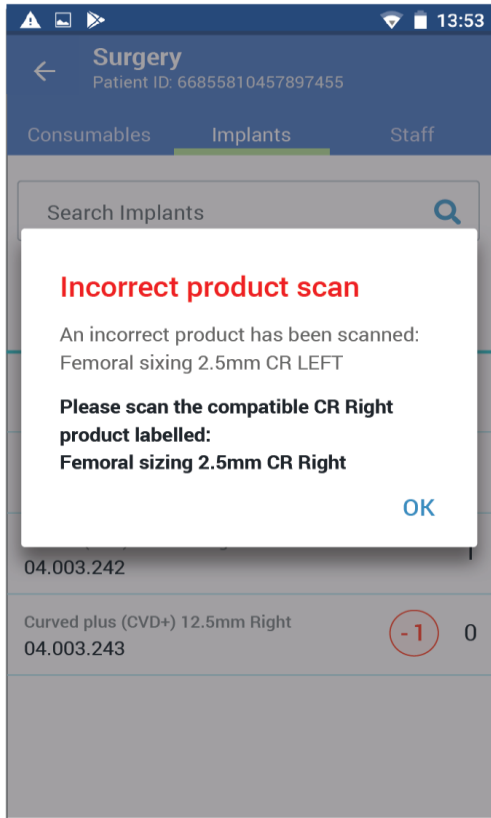
Dressing Adhesive Island Non Woven

+

This is the message you receive if you scan a product, or sterile tray which is out of date

# These are the “wrong product” warning messages

These are based on specific product being identified by GTIN's



# What are the risks and therefore where should you scan?



# Why do GS1 Standards play an important role?

1. Product **GTIN's** are easily read by barcode scanners
2. Most suppliers understand **GTIN's** and their impact
3. Products are easily recalled
4. Different Product Unit Of Measures have different **GTIN's** so are easier to manage stock
5. Assets which have **GIAI's** can be recalled in the same manner
6. Having **GLN's** around your estate make it easier to ensure that you are correct with your locations and sites

# What were we surprised by?

- The engagement of clinical colleagues – most want to simplify and digitise
- The benefits it brings
- At the start the lack of barcodes on products
- How flexible you can be, most items now have barcodes on them
- The patient pathway impact – it was never mentioned before we started
- How automated you can be, in a short timescale
- How effectively you can implement



# Scan4Safety... The “Firsts” here at HUTH...!

- **FIRST** to develop the “Patient Pathway approach” for Scan4Safety
- **FIRST** to scan within an ICU unit
- **FIRST** to scan items to community patients
- **FIRST** to scan to Mortuary

