



Hywel Dda University Health Board **S4S, ENDOSCOPY STUDY**

In June 2021 the Minister for Health and Social Services approved a full business case and associated investment as the first steps to embedding **Scan for Safety** principles and practices across Wales.

With patient safety at the heart of the programme, data standards and data capture technology are being introduced across NHS Wales.

Automating the linkage of uniquely identified
Products, Places and **People**.



It will not only assist in the prevention of patient harm with real-time data at the point of care, but it will provide instant traceability of implanted medical devices should a patient recall be required.

Underpinning the Programme is a contract signed with Omnicell for an Inventory Management Solution (SupplyX) which utilises these standards and handheld scanning technology to underpin the above benefits. Inventory optimisation benefits are integral to SupplyX, at the same time making ordering and replenishment far less labour intensive and returning clinical time back to patient care.

Once DHCW had successfully created a patient data feed from HDUHB WPAS to Omnicell's SupplyX and once the HDDA IG and Cyber leads were happy that all necessary checks had been made then the HDDA Bronglais Endoscopy team were first to go live with Scan for Safety in August 2023.

The solution gives real time visibility of stock across Endoscopy areas and automatically orders via Oracle based on pre-agreed stock and re-order levels. The scanning technology interface with local PAS digitally links products used to patients.

Why Change?

Prior to implementation...

Product Ordering

Ordering was manual requiring significant clinical and administration time to order products through Oracle.

Inventory Levels

Levels were not visible by product or area making it difficult to understand what stock was where across the Endoscopy areas.

Recording

Recording or product waste was manual and time consuming so records were incomplete.

Product Locating

If products were recalled by a supplier it would take hours of clinical time to locate the necessary item/s on the shelves and to then remove them.

Recall

Where recalled products had been used on a patient, establishing which patients had received which recalled products could only be established through maintaining and searching through separate (and predominantly paper-based) records. Often taking hours or even days of clinical time.



After learning about the potential benefits of Scan for Safety, the HDDA Theatre Services approached the NWSSP Scan for Safety team to help progress implementations across HDDA starting in Endoscopy BGH followed by BGH ICU then theatres before progressing to other HDDA main hospitals.

Action taken



A HDDA project team was created comprising leads from: Clinical (theatres and Endoscopy), Omnicell, Supply Chain, I.T., Procurement and Finance. Also *Huw Thomas (HDDA Director of Finance) was appointed Senior Responsible Owner (SRO).*



Scanning handsets were procured and configured for use by the Endoscopy team.



A feed of patient data including name, NHS Number, Hospital Number and D.O.B. was created and tested on handsets.



SupplyX (the inventory management system - IMS) was updated with the necessary products and target stock levels agreed with the Endoscopy team.



An interface was created between SupplyX and Oracle to allow for automated ordering.



Training was given to users across the Endoscopy Team including how to use the scanners for inventory management and for digital linkage of product to patient.



Final data testing and stock count was completed before go-live.

Benefits



What changed / benefits:

- Ordering for key items is now automated (at least 65 hrs clinical time released each year).
- Digital linkage of product and patient now means recalls can take minutes rather than days.
- Team can now digitally capture full list of implants and consumables used on the patient via scanning of patient wristband (444 patients link to products mid Aug to end Oct 2023 and counting).
- Target inventory levels reduced by over £22K without negative impact to service.
- Patient level cost data available to inform decision making.
- Item waste reasons can be recorded on handsets to inform practice and decision making.
- Users alerted if they select a product that has been flagged for safety data e.g., latex content.
- Users can capture product batch, serial and expiry data on scanning and access automated reporting e.g., products due to expire by store location.

Feedback From Endoscopy Team post implementation

**"This has given me so much
time back"**

**"I feel more confident
that the stock is
being ordered"**

**"I don't have to go searching
through cupboards"**

Obstacles

It took some time to develop the patient data feed from WPAS to Omnicell but now that this is available it can be used for the whole health board.

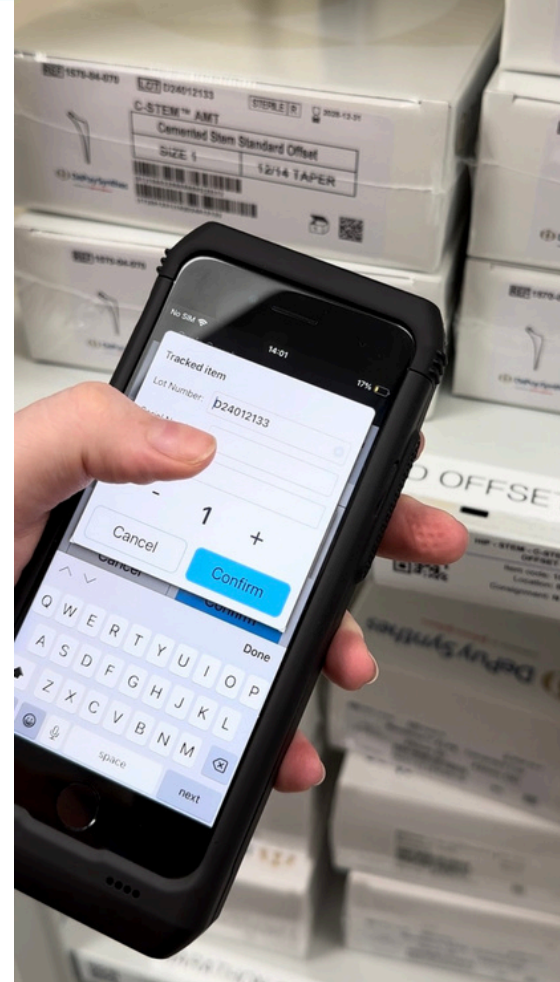
Staff availability for training can sometimes be a challenge but with flexibility and an easy to use system all staff were trained and proficient in under 2 hrs.

Items that need to be managed that aren't on an Oracle catalogue can mean that ordering is not fully automated but working with procurement in advance of implementation meant that all necessary items were placed on catalogue.



Lessons

- Staff engagement is key to a successful implementation and realisation of benefits.
- Good data preparation before implementation facilitates smoother go live.
- It can take time for users to get into the habit of scanning items but once they realise the benefits it becomes second nature.



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