



Bwrdd Iechyd
Addysgu Powys
Powys Teaching
Health Board



Partneriaeth
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Shared Services
Partnership



Powys Teaching Health Board

S4S, BRECON THEATRES, INVENTORY MANAGEMENT SYSTEM, 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 (Supply X) which utilises these standards and handheld scanning technology to underpin the above benefits. Inventory optimisation benefits are integral to Supply X, at the same time making ordering and replenishment far less labour intensive and returning clinical time back to patient care.

Why Change?

Product Ordering

Brecon Theatres were ordering via Oracle with paper lists and no pre-agreed stock levels, this ordering information was based on legacy information passed from one person to the next.

Storage Locations

The locations did not have suitable storage which led to untidy and disorganised storerooms, and a poor understanding of what stock they are holding and where.

Recording

There were no shelf edge label systems for product identification or product information (unit size, manufacture code etc). This had led to some over ordering as they had no clear labelling of current stock held.

Product Location

As over ordering occurred, this resulted in an increased health and safety risk around the storage of goods (items on the floor as no racking or in storage solutions) and presented a real risk to staff safety.

Image below shows unorganised stores pre-implementation





Action taken

- A PTHB project team was created comprising leads from: Clinical, Omnicell, Supply Chain, I.T., Digital, Procurement and Finance; As well as an organisation specific Scan for Safety Business Partner.
- Supply X handsets were provided and configured for use within the hospital environment with the help of the Powys IT team.
- Supply X Inventory Management System (IMS) was configured with all necessary products and Par stock levels. these were agreed at a clinical level and signed off by the relevant budget holder.
- An interface was created between Supply X and Oracle to allow for automated ordering.
- Training Theatres team:
 - TopUp ordering.
 - Restock and receipting of products.
 - Cycle counting for accurate stock holdings.
- Final data testing and stock count was completed before go-live.

Benefits

- End to End Inventory Management System (IMS) for both ordering and receipting.
- A one off cost avoidance of £96,380.20 in stock optimisation
- In addition to stock optimisation, an estimated 522hrs of clinical hours saved.
- Catalogue of over 74,000 product available on Supply X.
- Brecon Theatre location now has over 750 products available to order using Supply X.
- Over 95% catalogue coverage for Brecon Theatre orders.
- Working group meeting scheduled for progress updates, next steps and actions captured.
- Already working on Llandrindod implementation project with the support of the Powys Project group.
- Clean and tidy stores, with a location label for all products.
- Regular stock checks using the handset devices.
- Waste identified of over £10,000 pre-implementation, and the ability to track all types of waste post implementation.

Image below shows improved stores post-implementation

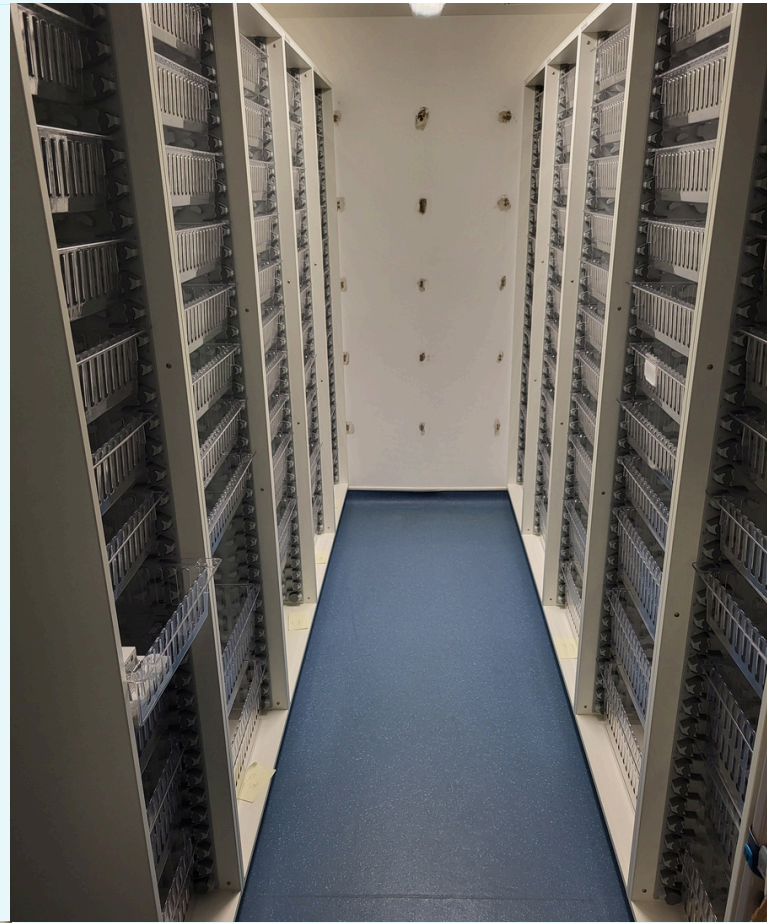


Brecon Racking

As part of the Supply X Inventory Management System (IMS) implementation, it was identified that an update to the Theatres storage system was required and therefore attained.

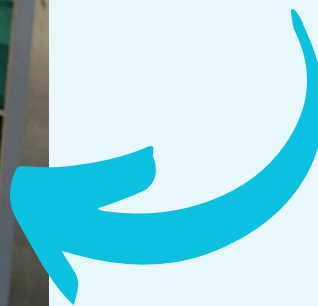
With support from the HB a tender was successfully awarded and work was carried out to update the storage system to meet the Theatres storage solution needs.

The storage solutions costing was off set against the SupplyX implementation benefits and funded by the local HB.



Before:

- Untidy stock rooms
- No specific home for stock
- No clear labelling
- Delay in identifying stock due to clutter
- Risk of missing stock and over order
- Risk to patient safety



Brecon Racking

After:

- Clean tidy stores
- A place for everything and everything in its place
- Clear colour coded labelling for improved stock recognition
- Improved ordering efficiencies
- Improved patient safety as products can now be located easily and quickly.



Since the introduction of the Supply X system we have noticed huge benefits for the staff, including **reduced time ordering** and **better stock management**. To help with this we have had new racking installed in the department in Brecon. This has allowed us to segregate different specialities, have clearly defined labelling and it makes the use of the Supply X system much easier, as the individual drawers have their own labelling. As we have new staff starting they are finding it much **easier to locate items** with the new racking in place and there is **less time spent looking for items**.

Philip Hobbs
Theatre Manager/
PTHB ODP Professional Lead

Conclusion



The NWSSP & Health Board continued investment in the Supply X implementation project and Scan 4 Safety Programme has allowed NWSSP Supply Chain function to deliver an efficient service and support the Health Board to improve patient outcomes.

This has resulted in the ability to release clinical time back to patient care.

The project has been able to deliver cost avoidance savings as well as other financial benefits.

The SupplyX IMS has given the Theatres and wider Health Board teams a greater understanding of their stock holdings, stock locations and expenditures across the theatre environment, resulting in the right product at the right time in the right place.

As the project grows to cover other sites/locations this understanding and visibility of stock will only grow.

The IMS has given the staff the ability to order all stock using a handheld device, speeding up the ordering process. It has also given them the ability to receipt using this system, so there is no longer a need to log into Oracle to receipt an order.

Lessons Learnt

Engagement

The clinical team must be engaged in the project to ensure success.

Training

Staff availability must be considered to ensure they are being trained and have the opportunity to discuss any queries.

Commitment

Time and potentially resources will need to be committed to the project to ensure it's successfully delivered and the department can gain the future benefits.

Communication

It is important that consistent communication between the clinical department and business partner is maintained to ensure any changes being updated (new staff, store locations, products, etc).

Data

Stock audit and consignment stock agreements must be made available to establish and agree products that need to be managed along with par levels.

Next Steps...

Llandrindod IMS set up

- Implementation in the 3 linked locations (Theatres, Recovery and Anaesthetics) within Llandrindod.
- Reorganisation and tidying of currently stock areas.
- Labelling and location system set up for all stock held within the theatre.
- Continued support with the ordering using the new Supply X Inventory Management System (IMS)
- Supply X database build.
- Staff training on the Supply X Inventory Management System (IMS) IMS as well as the S4S system within Llandrindod.



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