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Welcome to the **Savant Healthcare Observer**.

These are exciting times in healthcare IT. New and interesting applications are being developed every day to help improve patient care and enhance medical research. We're proud to be part of this growing sector. This newsletter outlines how our own work in healthcare adds real value to making healthcare more efficient, cost effective and lifesaving.

### Radical re-design of hospital 'crash' cart

*Innovative design could help save lives lost to cardiac arrest*

We've been invited to participate in a radical re-design of the hospital 'crash cart', used when patients go into cardiac arrest. The re-design was commissioned by the National Patient Safety Agency (NPSA) to deal with the fact that out of 40,000 cardiac arrests which occur in UK hospitals each year, less than 19% of patients survive.

One of the key factors in the low survival rate seems to be items not being easily accessible or readily available on the cart. The new design will make items easier to get hold of, prevent the ad-hoc removal of items and clearly show when essential items are low stocked or missing.

Our part in the project is to review and recommend the part technology can play in the success of the 'crash cart' – to be known as the Resus:Station. The intelligent use of technology can improve the chances of patient survival by providing online proactive stock monitoring and task management.

Our solution can help minimise human error, reduce paperwork and allow all Resus:Stations to be centrally monitored. In essence, Savant's solution involves a range

### New Hematos Transplant Module

*Fast, flexible recording of immuno-genetic data*

We're proud to announce a new module of the acclaimed Hematos software system, to help those involved in tissue analysis and transplantation.

The new system can accurately and quickly record any immuno-genetic test data including all HLA and HPA types. The module incorporates a sophisticated matching algorithm to match single samples to many patients, and single patients to many samples. In addition, the system's matching algorithm allows users to record both acceptable and unacceptable mismatching and search profiles.

We believe the HLA functionality of Hematos is the only system available now that can provide this level of sophistication to laboratories involved in managing tissue typing data including transplantation and stem cell projects. The system is flexible, easy to configure and supports all of the currently acceptable formats of HLA and HPA types.

Key features of Hematos Transplant Module include:

- A task management system to record and track patient events on a case by case basis
- Controlled open ended

### MEDIRisk reduces data entry lead time from weeks to hours

*Knowsley PCT achieves outstanding time savings in just two months*

Knowsley PCT's Governance Department has always worked hard to ensure that accidents and incidents on any of the PCT's sites are recorded and followed up promptly. Because their system was paper based, efficiency was hampered due to human error, difficulties in reading hand-writing and delays in sending through the forms.

The solution lay in developing a system of electronic forms. Alison Marsden the Risk Manager at Knowsley PCT already had a good working relationship with Savant and had no hesitation in sharing her thoughts on what the Governance Department needed to improve efficiency in incident reporting.

The brief involved making sure the new forms were:

- Easy to use by all staff
- Available on the Knowsley PCT's intranet
- Straightforward to complete - through the use of drop down menus
- Interactive - allowing the Clinical Governance team to validate the form and provide rapid feedback
- Capable of being integrated into the main MEDIRisk system

of technology features and options:

- Personal Digital Assistant (PDA) devices to be carried by nominated hospital staff.
- PDA alerts can be sent from the cart when stock levels need to be checked or updated.
- A live tracking option makes sure medical teams know where each Resus:Station is located at all times.

The Resus:Station is currently undergoing vigorous trials in several hospitals in the UK and early indications are extremely positive.

entry of clinical data and events

- An integrated and configurable search engine which can be used to match all types of donors and patients including HLA and/or HPA type, virology results or any other valid test result data
- Extensive reporting for test results, search outcomes and clinical cases
- Rapid manual entry of HLA antibody results using any cell type of method
- Automated inclusion of HLA results into the system using Luminex technology
- Management of product processing, testing and issue
- Transplant traceability
- Ability to export data to external databases.

Hematos was originally designed in 2000 for use by blood transfusion centres and hospital testing laboratories. It is extensively used and trusted by many organisations including national blood services in many countries. This new module, Hematos Transplant, will be available from Quarter 2 2009.

The new forms use Adobe's PDF format. Clare Green from our development team explains: "Most people are familiar with the Adobe format and are happy completing PDF forms. It also means that the governance team can amend the forms as needed."

**"...No need for telepathy anymore..."**

Knowsley are delighted with the results and the new forms have been greeted enthusiastically among all users. One such happy user wrote to us saying: "**The new system is so much easier than the paper system - forms are now quicker to read and we can easily add additional information when needed, particularly in cases where we need to contact the user to obtain a better description of the incident which may not be clear to anyone not present at the time - no need for telepathy anymore.**"

