

EpiQuestLive

Patient Management & Infection Control Surveillance System



**Epiquest
created 12 years ago,
fights infection, saves
lives and drives down
healthcare costs. Clients
throughout Canada
and the USA.**

**“LIVE”
real time version
now available for the
UK.**



EpiQuestLive

EpiQuestLive was preceded by EpiQuest LLC which from 2001 to 2008, issued over 100 licenses to US hospitals for the installation of its infection control system. EpiQuest was invited by the NHS to take part in the 2006 NHS Aseptic Trial and this brought it to the UK and the subsequent involvement of UK systems managers and programmers.

Post the trial, EpiQuestLive was formed to create, install and validate a new web based and real time infection prevention, surveillance and control software system. Development was in hospitals in Florida, Ohio and Nevada and has been running successfully in these hospitals for the past two years. Development has continued to enable the EpiQuestLive software to be fully comprehensively tried and tested.

THE COMPANY

For the past two years, EpiQuestLive has been researching the UK market and has appointed Uniplex UK Limited and it's medical sales force to sell EpiQuestLive.

EpiQuestLive has been widely welcomed by hospitals across the UK as it fills a need that currently is not fully addressed. Its database holds ALL of a hospital's data (or as much as has been delivered) and is now being viewed as a basis for a hospital management information system thereby creating savings in areas other than infection control.

Key management are as follows:-

Sir Aubrey Brocklebank - Chairman

Chris Saunders - Chief Executive

Aidan Cartwright - System Architect

Bob Herrman - Head of Programming

THE EPIQUESTLIVE SYSTEM

EpiQuestLive has ALL data from a hospital's computer systems and is often the only facility where individual systems can talk to each other. Our presentations now include consultants and senior trust members who are starting to appreciate the wealth of data available and the information flows that can be exported from the system.

Modules in EpiQuestLive:

| | |
|---------|----------------|
| PAS | Pharmacy |
| Micro | Radiology |
| Surgery | Bed Management |

And the above modules generate:-

Nurses notes & diary

Bedmapping

Antibiogram

Alerts 60 in library

Internal Reports 100 in library

Further Alerts, Internal and External Reports customised as required.

Information flows in 'real time' to healthcare professionals, hospital management, and other agencies.

Training – initial user training and continuing support is given followed by a post installation review three months into EpiQuestLive where suggestions will be made as to 'best practice' in using EpiQuestLive.



LIVE FEATURES

EpiQuestLive is a software system that integrates with all (or as many as possible) of the hospital systems for example the Patient Administration System, Laboratory, Surgery, Pharmacy, Radiology, Bed Management etc. It monitors all of the data traffic via HL7 (Health Level 7) messaging.

Whilst EpiQuestLive was specifically developed for Infection Control, it is the one place that brings together all hospital systems and is now becoming the information system for management and used as a solution in other areas.

The patient dashboard shows the patient activity for ALL admissions for that patient and includes full patient information, admission details (this is a vast amount of information including next of kin, diagnosis, procedures, ward/room/bed history, allergies, admitting doctor, referrals, height, weight, service type even apgar scores (if applicable), the list goes on, laboratory, surgery (pre-op/intra-op/post-op), radiology, pharmacy (ordered and given), infection register, monitored infections, devices, bed management.

The alerts engine is very powerful and can alert on practically anything you can imagine. For example alert if a patient returns to the hospital and has had MRSA previously; Alert for certain vital signs; alert for infection type 'x'; alert if 3 cases of Cdifficile occur in 24hours; alert if a particular bug is found that is resistant to a particular drug; alert if a patient is recorded as having diarrhoea; alert for AIDS detection; alert for isolation required. The list is endless and unlike all other systems we have left the system open so that new alerts can be created from scratch very easily.

Alerts and reports can also be sent to anyone you elect to send them to by email, pager, smartphone, tablet etc.

The reports engine is also incredibly powerful and has the same open architecture to create reports as needed. A very good example of this is an Antibigram report which shows the effectiveness of drugs against bugs. It is a mandatory report all over the world to prevent the creation of superbugs. In one hospital in the USA they typically spent 3 months every year collating the information to produce this report, they now use our system and it takes about 15 minutes.

The reports engine can produce any number of graphs, statistical analysis, comparisons to norms, standard deviations etc. Another nice feature of the reports is that once created you can schedule the report to be produced and emailed to you (or sent to a secure server) at a set time e.g. every 24 hours. You can also export the reports in many formats, eg. Excel, PDF, Word, HTML etc.

At one of our USA hospitals, all 136 computer systems have been replaced for one single supplier's systems. The one remaining system is EpiQuestLive as they say they could not be without us.

One thing to stress is that all of the information is LIVE and imported from hospital systems automatically i.e. manual entry is not required.

In the USA the system is used to report directly to CDC NHSN (Centre for Disease Control, National Healthcare Safety Network) - one of only 6 vendors in the world accredited to do that. We are now commencing an R&D project with NI HPA to look at similar reporting.

The system is built entirely in web based technology making it as future proof as possible and is constantly evolving with new modules being developed. .

BENEFITS OF INTRODUCING 'LIVE'

Humanitarian

- Identifies community acquired infections upon patient admission.
- Saves lives and reduces hospital stay .
- Reduces infection spread.

Operational

- Increases bed availability and reduces adverse effect on other areas.
- Reduces secondary costs e.g. deep cleaning.
- Leads to greater knowledge and better operational practices.
- Management tool in creating an infection control plan.
- Information derived creates management / staff accountability.
- Computer does the work, puts staff in a position to concentrate on treatment.

Financial

- Even a small reduction in HAIs will reduce treatment and operational costs.
- Reduction in admin procedures creating "efficiency hours" which can be monetarised and used to either increase productivity or reduce cost.
- Comprehensive database can be used to provide hospital information system for all areas.
- Full history and audit trail to use in defending any legal claims (average £70k per incident).

Investment Return

- Immediate savings will exceed costs giving a one year payback.

WHY BUY AN INFECTION PREVENTION, SURVEILLANCE AND CONTROL SYSTEM

The 'EPIQUESTLIVE' Infection Control & Surveillance system is in 'real time' which gives doctors and nurses the knowledge to take immediate action that will reduce human suffering, infection spread and treatment costs. Isolating patients, monitoring both staff and other patients in recent contact with the infected patient will contribute to lowering cases of HAIs and give a better chance to fight the annual norovirus outbreak.

At present, infected patients spend on average an extra 11 days in hospital at an average additional cost of £12k. Within seconds of an infection being recorded in any hospital computerised system, an alert will be sent to: infection control, designated nurses and doctors via computer screens, tablets, SMS. Everything relating to the patient will be collated and shown on one screen; there will never be a need to look elsewhere. An online antibiogram records the performance of drugs versus bugs.

WHY THE SYSTEM BOUGHT SHOULD BE EPIQUESTLIVE

- Totally comprehensive by linking to ALL of a hospital's primary systems.
- An 'open' system – amendments, upgrades, customised requirements can easily be added.
- Customer service during installs, training and continuing support are geared to ensure a hospital gets a system that truly does what the hospital requires and operates to 'best practice'.
- Modular and can be installed as one system or built according to customer requirements and/or budgets.
- Able to generate information for any area of a hospital to improve operating practices, information to health professionals and management
- Savings made across the hospital (not just in the IC Department) give a better investment return and a better justification for purchase.
- Rental and Purchase options are available.

