



CASE STUDY

TPP and FDBE work together to support SystemOne users

Established in 1998, TPP is the UK leader in centralised clinical systems for primary and secondary care. Having a proven record of technical expertise and innovation, TPP sets new industry standards by developing, deploying and supporting healthcare systems of pioneering design and advanced features, therefore freeing up clinicians to focus on patient care.

The company's product, SystemOne, is a suite of clinical systems used in a wide range of healthcare settings from GP practices to prisons, homeless centres to emergency departments. SystemOne is an NHS Connecting for Health accredited system and has been selected as a GP System of Choice.

TPP has worked with First DataBank Europe (FDBE) since 1999 and its SystemOne incorporates the Multilex Drug Data File (Multilex DDF) which provides clinical decision support to help reduce medication errors and improve patient safety.

PRIMARY CARE

"Multilex DDF was selected as it offers the best clinical decision support on the market. Knowing that there is a dedicated team of specialists working on the knowledge base assures me that the data is of the highest standard."

Satvinder Virk
Director of TPP

About TPP

Since 2004, TPP has been working with Local Service Providers (LSPs) within NHS Connecting for Health's National Programme for IT in England to deploy SystemOne GP, Child Health, Community and Prison to healthcare organisations in the North Eastern and Eastern regions. In 2007, this area extended to cover the whole of the North, Midlands and East, and in 2008, with the advent of GP Systems of Choice, SystemOne became available in the Southern and London regions.

SystemOne GP is being used in over 750 GP Practices and TPP continues to work with LSPs to provide healthcare organisations across the country with its suite of clinical systems.

TPP's use of advanced technologies allows patient records to be shared between legitimate carers through the use of a remote central server.

The system provides one record for one patient at the point of care, which means that the right information is available to the right person at the right time, no matter where they are – at the GP practice, A&E department, community facility, hospice or any other healthcare setting using SystemOne. Available in

real-time, SystemOne provides a full and detailed patient record, allowing legitimate users access to a complete picture of the patient's history and enabling the delivery of even better patient care.

Working closely and strategically within the NHS framework and in consultation with clinicians, TPP incorporates support for all the latest upgrades to address the government's vision of a patient-centric health service.

Integrating Multilex DDF

In 2001, TPP integrated FDBE's Multilex DDF, the UK's leading drug knowledge base, into SystemOne to support safer prescribing and improve patient care. Multilex DDF provides SystemOne with comprehensive clinical and commercial information on all UK pharmaceutical products and provides active clinical decision support.

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First DataBank Europe is the UK's leading provider of drug knowledge bases and active clinical decision support.

Through the effective integration of our products into clinical systems, we enable safer prescribing, dispensing and administration.

NHS Connecting for Health has chosen First DataBank Europe to provide drug-related clinical decision support.

Benefits of Multilex DDF within SystemOne

When a clinician wishes to prescribe medication using SystemOne, the system accesses Multilex DDF's comprehensive drug picking list. Once a clinician selects a medication, Multilex DDF checks this against the patient's record and generates an alert message if there are potential clinical problems. Multilex DDF's clinical decision support alerts SystemOne users to potential drug-drug interactions, sensitivities, contraindications and precautions, drug doubling and therapeutic doubling. These alerts support clinicians with their decision making and are vital in helping to reduce prescribing errors.

Jim Welford, GP at the Carlton Medical Practice Health Centre in Bradford, comments: "Multilex DDF's interaction checking is excellent and has proved invaluable to my work – I always pay attention to the three and four star interaction alerts as I know that the information supplied can be trusted."

In addition to the clinical decision support, TPP has integrated Multilex DDF's reference information into SystemOne. By clicking on the Information button, users can access a wealth of information on a chosen drug such as dosage, side effects and patient counselling information – a useful tool when additional information on a drug is needed.

The system also includes a function to check a patient's medical history using Multilex DDF's action groups. Action groups can be used to view families of related drugs and are helpful when searching for an alternative medication for a patient. By clicking on an action group, the system clearly displays which drugs from within that particular group a patient has taken. This is set out on a time line so users can also see when the patient was taking the drugs and for how long.

Jim Welford continues: "Multilex DDF's reference information comes in handy when I need to investigate a drug further. I refer to the dosage information frequently. Action groups are particularly useful as they are user configurable and I like the fact that I can zoom in and out of a patient's history."

SystemOne users can be assured that the medicines information within Multilex DDF is of the highest quality. FDBE has a large, dedicated team of pharmacists, clinicians, clinical researchers, healthcare informaticists and software developers who maintain the knowledge base and ensure it is at the forefront of product developments within the clinical decision support arena.

The future

TPP and FDBE continue to work together, drawing on expertise from both organisations, to ensure that new developments are implemented into SystemOne and users continue to benefit from a truly innovative, patient-centric clinical system.