



ENHANCED CLINICAL DECISION SUPPORT
AT YOUR FINGERTIPS


FIRSTDATABANK



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First DataBank Europe (FDBE) is the UK's leading provider of drug knowledge bases and active clinical decision support software. With over 25 years' experience of maintaining, developing and implementing drug knowledge bases across the entire healthcare spectrum, FDBE has unrivalled expertise and knowledge in the field of clinical decision support.

Patient safety is the driving force behind our business. Through the effective implementation of our clinical decision support software, we enable safer prescribing and dispensing at the point of care, helping clinicians to avoid potential medication errors.

Working closely with a wide range of leading system suppliers to integrate our products into clinical systems across primary care, secondary care, community pharmacy and other healthcare environments, FDBE delivers real patient safety benefits.

We have a large team of pharmacists, clinicians, clinical researchers, healthcare informaticists and software developers who maintain the drug knowledge base and ensure we are at the forefront of product developments.

Our vision is to be the defining standard of clinical decision support in the healthcare market. Clinical decision support is our core competency and we are committed to delivering the best solutions. FDBE is the only clinical decision support provider to be used extensively across such a wide variety of healthcare settings. Our broad experience and in-depth industry knowledge combined with our dedication, focus and energy means we are well-positioned to achieve this vision.

FDBE is an associate of First DataBank (FDB), the worldwide leader in the provision of integrated drug databases. Both FDBE and FDB are owned by Hearst Corporation, one of the world's largest diversified communications companies, whose stated goal is to establish the First DataBank businesses as truly global providers. Hearst Corporation is fully committed to the UK healthcare marketplace and has the resources to ensure that FDBE continues to evolve and grow.



ENHANCED CLINICAL DECISION SUPPORT YOUR ESSENTIAL SOURCE

Clinical decision support – enhancing patient safety

FDDE's clinical decision support is designed to assist clinicians throughout the prescribing and dispensing processes by providing relevant clinical information. Clinical decision support software checks the medication about to be prescribed or dispensed against information held in the Electronic Health Record and generates an alert message if there are potential clinical problems. By supporting clinicians in this way, we play a key role in helping to reduce medication errors.

Multilex Drug Data File – the UK's leading drug knowledge base

The Multilex Drug Data File (Multilex DDF) is the UK's most comprehensive and widely used drug knowledge base. Multilex DDF holds clinical and commercial information on more than 75,000 pharmaceutical products and packs and provides patient specific clinical decision support at the point of care.

Active clinical checking

When linked with the Electronic Health Record, the clinical decision support within Multilex DDF is able to carry out the following checks:

- Drug-drug interactions – to check if the medication about to be prescribed or dispensed interacts with the patient's current medication. All drug-drug interactions are rated by severity.
- Sensitivities – to check if the medication about to be prescribed or dispensed contains the same or related active ingredients to any previous sensitivities recorded on the Electronic Health Record.
- Contraindications and precautions – to check the medication about to be prescribed or dispensed against the patient's age, sex and any recorded medical conditions.
- Drug doubling – to check the medication about to be prescribed or dispensed against the ingredients of a patient's current medication for duplication of ingredients.
- Therapeutic doubling – to check that the medication about to be prescribed or dispensed will not duplicate the effect of a patient's current medication.
- Dose range check – to check if the dosage about to be prescribed or dispensed is within a safe range for a patient's age and weight.

In addition, Multilex DDF provides patient safety messages for methotrexate and other high risk drugs, according to guidance by organisations such as the National Patient Safety Agency and the Commission on Human Medicines.

Reference sources such as Patient Information Leaflets and TICTAC product images can also be accessed for many products via Multilex DDF.





Maintaining the drug knowledge base

FDDB uses a wide variety of sources to ensure that Multilex DDF maintains its leading position. A range of publications are assessed and evaluated by our active triage team so that new medicines can be added to the database as they are launched. All clinical information is reviewed and updated regularly in accordance with strict editorial policies to ensure a consistent approach.

FDDB operates a Quality Management System that is certified to the latest ISO 9001:2000 standard and all operating procedures are audited on a regular basis.

Clinical coding and drug terminologies

Multilex DDF is linked to a wide range of clinical terminologies and coding systems including Read 2, Clinical Terms Version 3, the NHS Dictionary of Medicines and Devices (dm+d) and the Systemised Nomenclature of Medicine Clinical Terms (SNOMED CT).

NHS Connecting for Health has set SNOMED CT to be the UK standard for the recording of medical conditions and allergies, and dm+d for the consistent identification of medicines and medical devices. FDDB is proud to have been one of the first clinical decision support providers to integrate these standard terminologies into its drug knowledge base.


Our expertise in drug terminologies is based upon extensive experience in integrating clinical decision support with existing standard or local medication lists.

Customer implementation services

Our customer implementation team works closely with customers to help integrate our products into their systems effectively and to enable them to make the best use of our expertise. We offer two main models of integration – ASCII data files and software toolkits, also known as application programming interfaces (APIs).

ASCII data files contain the raw drug data in tables. These files offer maximum flexibility for development as customers are able to use their own data structures and to select which items of data they wish to implement.

For those customers who prefer not to undertake this level of development, FDDB also provides API toolkits. These are essentially a layer of software between the data and the end user system, which support a range of functions from simple data access to complex processes such as drug interaction checking. Our toolkits shield our customers' developers from complicated database structures and are fully regression tested, which makes the development process faster and more efficient.



**SUPPORTS PRESCRIBING AND
DISPENSING DECISIONS**

JUST AT THE RIGHT TIME

Multilex Browser

FDBE also provides the Multilex Browser, a stand-alone browser providing quick and easy access to the clinical and commercial information contained within Multilex DDF. Easy to install and operate, the Multilex Browser displays clinical information as textual monographs and in a coded format for convenience. Hospital pharmacists find it useful for clinical screening and in on-call scenarios, as all the information required is in one easily accessible place.

The Multilex Browser is a comprehensive reference source and can provide real and valuable support to healthcare professionals.

WORKING WITH

LEADING HEALTHCARE PLAYERS



FD BE works with an impressive portfolio of system suppliers across the healthcare community in the UK and overseas, providing support to a wide range of healthcare professionals. System suppliers choose FD BE's products because of our knowledge and expertise in this area, the software we provide to ease integration into clinical systems and the extensive use of our products across healthcare scenarios.

Primary care

FD BE supplies the majority of UK primary care systems and has been working for many years to ensure that it is able to meet the changing requirements of GPs and primary care organisations. We have worked to help our customers in such varied areas as the Electronic Prescription Service (EPS) and GP system interoperability, as well as enabling our customers to meet clinical decision support accreditation levels.

Community pharmacy

Multilex DDF supports community pharmacists with all aspects of medicines management and complements the patient counselling process. New opportunities and responsibilities such as supplementary prescribing and Medicines Use Reviews (MURs) mean that increasingly pharmacists require access to high quality medicines information in order to improve patient care.

FD BE also produces an Endorsing and Reimbursement Toolkit which uses the complex regional Drug Tariff endorsing rules to provide automatic prescription endorsement. This results in significant business benefits due to the reduction of manual endorsing and the provision of a wide range of forecasting and management information.

Secondary care

FD BE has invested considerable resource to develop its drug knowledge base to meet the requirements of healthcare professionals in the secondary care sector. Multilex DDF is used within many areas of the hospital, and in many specialist systems, from electronic prescribing, transcribing and dispensing to oncology systems. We have also developed functionality to offer clinicians a rapid, intuitive drug selection process allowing accurate, unambiguous prescribing. When combined with suitable dosage instructions, the need to select a specific product or strength is often eliminated.

Other healthcare areas

Our products are used extensively in the out-of-hours sector, and in many other healthcare areas, such as mental health, social care, medical schools and private healthcare organisations.

NHS Connecting for Health has chosen FDBE to provide drug related clinical decision support to the National Programme for IT for England – the largest civil IT project in the world. FDBE also has a national contract to provide drug information and clinical decision support to NHS Scotland, and we are supporting the Informing Healthcare programme, the strategy for the delivery of healthcare services in Wales.

Through these key strategic partnerships, FDBE is committed to supporting its customers by actively influencing the wider healthcare agenda.

International

FDBE also provides drug information and clinical decision support to healthcare markets outside of the UK and has organisational responsibility for Europe, the Middle East and Africa (EMEA). Our products have been used for many years in Ireland and we are developing new products to meet the requirements of other international markets. To meet the challenges of implementing across regions, we have developed an international API for integrating drug content into information systems quickly and economically. This is particularly suitable for those looking for a solid foundation upon which to build a global solution.

Customer support

Our commitment to quality ensures that support for our customers extends beyond the products we deliver. Once implementation is complete our customer implementation team, software developers and clinicians continue to provide assistance. A support desk is also in place to help both customers and users on a daily basis.





The future of clinical decision support

FDBE is determined to remain at the forefront of patient safety improvements. We run an active product development programme based upon feedback from customers, national requirements and newly emerging standards for clinical systems.

By continually improving the ease with which our products can integrate with clinical systems, we are confident that our customers can also remain at the forefront of new patient safety initiatives.

FDBE is excited to be embarking on work to further enhance existing decision support while also developing new functionality. We are working with clinicians to tackle alert fatigue by streamlining alerts and pitching them at a level that is appropriate for all types of prescribers, novice or otherwise. As providers of clinical decision support and referential information we are acutely aware of the risk of information overload and are implementing additional flexibility for systems to filter alerts and warnings according to user need.

Our aim is for our clinical decision support to be used not only at the point of prescribing and dispensing but throughout a patient's journey through the healthcare system. There is a real opportunity to improve the lives of patients by preventing the occurrence of medication errors. FDBE has the determination and passion to make this happen.

Find out more

If you would like more information about our products and how First DataBank Europe can help you improve patient safety, please contact us on **+44 (0)1392 440 100** or visit our website **www.firstdatabank.co.uk** We look forward to hearing from you soon.



IMPROVED PATIENT SAFETY
DRIVING OUR BUSINESS



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