



First DataBank Europe is committed to delivering the best solutions. We value your feedback and are keen to hear your thoughts and ideas on our future developments.

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## PRODUCT DEVELOPMENTS

At First DataBank Europe, our vision is to be the defining standard for drug-related clinical decision support across all healthcare settings. Our knowledge and expertise have been gained over many years as a key provider to healthcare and from our partnerships with customers and end users. The incorporation of national standards into our products ensures that First DataBank Europe is set to offer a 'one stop' solution to support the next generation of clinical decision support.

**Our exciting programme of developments puts First DataBank Europe (FDBE) firmly at the forefront of progress within the clinical decision support arena and includes:**

- Innovative approaches to aiding clinicians to select the optimal medication for a patient
- Increased use of the medication context to target alerts and referential information more closely to the patient
- Provision of timely prompts and reminders to support medicines management throughout a patient's treatment
- Brand new decision support modules such as a module for managing adverse events, and a new referential product, to facilitate improvements in the use of medicines

Read on to find out more.....

**Supporting secondary care**

The prescribing and administration process in hospitals is complex. FDBE aims to provide a seamless transition from current paper based prescribing practice to electronic prescribing, in order to deliver the benefits of clinical decision support to patients in acute settings.

Using an orderable medication as a stepping stone to navigate to a number of pre-built order sentences, our solution will enable rapid and intuitive prescribing in the fewest possible steps. Appropriate choices for administration and dispensing will also be provided, further streamlining the medications management process.

**Dose**

FDBE is developing its dose information to enable clinicians to choose from a selection of dosages tailored to characteristics such as patient condition and age. Use of automated dosage suggestions reduces reliance upon memory, the inconvenience of accessing multiple reference sources and the well-documented risks associated with manual entry of numerical dosage values and units.

In order to support manual entry of dosages where they are necessary, FDBE is increasing the scope of the Dose Range Check module to include indication based doses to verify that the dosage entered falls within a safe range for a specific patient condition.

**Drug indications**

FDBE is developing a number of new solutions based around indications of the medication and the desired therapeutic effect of the treatment for a patient. This new functionality will provide a list of suitable medications to treat a selected condition. If the product conflicts with certain elements within the electronic patient record, the prescriber can be provided with a list of suitable alternatives which can be used to treat the same indication.

**Management of adverse events**

This new module will support checking of reported symptoms to determine whether one of the patient's current medications is likely to be the cause. Advice on symptom management or discontinuation of the medication in the event of adverse effects will also be provided. The module will be able to work as a stand-alone function or within a consultation, monitoring new presenting complaints as they are recorded.

**Reference product**

FDBE is enhancing the referential information available within the Multilex Drug Data File (Multilex DDF) to supplement the alert messages provided through the active decision support modules. The new reference product will not only give clinicians the opportunity to obtain further background information on the reason and context of the alert messages but will also provide access to information about the ongoing management of a patient's medication.

The referential information will be available for integration within clinical systems but also through stand-alone PC or PDA based reference tools to support Multilex DDF users on the move or based in multiple settings.

**Alert management**

FDBE is systematically reviewing and enhancing its decision support modules to ensure that alerts are closely targeted to the patient and healthcare context. Following the review of the sensitivity module, the condition checking, duplicate therapy and drug interactions modules will be redeveloped.

FDBE is exploring new methods of targeting medicines information more closely to the needs of users in all healthcare settings and to the context of the patient. Knowledge of what the medication is being used for, and a better understanding of the context behind the decision support request (be that prescribing, dispensing, administration, review or simply education), will enable alerts and referential information to be filtered in order to provide the information which is most pertinent to the current scenario.