

**Welcome to our Newsletter 1/2006**

We would like to give you a brief overview of what Medexter Healthcare does, who we are, and what we can do for you.

**Medexter Healthcare—Providing solutions for medical decision support.****About Medexter Healthcare****Mission**

Medexter Healthcare develops and markets knowledge-based systems for medical decision support. The aim of these high-tech software solutions is to promote quality assurance in diagnosis, therapy, prognosis, and patient management. Given the growing complexity of medical data, these systems have become indispensable. They save the effort of performing repetitive and laborious work steps and allow physicians and medical personnel to devote more time and attention to patient care. The purposes of our innovative software solutions are three-fold: a) to safeguard medical quality and improve patient care; b) to allow comprehensive quality management that takes into account medical workflows and administrative conditions; and c) to achieve efficient and cost-effective utilization of the available resources.

**Core competence**

Our core competence and expertise are focused on solving methodological and practical questions relating to medical knowledge representation and medical knowledge processing. These efforts culminate in the creation of highly structured digitalized medical knowledge. We achieve this through the application of various formal methods, particularly fuzzy set theory and fuzzy logic. In addition, we have extensive experience in the use of such systems in hospitals, laboratories, and doctors' offices, as well as the integration of the systems into existing medical information systems.

**Technology management**

Technically, medical knowledge processing is performed by software systems that provide recommendations on the basis of digitalized knowledge stored in medical knowledge bases and the patient's current medical data collected in the respective medical information system. The R&D activities are managed by our scientific head Professor Klaus-Peter Adlassnig, PhD.

**Partnerships with leading medical specialists**

Our R&D strategy is focused on co-operating with leading medical specialists and researchers. Our long-term success in the market is mainly due to the fact that we use cutting-edge findings of medical research and apply evidence-based medical knowledge. As a spin-off company of the Medical University of Vienna, we intend to proactively shape the quality and cost management of health care systems by implementing our high-tech software solutions and our innovative business model.

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**medexter-ArdenEngine/JAVA**

The medexter-ArdenEngine/JAVA SW 1.0 together with an ARDEN development environment allows you to write, compile, test, and execute Medical Logic Modules (MLMs). These MLMs are available in the medical knowledge representation language Arden version 2.5—according to the latest Health Level 7 ([www.hl7.org](http://www.hl7.org)) standard of the "Arden Syntax Special Interest Group". In addition, we offer an optional service and upgrade guaranty for the ArdenEngine/JAVA that consists of:

**ArdenIde (integrated development environment)**

ArdenEditor: word processing with supporting components that allow you to edit MLMs;  
ArdenAdministration: administration system for MLMs;  
ArdenCompiler: compilation of Java binaries for Arden version 2.5;  
ArdenTest: component to call individual test MLMs;  
ArdenLog: component for continuous logging when executing MLMs.

**ArdenEngine**

Interface to the system that selects the compiled MLMs. The ArdenEngine approves the transfer of external objects that implement the evaluation of curly-bracket expressions.

**Delivery**

As an external Rule Engine: ArdenEngine, as well as all components of the ArdenIde, are offered as a JAVA-Jar. Various definable interfaces (XML, HL7, etc.) enable communication between the external Rule Engine and the calling software.  
To be integrated as a source code: The components of ArdenCompiler and ArdenEngine can be provided as a compilable JAVA 5.0 source code. Thus, the medexter-ArdenEngine can be directly integrated into a host application (information system, medical office software, web software, etc.).

**News flash****Website relaunch**

Medexter Healthcare has successfully relaunched its corporate website, offering you an overview of all our currently available solutions and products. Our website allows you to view many of our products as online test versions, including nearly all product features. Please visit us at [www.medexter.com](http://www.medexter.com).

**Exhibitions and conferences**

We look forward to meeting you personally at the several exhibitions and conferences we will be attending in 2006: World Congress on Internet in Medicine, **MEDNET Toronto**, Canada, October 13-20; International Special Topic Conference on Information Technology Applications in Biomedicine, **ITAB Ioannina**, Greece, October 26-28

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