

Arden Syntax and clinical decision support

The last years brought visible progress in the further development of Arden Syntax, its software implementation and interoperability, and its utilization in routinely-used clinical decision support systems.

Arden Syntax development

A team effort of the [Arden Syntax Working Group](#), among them associates of Medexter Healthcare, yielded the approval of the Health Level Seven Arden Syntax for Medical Logic Systems, Version 2.8, by Health Level Seven International (HL7). On 13 March 2012, this version was also approved by the American National Standards Institute (ANSI). At present, the Working Group discusses a proposal to [extend Arden Syntax by fuzzy concepts](#), to be able to formally capture the inherent linguistic uncertainty of clinical concepts.

Arden Syntax implementation and interoperability

Main progress in the extension of [Medexter's Arden Syntax software](#) components was made with respect to their integration with outside systems.

First, three Arden Syntax servers (development, quality assurance, production) were integrated with Siemens' hospital information system i.s.h.med. [Webservice-based SOAP interfaces](#) allow the communication between the [Arden Syntax servers and i.s.h.med.](#) Arden Syntax medical logic module (MLM) authoring is done using the [Arden Syntax integrated development and test environment \(IDE\)](#).

Second, [access to Vista's patient data repository](#), Vista is the medical information system of the Veterans Affairs Administration in the U.S.A., was established by using the Gello query and expression language, also an HL7 standard. Here, Gello expressions were used inside of Arden Syntax's curly braces to access Vista's data.

Arden-Syntax-based clinical decision support

The largest Arden-Syntax-based clinical decision support application offered by Medexter is [Moni-ICU](#), an automated surveillance and monitoring system for ICU-acquired infections. It comprises a number of software components (data import routines, data and knowledge services center, Arden Syntax engine, web-based cockpit presentation, reporting tools, and an extended knowledge package of Arden Syntax MLMs.

A second routine application is Hepaxpert, an expert system for the interpretive analysis of hepatitis serology test results. Hepaxpert is available on our telemedical clinical decision support platform [Teleiatros](#); or as Arden Syntax MLM package.

News flash

Medexter Healthcare will attend the annual trade show "Connecting Healthcare IT" [conhIT](#) in Berlin, from 24 to 26 April 2012, as an exhibitor, hall 2.2/D-107.

On Wednesday, 25 April, our CEO and Scientific Head, Professor Klaus-Peter Adlassnig, will give a presentation on "Clinical decision support in practice" as part of the academy program, which accompanies conhIT ([session 6 / room 2 / knowledge-based applications](#)).

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