

## ARDENSUITE Connected with Dräger's Intensive Care System

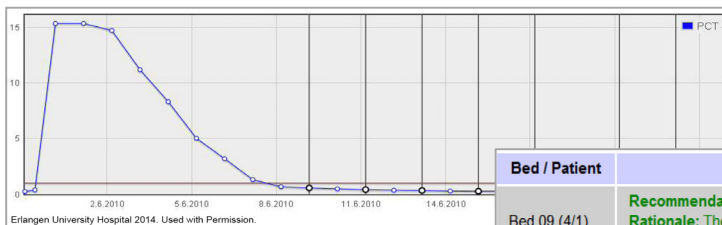
Medexter's ARDEN SUITE software products—the ARDEN SUITE server, ARDEN SUITE integrated development and test environment (IDE), and database connector—have been successfully brought into clinical routine at the Erlangen University Hospital in Erlangen/Germany in December 2013. The Erlangen University Hospital purchased Medexter's ARDEN SUITE campus license, which enables them to use the ARDEN SUITE software products in patient care as well as for research and teaching purposes.

### Clinical MLM Development in Erlangen

The ARDEN SUITE software is currently being used in clinical operation at a large surgical intensive care unit (ICU) with 35 beds. Medical logic modules (MLMs) that support the clinician in over 20 clinical situations have been written and tested by the hospital's clinical and development staff using the ARDEN SUITE IDE; the development of further MLMs is in progress.

### Bed-Side Clinical Decision Support

Accessible from Dräger's Integrated Care Manager (ICM) system, an MLM viewer gives an overview and serves as a tool for calling the MLMs from every computer in the ICU, also bed-side. Thus, the application provides clinicians per mouse-click with patient-specific clinical decision support on issues such as procalcitonin (PCT) value measurement, detection of hyper- and hypocalcaemia, Murray score calculation, MELD score calculation, patient-oriented microbiological survey, and more.



Graphical depiction of one patient's procalcitonin levels.

Automatically generated recommendations to measure or not to measure (cost savings!) new levels.

Bed / Patient #anonymized#	Recommendation
Bed 09 (4/1) #anonymized#	<b>Recommendation:</b> Do not measure PCT now <b>Rationale:</b> The latest PCT measurement is not older than 36 hours (6 hours 22 minutes) The latest PCT measurement (0.38 ng/ml) does not exceed the threshold of 1 ng/ml The current PCT trend (-0.06 ng/ml/24h) does not exceed the threshold of 0.20 ng/ml/24h
Bed 10 (4/2) #anonymized#	<b>Recommendation:</b> Measure PCT now <b>Rationale:</b> The latest PCT measurement (3.19 ng/ml) exceeds the threshold of 1 ng/ml
Bed 11 (4/3) #anonymized#	Criterion cannot be assessed, because no PCT values are available so far

### ARDENSUITE IDEs in Teaching

In Erlangen, Medexter's ARDEN SUITE is used in teaching as well. In the context of medical informatics classes, students at the University Hospital are learning to develop MLMs themselves using the ARDEN SUITE integrated development and test environment, one IDE each or as a classroom project.

It's highly flexible and versatile structure allows the ARDEN SUITE to be applied to a vast amount of medical tasks and to solve clinical problems in every medical discipline. It can be integrated into Epic, i.s.h.med, and others, connected to intensive care, laboratory, and telemedical systems as well as used with mobile apps.

For details on integrating ARDEN SUITE into your clinical setting, talk to us now or contact us at [office@medexter.com](mailto:office@medexter.com).