

HIMSS[®] Turkey

**EDUCATIONAL
CONFERENCE AND
EXHIBITION**

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ANTALYA, TURKEY
Titanic Deluxe Belek, Turkey

www.himssTurkey.org



**GOING BEYOND ALERTS:
CLINICAL DECISION
SUPPORT FOR
IMPROVED OUTCOMES**

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Organised by



T.C. Sağlık Bakanlığı

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Doctors Have Clinical Questions

*Unanswered clinical questions
impact patient management decisions*

*Approximately 2 out of 3 clinical
encounters generate a question*

*Physicians have approximately
11 clinical questions a day*

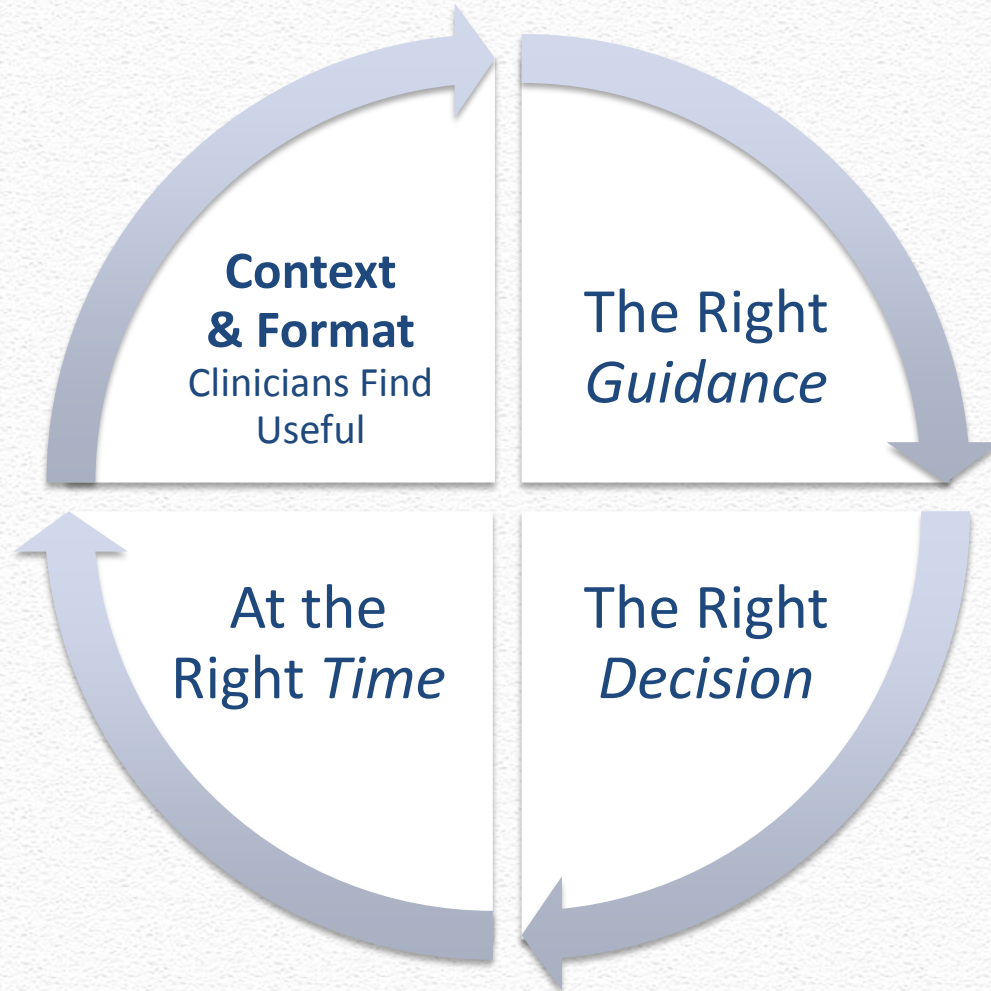
60% of questions
go unanswered

Answering all clinical
questions could change

5 to 8

patient management
decisions each day

Clinical Decision Support: Getting It Right



Clinical Decision Support Changes Clinical Decisions



37%

Researchers at *Singapore's National University Hospital* report that bedside use of UpToDate led to changes in patient care decisions 37% of the time

Associated with Improved Outcomes

Solucient¹ studied the *impact* of UpToDate on length of stay, patient complications and patient safety²

Significantly shortens lengths of stay



Significantly lowers complication rates



Significantly lowers adverse outcome rates

1. Solucient maintains the nation's largest healthcare database, comprised of more than 26 million discharges per year from 2,900 hospitals.

2. Bonis PA. Association of a clinical knowledge support system with improved patient safety, reduced complications and shorter length of stay among Medicare beneficiaries in acute care hospitals in the US. *Int J Med Inform* 2008; 77:745.

Researchers at Harvard University Find

UpToDate Associated with Improved Outcomes

Use of **UpToDate** Associated with...

Improved Quality

- *Every condition on Hospital Quality Alliance Metrics*

Shorter Lengths of Stay

- *372 000 days over 1 year*

Lower Mortality Rates

- *11 500 lives over 3 years*



Economic Impact of CDS

at Salford Royal NHF Foundation

Forrester Research found Salford Royal NHS Foundation Trust (SRFT) recovered the costs of a leading Clinical Decision Support System in 90 days

Benefits Included:

- Staff productivity
- Diagnostic test efficiencies
- Improvements in the quality of care



Salford Royal **NHS**
NHS Foundation Trust

University Teaching Trust



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Source: November 2011, Forrester Research: *The Total Economic Impact Of UpToDate's Clinical Decision Support System For Healthcare Institutions: A Case Study Of Salford Royal NHS Foundation Trust in the UK*

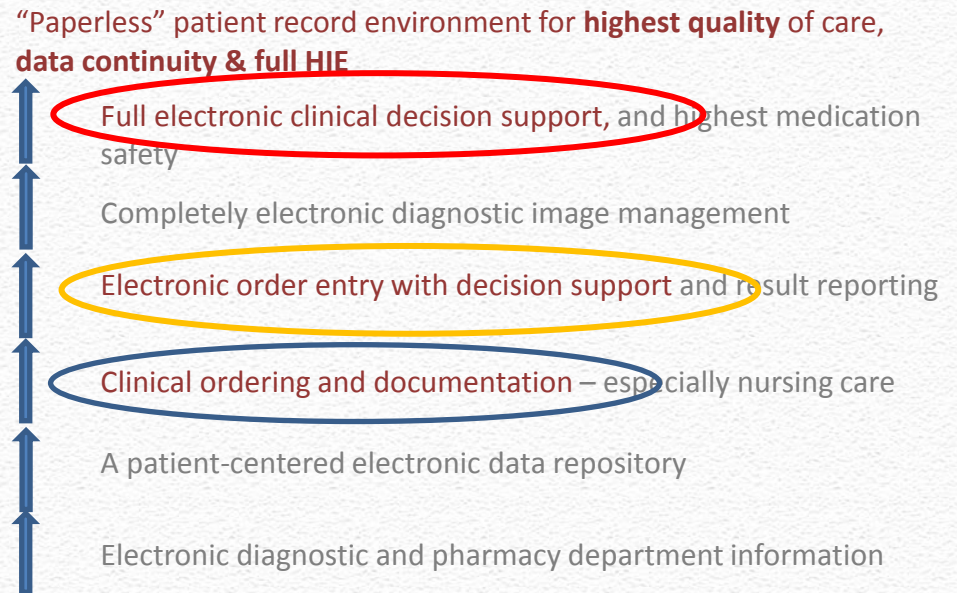


One Roadmap for the Future

The European EMR Adoption Model in 7 Stages to Highest Quality in Patient Care

European EMR Adoption Model SM	
Stage	Cumulative Capabilities
Stage 7	Complete EMR; CCD transactions to share data; Data warehousing feeding outcomes reports, quality assurance, and business intelligence; Data continuity with ED, ambulatory, OP.
Stage 6	Physician documentation interaction with full CDSS (structured templates related to clinical protocols trigger variance & compliance alerts) and Closed loop medication administration.
Stage 5	Full complement of PACS displaces all film-based images.
Stage 4	CPOE in at least one clinical service area and/or for medication (i.e. e-Prescribing); may have Clinical Decision Support based on clinical protocols.
Stage 3	Nursing/clinical documentation (flow sheets); may have Clinical Decision Support for error checking during order entry and/or PACS available outside Radiology.
Stage 2	Clinical Data Repository (CDR) / Electronic Patient Record ; may have Controlled Medical Vocabulary, Clinical Decision Support (CDS) for rudimentary conflict checking, Document Imaging and health information exchange (HIE) capability.
Stage 1	Ancillaries – Lab, Radiology, Pharmacy – All Installed OR processing LIS, RIS, PHIS data output online from external service providers.
Stage 0	All Three Ancillaries (LIS, RIS, PHIS) Not Installed OR Not processing Lab, Radiology, Pharmacy data output online from external service providers.

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THANK YOU

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