

## A new approach for enhancing patient safety along the clinical pathway in hospital: the REMINE project

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## Do current approaches support patient safety effectively?

INTEGRATION & STANDARDIZATION


**Current approach:**

- Retrospective only
- Static risk assessment
- Domain specific
- Stand alone risk management tools
- Limited real time control

**REMINI approach:**

- Retrospective and proactive
- Dynamic risk assessment
- Domain adaptable
- Integrated risk management tools
- Extensive real time control

KNOWLEDGE EXTRACTION & MODELLING




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Dublin, October 14th 2009

## What is REMINE? And how does it work?

- Health record
- Barcode
- RFID

- Clinical protocols
- RM procedures


Patient (disease, hospital condition)      RM guidelines repository



Hospital Informative System

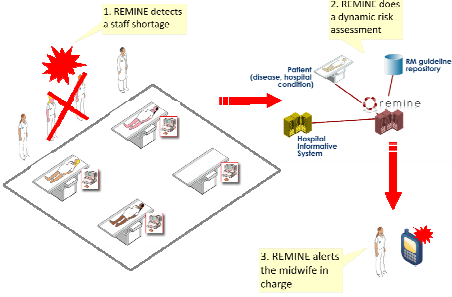
**REMINI functionalities:**

- Prediction
  - Business rules
- Detection
  - Data capture
- Management
  - Alerts
- Analysis
  - Data mining/what-if




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## REMINI in practice: the Obstetrics use case




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## REMINI in practice: other use cases

- **Use case 2: laboratories**  
Patients with stroke symptoms are monitored during their clinical pathway that includes several assessments, tests and treatments. REMINI checks that the timing of reperfusion treatment protocol is respected and prevents eventual delays due to resource "bottlenecks". 
- **Use case 3: infections**  
REMINI supports the infection management in the hospital. The system covers several tasks: the patient rank coding, the infection spread control, the infection screening and the cubicle cleaning. Furthermore, REMINI does a proactive risk assessment for preventing an infection spread in the hospital. 
- **Use case 4: drugs**  
REMINI system supports drug administration in the Acute Care for the Elderly Unit. Proper messages or alerts, based on patient condition and ward context, are sent to healthcare professionals in order to guarantee the correct match of patient with drug and time of administration. 



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