Ward Management (WM)

Overview

The Ward Management application supports all the procedures that medical, nursing and administrative staff of a clinic / department handle in their daily routine. Patient management can support patient admission/ transfer/ discharge, hospitalization data logging, nursing accountability, scheduling of appointments and surgeries, ordering, recording of medical acts, etc. Ward management can also be supported as a whole, e.g., for bed management, drug and exam orders status, etc. The application supports diagnosis-related groups (DRGs) for case classification.

The Ward Management application belongs to the nursing and medical applications family (ICS-M) of FORTH-ICS’ Integrated Care Solutions suite. It is based upon an open, scalable and evolvable architecture that integrates distributed information and knowledge in a flexible manner, focusing on the timely and effective delivery of the appropriate information to all authorized users. Being the outcome of applied research, it encompasses both state of the art trends and real-world requirements for effective use.

The main characteristics of the Ward Management application are:

- It can be installed either as stand-alone system or in combination with other ICS applications.
- It is subsystem of an integrated solution.
- It supports automation of business processes both within and between healthcare facilities.
- It can electronically interface with third party applications and open devices. All interfaces are based on standards such as HL7, DICOM, XML, and web services.
- It is customizable and scalable according to the needs of each institution.
- It supports role based access control.

Target Domains

The application is suitable for the clinics/wards in healthcare facilities.
Description

Main Functionalities
The supported functionalities of the Ward Management application include: online creation of patient admission with auto-update from the patient admissions office, staff accountability, online ordering of examinations, diets, drugs and materials, scheduling of services, creation of patient discharge notes, international classification of diseases (e.g., ICD-10) etc.

The application communicates with information systems for:

- Pharmacy Materials Management and Nutrition department for ordering, order cancellation and administration of drugs / medical supplies / diets.
- RIS/ LIS for ordering / order cancellation of examinations and viewing results.
- Business Intelligence / MIS for the electronic transmission of data for statistical analyses.

Minimum Technical Requirements

Database server: Microsoft SQL Server 2000 SP3 or Oracle 10g R2 or PostgreSQL 9.1, 8 GB RAM, 200 GB Hard Disk. Application Server: 4 GB RAM, 200 GB Hard Disk. Clients: Compatible with the latest versions of popular web browsers (e.g., Microsoft Internet Explorer, Google Chrome, Mozilla, etc.). Windows desktop version also available.

Additional Information

The ICS suite follows high quality international trends regarding both the structure of the Electronic Health Record (EHR), as well as integration with third party systems through the use of internationally acclaimed standards and protocols (like HL7, DICOM, etc.). This system is deployed at more than 20 Hospitals in Greece since 2001.

The Nursing and Medical Applications (ICS-M) family of ICS is certified with the Seal of Quality Electronic Health Record (EHR) Level 2 by the European Institute for Health Records EuroRec. The testing took place in 2011 and proved compliance with all 50 Seal-2 criteria.

Other products of the nursing and medical applications family (ICS-M) of ICS include applications for Supply Management (SM), Outpatient Clinic (OC), Emergency Department (ED), Radiology Information System (RIS), Operating Rooms Management (OR), Electronic Health Record for medical specialties: Pathology, Cardiology, Paediatrics, Orthopaedics, Intensive Care Unit (EHR), and Hospital IT Department (M-ITD).

Contact details: Dimitrios G. Katehakis
katehaki@ics.forth.gr
www.ics.forth.gr/ceha