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Using Web Services to support the interoperability between healthcare information systems and CDS systems

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Abstract

This paper presents a solution for improving communication between medical information systems using Web Services. A Web Service is used as a supporting technology to improve the interoperability between different medical informatics systems and CDS (Clinical Decision Support) systems. A demonstration is made for the communication between an Obstetrics-Gynecology Department Information System, a Pediatrics Department Information System, a General Practitioner Information System and a Clinical Decision Support System. All the applications are web-based and can be accessed using a browser. HL7 CDA (Clinical Document Architecture) and CCD (Continuity of Care Document) standards are used in order to support the entire system's interoperability. Flexibility and ubiquity in accessing vital information are the main benefits of the presented solution.

Keywords

Author Keywords: Web Service; interoperability; Obstetrics-Gynecology Department Information System; Pediatrics Department Information System; guidelines; protocols; HL7 CDA; CCD
KeyWords Plus: CLINICAL DOCUMENT ARCHITECTURE; DATA EXCHANGE

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