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## ICT Solution for Assisted Diagnosis Based on Monitoring in Cardiology Departments

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### Abstract

Monitoring the patient is an important issue in health care for taking critical decision based on evidence. The paper presents a model of the monitoring activities in cardiology departments using Business Process Modeling and Notation and Bizagy software and the consequently developed application for monitoring in cardiology departments. The application is developed in Visual Studio. NET 2012 using ASP. NET pages and C# language. The database of the application is uploaded in the cloud using the Windows Azure platform. The communication between different cardiology departments situated in different locations based on an Application for monitoring in cardiology is using HL7 Clinical Document Architecture, leading to a complete medical history of the patient related mainly on the heart disease. The data collected from different cardiology departments resides in the cloud. Having the possibility to collect big amounts of data from different cardiology departments offers the opportunity to access and process huge amounts of data important for diagnosis and prevention that help increasing the life expectancy, reduce the medical errors and provide more better care of the patient.

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