Clinical Activity Protocols Making

Fco. Javier BROULLÓN, Sabela FERNÁNDEZ DE LA VEGA, Guillermo VAZQUEZ, Begoña CID, Alberto BOUZAS, Pedro MARCOS

a R&D&I, Information Technology Department, CHU Juan Canalejo, A Coruña, Spain
b Gynaecology and Obstetrics Department, CHU Juan Canalejo, A Coruña, Spain
c Cardiology Department, CHU Juan Canalejo, A Coruña, Spain
d Pulmonary Department, CHU Juan Canalejo, A Coruña, Spain

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The objective pursued in this project is to elaborate clinical protocols in the more representative clinical areas (emergencies, hospitalization and consultations) to help the managers and professionals of the sanitary system to improve their decisions related to clinical situations, to improve the effectiveness and efficiency of the assistance activity and to provide appropriate information to the citizens to facilitate their choices.

This solution accomplish the elaboration of different types of clinical documents (depending on the clinical protocol) offering a clinical document repository for their storage; the creation of a clinical data repository that allows to share information registered by any protocol (allergies, adverse reactions, physical examination, medications, etc.); the implementation of the Medical Summary, so that the sanitary professionals can have a global vision of a patient health state; the exploitation of statistical data, allowing the professionals to know and also to evaluate the adaptation of each clinical protocol; and guarantees the information security (confidentiality, integrity, availability and non-repudiation) in application of the Spanish and community regulations with regard to personal data protection. As an additional characteristic, in consultation protocols, the activity record is done at the same time as clinical reports are elaborated, improving the load of work of the administrative staff.

To guarantee the integration with the Hospital Information System and with other information systems existing in the hospital (Laboratory, Radiology, Pathological Anatomy, Pulmonary Functional Tests Lab., Cardiology Functional Tests Lab, Hospital Pharmacy System, Nursing Information System, etc.), we are using HL7 and CDA standard, following HL7Spain implementation guidelines and IHE Technical Frameworks.

At present, new functionalities are being added: decision-making support to help in the diagnostic decisions; advanced electronic signature based on a digital certificate; notification of the document availability to other systems, generation of new clinical protocols based on certain parameters by final users, etc.

1 Corresponding Author: francisco.javier.broullon.molanes@sergas.es