A study of formation and storage of laboratory results based on HL 7 Clinical Document Architecture Standard

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Abstract

Background: The Hospital Information System is used independently to other hospit al information system, so Interoperability had been excluded. Clinical Document Archi tecture was applied in this study to maximize management of inter-hospital result inf ormation about bone marrow study and CBC test. For this, we suggested that templ ate composition and schema design for test results of HL7CDA. **Methods:** After we defined template and item criteria of bone marrow and CBC test, we designed XML schema and created effective CDA documents. Schema was analyzed based on HL7 Reference Information Model and HL7 V2.4 was used for transporting protocol. **Resu lts:** 1) It is the first trial to apply the definition of CDA for laboratory result in Ko rea as the basis. 2) It accomplished an expansion and purification of international sta ndardization so that it could be applied to domestic standardization. 3) It represented the structure of future hospital systems based on the CDA. **Conclusion :** The study for CDA makes it possible that Clinical Data Repository which is knowledge based storage of evidence oriented medicine and Electronic Health Record in future. At thi s point of time, it makes possible to share information about lab finding which is ve ry important evidence to clinical physicians for diagnosis between variable health me dical institutions.