Introduction
As healthcare is progressively becoming paperless, the need for the exchange of clinical data between health information systems is increasing. New solutions are needed to solve healthcare interoperability issues. In this context, HL7 introduced FHIR, a standard for the electronic exchange of health data.

• Hospitals, practices, labs and other health providers need to exchange clinical data
• Need for a better, more modern and cheaper interoperability solution to provide better care
• Improve mobile access to health data

Methods
• Analysis of the FHIR specification
  • Exchange paradigms
  • Resources
  • Security & Privacy
  • Use cases
  • Workflows
• Analysis and comparison of the existing tools to implement FHIR solutions
  • Libraries, Database and frameworks
• Creation of a web application to demonstrate FHIR capabilities using the HAPI java library

FHIR - Use case example

Conclusions
• FHIR provides very valuable features that allow building cheaper solutions
• The standard is well designed, it allows fast implementations
• Allows mobile access to clinical data
• HAPI java is a useful and usable tool to implement a FHIR solution
• Recent standard, hindsight is lacking