

EPR translator for emergency medical teams

kind	Master thesis
Working title	Investigation and evaluation of electronic health record translation technologies for international medical teams

The “EMT Operating System” (EOS) is a field hospital information system tailored to the requirements of specialized units in disaster operations. Its idea was developed and designed as part of the European Modular Field Hospital project. The system supports the entire patient treatment process from triage to discharge and is highly configurable to adapt to the needs of paramedics. Although EOS is primarily designed as an electronic patient record, it also includes essential functions for field hospital management.

Teams from different countries around the world usually work on international aid missions, treating patients together as required. However, no standardized documentation format has yet been established. The chosen language is also not standardized, so there is a risk that patient records cannot be reused or interpreted.

The aim of this work is to analyze ways of translating patient data from an HL7 FHIR database for the EOS system. A suitable technology is to be implemented as an example. The confidentiality of the data must be taken into account and the correctness of the translations must be validated.

requirements

- Master's degree in the field of computer science, medical technology, bioinformatics, engineering
- good knowledge of the programming languages Java, JavaScript or Python, and web technologies
- Experience with HL7 FHIR desirable
- Independence, reliability, good knowledge of English

contact

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