Interoperability among Prenatal EHRs: A Formal Ontology Approach

Fernanda Farinelli, D.S.I.S.¹,²,³, Mauricio B. Almeida, PhD¹, Peter L. Elkin, MD², Barry Smith, PhD²,³

¹ School of Information Science, Federal University of Minas Gerais, Brazil
² Department of Biomedical Informatics and ³ Department of Philosophy, University at Buffalo, USA

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Contact

eralini.farinelli@gmail.com

Introduction

During life course, a person attends several medical encounters involving different specialties. Data of each encounter are documented on electronic health records (EHRs) in several EHR systems built using different standards and terminologies. This leads to heterogeneity of medical terminologies and lack of semantic interoperability.

Proposal

Promoting the development of a formal ontology approach to address the interoperability issue.

Methodology

Proposal

1st) Knowledge representation through formal ontology

2nd) Data extraction using SPARQL Language

Solution

Question 1: When patients had a medical encounter?

Result:

Question 2: What are the vital signs of the patient measured at the last medical encounter?

Result:

References

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Full version available at: http://bioportal.bioontology.org/ontologies/ONTONEO

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Contact

fernanda.farinelli@gmail.com