

HORIZON 2020

HEALTH PARTNERING DAY 2017

HEALTH, DEMOGRAPHIC CHANGE & WELLBEING



7 DECEMBER 2017, BRUSSELS

Health Related
Topics - ICT

In quest of data hidden in the health records

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(SME)



In quest of data hidden in the health records



- This project demonstrates our company expertise on information retrieval from electronic health records (EHR).
- It is one of our R&D projects on Health Informatics.
- We are utilizing computing technologies to process textual EHR:
 - Natural Language Processing – Health domain specific
 - Text/Data Mining – Feature Detection & Extraction
 - Deep Learning – Discourse, Disambiguation, Named Entity Recognition, Negation and Temporality Resolution
- We are utilizing data science and storage techniques to store retrieved information.

EHR Driven Phenotyping

Project vision and possible outcomes

- Creating patient's medical trajectory: Determining natural history of diseases, precursors and consequences
- Risk prediction, Biomarker and risk factor discovery
- Predicting the next complication
- Quantifying the effect of intervention and adverse effect detection

Reference: Mining Electronic Health Records (EHR): A Survey. P Yadav, M Steinbach, V Kumar, G Simon. Department of Computer Science and Engineering, 2015. 6, 2015

Topic



Possible topic/topics in the scope of H2020
EHR driven phenomics in Personalized Medicine
Interoperable EHR driven data models for multi-
site collaborative research

Keywords

EHR, Phenomics, Personalized Medicine,
Interoperability

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