Data Network Panel OHDSI Symposium

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My daily work: How can OHDSI help?

http://synapse-managers.com/projects/eu-adr-alliance/

European Medical Information Framework
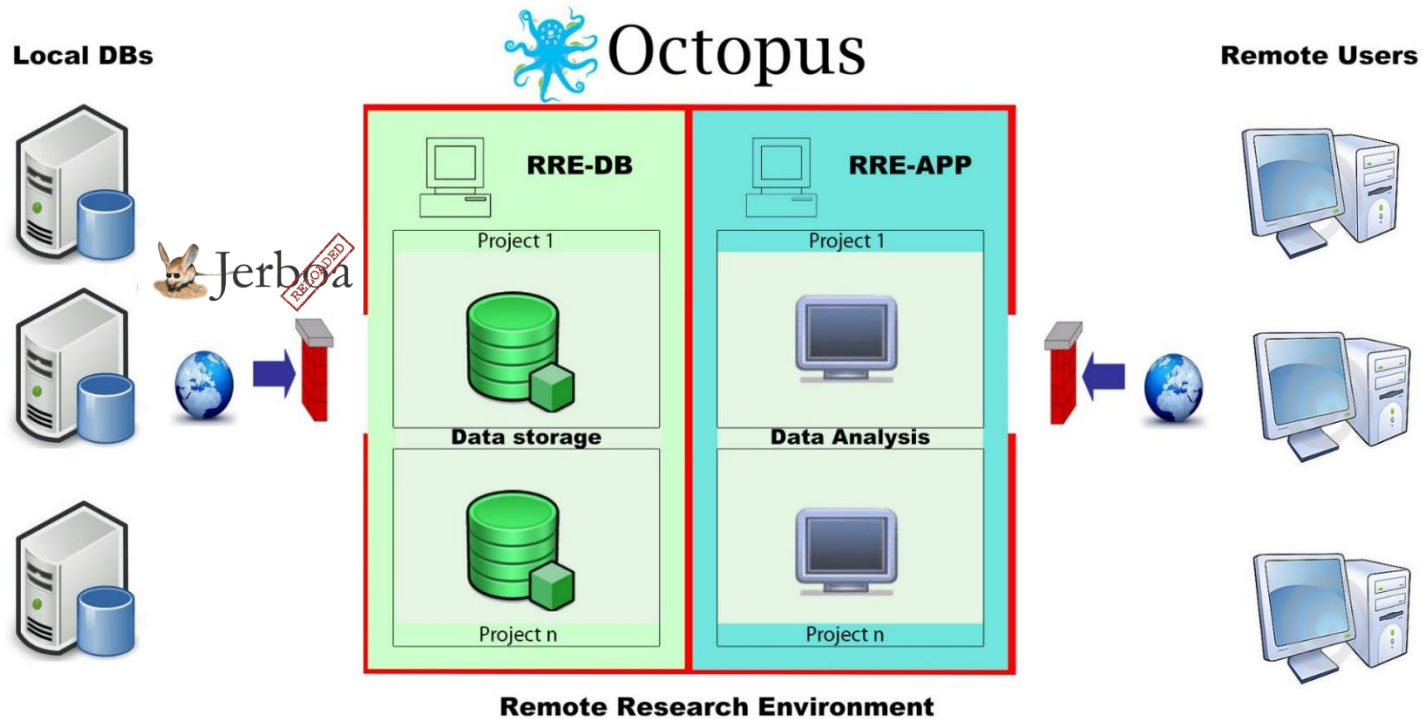
www.emif.eu

Many opportunities and challenges

Interdisciplinary Processing of Clinical Information

www.ipci.nl

Current infrastructure and tools

Study specific data extraction and transformation

**OMOP CDM?
OHDSI Tools?**

Central Analytical Datasets

Remote access for study teams

- Enables utilization of OHDSI Tools for feasibility assessment and studies
- Improves transparency in data extraction step
- Increases processing speed

Challenges

Convincing databases to participate

- What do I gain?
- What is lost in translation?
- What is the impact on my own workflow? For example, all the studies we have done are on ATC codes not RX-norm.
- How much work is needed for a dataset update?

Large number of different coding systems in Europe

- Can we further improve the supportive tools?
- How to deal with OMOP vocabulary updates and local coding changes?

Learning by doing: get hands-on experience using our own IPCI database
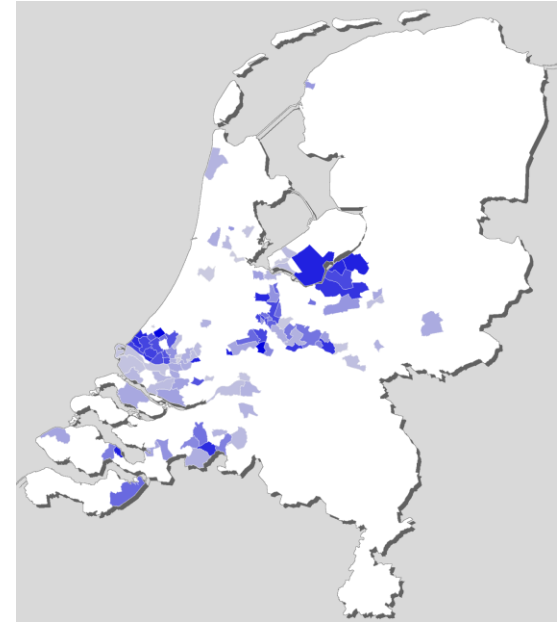
Mapping the Integrated Primary Care Information (IPCI) database

IPCI

- Project started in 1989
- Data from 601 GPs in 475 practices
- 1.900.000 patients

New coding schemes to tackle:

- ICPC codes for diagnosis and procedures
- WCIA-26 for measurements
- z-index for prescriptions

IPCI contains a lot of free text information. How to deal with this?

Currently replicating a study that evaluates the effectiveness of risk minimization measures for pioglitazone.

Recommendations for the OHDSI community

- Expansion to Europe strengthens the community considerably but also introduces interesting challenges.

- More replication studies are needed to study what is lost in translation but also to show what you gain in translation.

- Expansion of the methods library to more study types, e.g., simple drug utilization, or more advanced analytics.

- Installation of the OHDSI tools should be very easy to enable unexperienced users -> work is ongoing.

- Showing the nice tools on real problems creates interest. I would recommend the creation of a nice instruction video to go viral ☺

Happy to be part of the OHDSI community and looking forward to see more people and databases join the fun!