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Implementing FAIR in OHDSI: Challenges and opportunities for EHDEN

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Abstract

The FAIR data principles (Findable, Accessible, Interoperable, Reusable) are key to dissemination and re-use of data and results. Here we present ways in which the FAIR principles can be applied with an OHDSI network, taking EHDEN as an example. This work is in early stages, and this poster is intended to invoke discussion.

EHDEN

The EHDEN project aims to make healthcare data in Europe Findable, Accessible, Interoperable and Reusable (FAIR) at an unprecedented level. The EHDEN framework contains a number of important applications to support this objective. For example, the EMIF catalogue supports Findability by providing metadata (F2) and a data source index (F4), the Arachne platform improves Accessibility (A1), and of course the OMOP model and mappings cater to Interoperability (I1, I2). However, to benefit EHDEN and the OHDSI community long term, it would be beneficial to have a standardized way to publish a number of key data resources as digital objects using globally defined, software-independent data standards in the spirit of GO-FAIR, which can contribute to the Internet of FAIR Data and Services (IFDS).

Digital Resources in OHDSI

This poster will discuss a number of potential digital objects we could define and exchange in the context of EHDEN and OHDSI, such as model versions, vocabulary versions, database profiles, cohort definitions, query definitions, query results, analytics packages, study protocols, study results, as well as publications, authors, organizations, projects, studies, study-a-thons etc.

Goal of the poster

The goal is to choose the resources we think are most impactful to focus on, and work with standards and approaches from other communities like GO-FAIR, ELIXIR, W3C etc. to propose a way to maximize the interoperability but also stay close to the OHDSI tools and approach. This poster will provide a starting point for discussion about which type of resources (see list above) would be best to start with, as well as suggest some preliminary approaches / standards for implementation.