Leverage the strengths of the OMOP ecosystem to import validated libraries

Title: A method to facilitate rapid stand up of OMOP research tools from validated libraries for RWE research.

Background: OMOP CDM provides a rich environment for data analysis in a federated network. Many peer reviewed standard code libraries exist in varied vocabularies around the world. This work explores one method for converting existing code libraries into OMOP concepts and research environments programatically, dramatically reducing the work and domain knowledge requirements on researchers.

NIHR Value set authority center is a resource gateway to codesets maintained by expert stewards for a huge range of phenotypes, states and conditions

Stewarded value sets provide robust gold standards for concept sets, but can be many thousand entries long.

Methods

1. Leverage OHDSI tools to query the Vocabulary and map the concepts.

2. Convert to concept sets and push into ATLAS ready for use by research.

(The approach holds for cohorts facilitating between instances)

Limitation: This work has been developed from the excellent basis of the HADES developers, without which it would not have been possible. For most effective use, this approach/codebase should be implemented alongside initial setup of ATLAS to populate “standard” libraries.