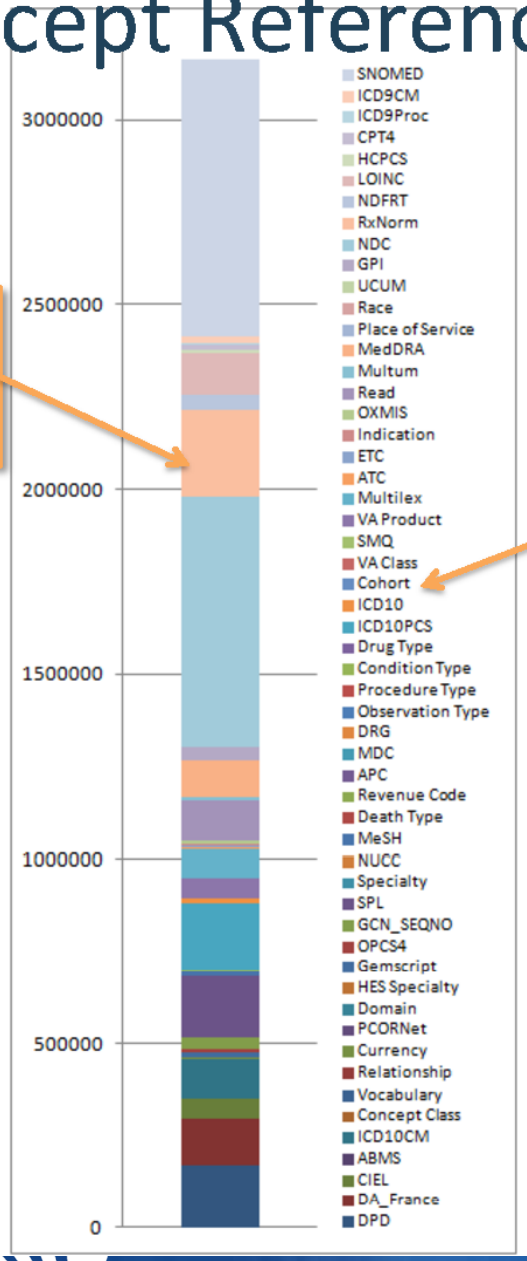
Fully connecting the Observational Health Data Science and Informatics (OHDSI) initiative with the world of linked open data

Georgia State University

Single Concept Reference Table



All vocabularies stacked up in one table

Vocabulary ID

CONCEPT_ID	313217
CONCEPT_NAME	Atrial fibrillation
DOMAIN_ID	Condition
VOCABULARY_ID	SNOMED
CONCEPT_CLASS_ID	Clinical Finding
STANDARD_CONCEPT	S
CONCEPT_CODE	49436004
VALID_START_DATE	01-Jan-1970
VALID_END_DATE	31-Dec-2099
INVALID_REASON	

For use in CDM

English description

Domain

Vocabulary

Class in SNOMED

Concept in data

Code in SNOMED

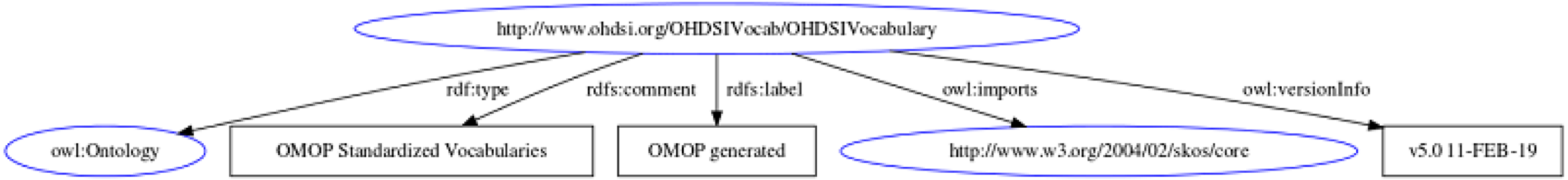
Valid during time interval

Why do we need this?

- Link out of the confines of the OHDSI vocabulary:
  - From RxNorm link to Drug Bank/PharmGKB/Sider directly for drug studies – via bio2RDF
  - Linking out of SNOMED-CT/MeSH/ICD for phenotyping feature enrichment
    (when using the vocabulary to annotate clinical narratives)
  - **Linking out of the APHRODITE phenotype model feature space into HPO or others**

What have we done?

- We have converted this CSV into RDF and link all included vocabularies to standard URI's (when they exist)



Introducing OHDSI2RDF

- Available at:
  - https://github.com/thepanacealab/OHDSI2RDF

- As:
  - Full RDF graph download
  - Python conversion script

Next steps:

- Add ancestor and Synonym relationships
- ~~Improve CUI assigning from Ananke source~~
- Add NON-UMLS linkages

Acknowledgements

Biomedical Linked Annotation Hackathon 5
12 - 15 February 2019, Kashiwa, Japan