OHDSI Medical Imaging Working Group

From pixels to Phenotypes
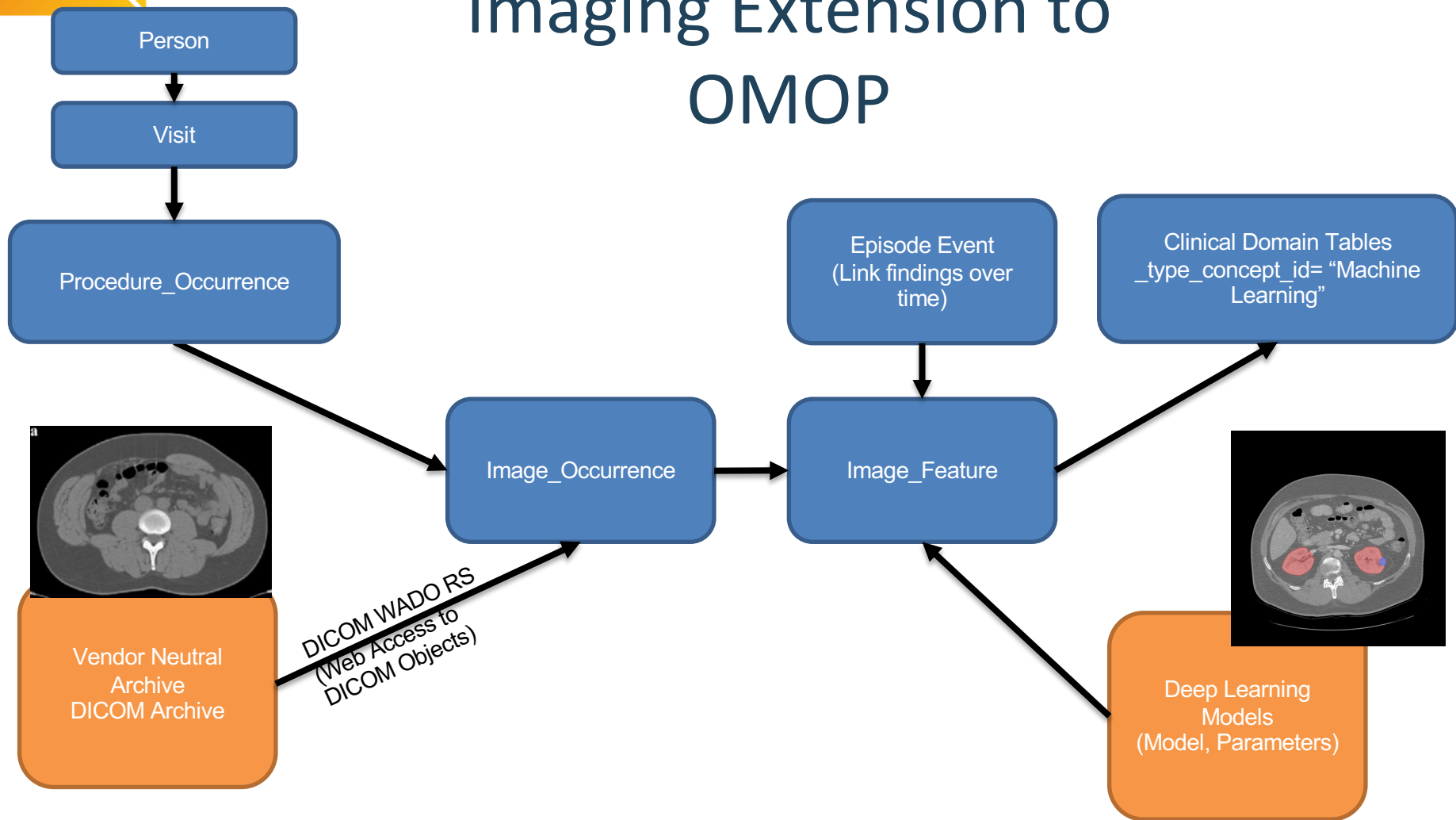
WG co-leads Seng Chan You and Paul Nagy

Wednesdays every 2 weeks at 7 AM / 7 PM

Imaging WG Goals

1. Extension to perform cohort definitions in OHDSI for medical imaging research studies.

2. Extension to bring features derived from medical images into the OMOP data model while maintaining provenance.

3. Create refence implementations of infrastructure for reproducible research on medical images.

Imaging Extension to OMOP

OKR #1

- Objective: Have CDM group approve the model into the base OMOP model Q3

- <u>Key Results:</u>

  - Publish a draft data model for the imaging extension Q1
  - Have Radlex and DICOM vocabularies added to the OMOP vocabulary Q2

OKR #2

- Objective: Conduct a network study based on the imaging extension Q4

- <u>Key Results</u>:

  - Have at least two reference implementations of this extension Q3

    1. Demonstration of cohort discovery
    2. Demonstration of imaging feature provenance
    3. Demonstration of combining EHR features in DCNN model building
    4. Demonstration of a network study

  - Write a roadmap how to implement imaging CDM and conduct network study