

OHDSI Workgroup Objectives and Key Results (OKR)

NLP Workgroup
Hua Xu



NLP Workgroup Purpose

NLP WG exists to promote the use of textual information in electronic health records (EHRs), to facilitate the generation of evidence for observational studies.

- Develop standard representations for clinical text and NLP output data
- Build methods and tools to facilitate textual data processing
- Conduct cross-institutional studies and disseminate best practice of using textual data for real world evidence generation



NLP 2025 Objectives and Key Results

Objective 1: Conduct multi-site clinical studies that utilize both structured and textual data

Key results

- 1. Characterizing the Anticancer Treatment Trajectory and Pattern in Patients Receiving Chemotherapy (Oncology) annotation guideline development
- 2. Predictors of diagnostic transition from major depressive disorder to bipolar disorder: a retrospective observational network study (Psychiatry) revising the protocol
- 3. Social Determinants of Health and Treatment Outcomes in Type 2 Diabetes: A Multi-Site Analysis of LEGEND-T2DM study finalizing SDoH factors and subset of Treatment-Comparator-Outcome pairs

Objective 2: Open source LLMs for information extraction from clinical notes

Key results

- 1. Development of Kiwi An LLM-based Clinical Information Extraction System
- 2. Expanding Kiwi for open-source community development

Objective 3: Knowledge dissemination

Key results

- 1. Monthly presentations on NLP advances (~ 30 attendees on average in 2024)
- 2. Book of OHDSI NLP Chapter Textbook -> Cookbook