Oncology Working Group- 2023 OKR
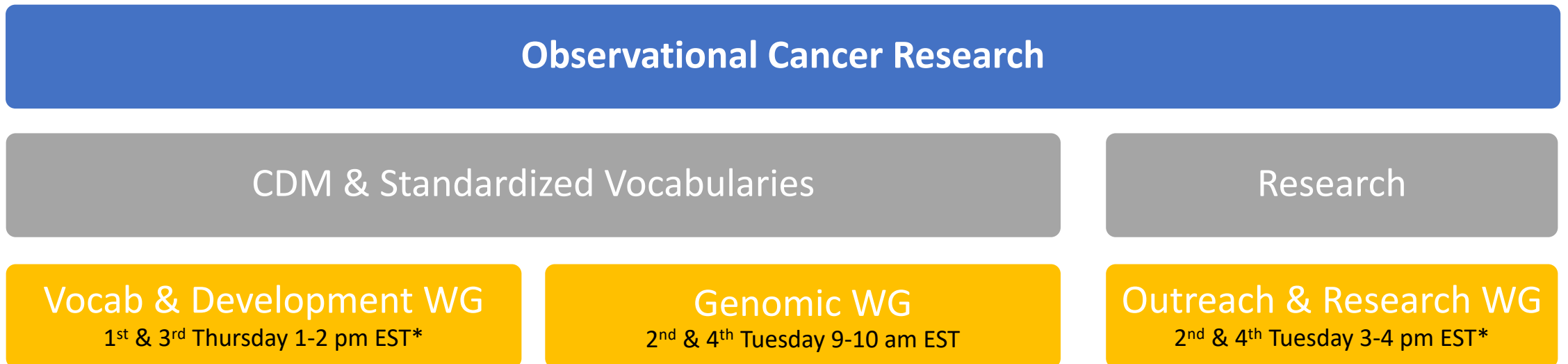
Feb 21, 2023

Purpose

- The OMOP Oncology module aims to provide a foundation for representing cancer data at the levels of granularity and abstraction required to support observational cancer research

Oncology WG Structure

Observational Cancer Research	
CDM & Standardized Vocabularies	Research
Vocab & Development WG 1st & 3rd Thursday 1-2 pm EST* / **Genomic WG** 2nd & 4th Tuesday 9-10 am EST	**Outreach & Research WG** 2nd & 4th Tuesday 3-4 pm EST*

*New meeting schedule will be announced soon.

What have we done in 2022?

- **Vocabulary & Development**
  - Cancer modifiers: finalized representation and mapping of metastasis, stage, grade and dimension

- **Genomic**
  - OMOP Genomic Vocabularies: update and addition of new source vocabularies
  - KOIOS – ETL tool to support mapping genomic data

- **Research & Outreach**
  - 360 review and reprioritization of effort to support oncology phenotype development and ongoing studies
  - Initiated new oncology network studies and research collaborations

What is our plan in 2023?

- Focused to make it effective

- Release a stable version of the Oncology module ready for implementation

- Create an opportunity for broader engagement and collaboration

  1. Stabilize the vocabularies

  2. Fix genomics

  3. Run studies

  4. Onboarding onRamps

Oncology WG- 2023 Version

- Real-time documentation of the ETL conventions and best practices: Conventions

- Creation of a discussion page to ensure broader engagement of the WG members

- Adopting a use-case driven approach and prioritizing the ongoing effort based on the ongoing and/or future oncology studies. All tracked here: Oncology Release 2.0 project page

Vocab & Development WG OKR-Q1 2023

1. **Improve and finalize ETL from registry data to OMOP**
   - Finish vocabulary mapping for prioritized NAACCR modifier
   - Improve and publish ETL package for mapping tumor registry to regular OMOP Tables
     - Publish a stable release
     - Update NAACCR ETL to use the new conventions
     - Publish and regularly update the documentation on the ETL convention

Oncology Genomic WG OKR-Q1 2023

2. **Continue validation of the vocabulary and model**
    – Assess and publish the completeness of the new vocab release in covering <u>somatic variations</u> in 1) commercial panels and 2) FDA list of approved targets and CAP data items*
    – Publish a list of somatic variants from the FDA and CAP list expected to be in the vocabulary

3. **Improve KOIOS functionality**
    – Collect feedback on KOIOS performance from 4+ sites with available genomic data and propose a plan and timeline for improvement

4. **Publish the documentation of the OMOP Genomic vocabulary**
    – Draft/V1.0 of the genomic vocab documentation

*contingent on the vocab priority and resources

Oncology Research & Outreach WG OKR-Q1 2023

5. **Dissemination and adoption of the Oncology Module**

   – Finalize the outline for Onc Module OnRamps

6. **Support data partners and investigators in the application of the Oncology Module for oncology research**

   – Finalize SWT analytic package

   – Onboard data partners for NSCLC-liver mets study

   – Develop outlines for best practices for oncology phenotype development

Call for Community Engagement in Development & Research

- Data: US tumor registry, non-US tumor registry, EHR, Claims
- Research questions: High impact use cases
- Domain modelers and vocab developers: radiology, surgery, precision medicine
- ETL developers
- Methodologists: Support of best practices

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https://github.com/OHDSI/OncologyWG/wiki
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