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**

**Vocab & Development WG**
1st & 3rd Thursday 1-2 pm EST*

**Genomic WG**
2nd & 4th Tuesday 9-10 am EST

**Research**

**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

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**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](#)
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
2. **Continue validation of the vocabulary and model**
   - Assess and publish the completeness of the new vocab release in covering **somatic variations** 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
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

1. **Vocab & Development WG:** 1\textsuperscript{st} & 4\textsuperscript{th} Thursday 1-2 pm EST*
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https://github.com/OHDSI/OncologyWG/wiki

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