



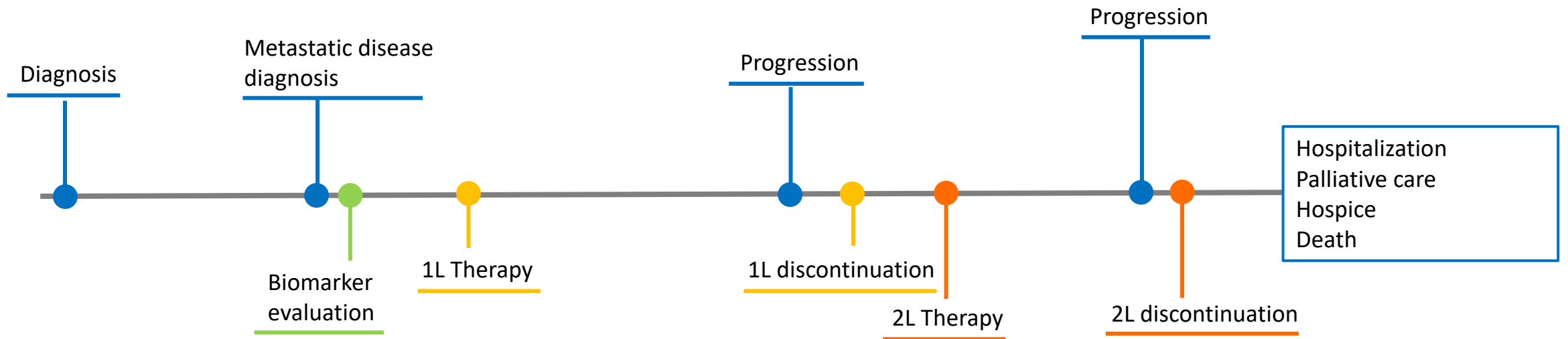
Oncology Working Group Update 2022





Mission

- 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

2nd & 4th Thursday 1-2 pm EST

Genomic WG

2nd & 4th Tuesday 9-10 am EST

Outreach & Research WG

2nd & 4th Tuesday 3-4 pm EST



What have we done in 2021?

- **Vocabularies**
 - Base diagnosis: integrated ICD-O3 into the SNOMED hierarchy
 - Cancer modifiers: finalized representation of metastasis, stage, grade and dimension
 - Treatment: HemOnc vocab adapted as the Standard Vocabulary for regimens
 - Lower-level representation of Disease Episodes (dimension and extent)
 - Developed and released OMOP Genomic Vocabularies
- **Model**
 - Introduced in 2020
- **Development**
 - Improvement of the NACCR ETL
 - Drug Regimen Algorithm V2.0
 - Analytical package and expansion with additional use cases
 - Conventions for derivation of initial disease episode from HER
- **Adaptation**
 - +20 data partners at different stage of ETL and conversion to Onc Extension
- **Research**
 - Initiated and led several oncology studies and research collaboration



What is our Future Plan?

- Focused to make it effective
 - Implement the extension as part of the Vanilla OMOP
1. CDM to adopt the table
 2. Stabilize the vocabularies
 3. Fix genomics
 4. Run studies
 5. Onboarding onRamps



Vocab & Development WG OKR

1. Improve and finalize ETL from NAACCR to OMOP

- Finish vocabulary mapping for all NACCRR modifier
- Improve and publish ETL package for mapping tumor registry to regular OMOP Tables
- Develop post-ETL package to populate Episode Tables

Collaboration with the Health Systems Interest Group

2. Develop a roadmap for merging EHR and registry data

3. Develop the oncology extension reference implementation for EHR



Oncology Genomic WG OKR

4. Enhance and validate the OMOP Genomic Vocabulary

- Continue validation of the vocabulary and model
- Improve the totality of the OMOP Genomic vocabulary
- ETL package for mapping institutional genomic data to OMOP
- Publish the documentation of the OMOP Genomic vocabulary
- Draft best practices in standardization of genomic and other omics data supporting observational research



Oncology Research & Outreach WG OKR

5. Dissemination and adaptation of the Oncology Module

- Documentation of the work
- Develop training modules/workshops to support data partners on ETL and mapping

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

- Optimize, validate and release the new oncology regimen extraction package
- Finalize the ongoing oncology studies and analytic tools
- +5 data partners with research ready data involved in at least one network studies
- Develop at least 12 reusable Oncology phenotypes



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>