

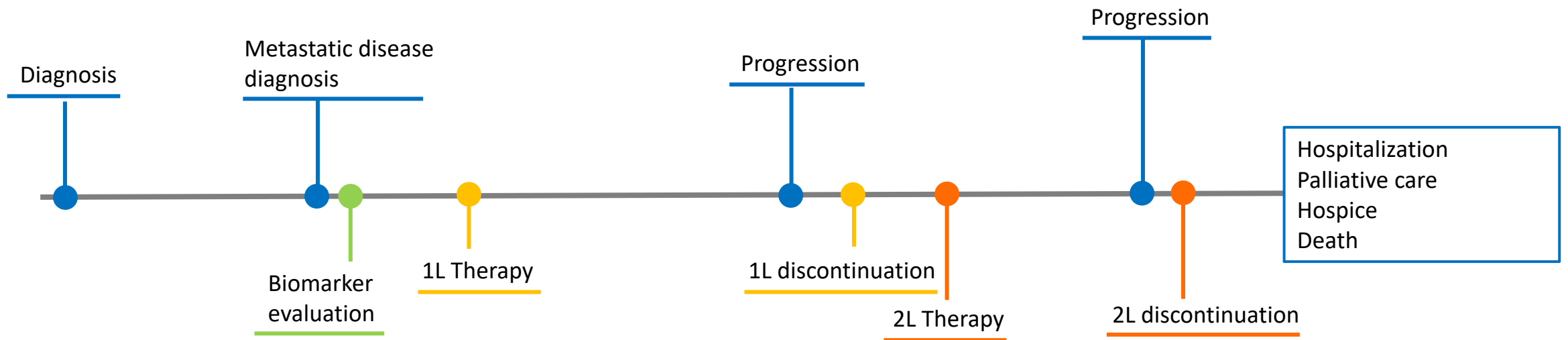


# Oncology Working Group Update 2022



# 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

2<sup>nd</sup> & 4<sup>th</sup> Thursday 1-2 pm EST

Genomic WG

2<sup>nd</sup> & 4<sup>th</sup> Tuesday 9-10 am EST

Outreach & Research WG

2<sup>nd</sup> & 4<sup>th</sup> 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>