

# ADVANCING VALUE-BASED CANCER CARE

## BC Platforms' Systematic Approach to OMOP

## Oncology Federated Query and Analytical Solutions

## in ONCOVALUE consortium

**BACKGROUND:** The ONCOVALUE consortium, a collaborative effort of cancer institutes and industrial partners, is dedicated to implementing value-based oncology care. Central to its mission are the localized harmonization of high-quality Real-World Data (RWD) to facilitate the development of federated analytical frameworks for the assessment the effectiveness of novel cancer therapies across multiple institutions as well as other HTA analysis.

### BC Platforms' solution BCRQUEST.com:

1. Complex query functionality to allow cohort-building capabilities
2. Federated analytics, i.e. survival and cost-effectiveness analysis
3. Visualization of analytical results and dashboard creation

Figure 1: BCP's federated query solution: BC|LINK installations at partner sites and a common access portal BC|RQUEST

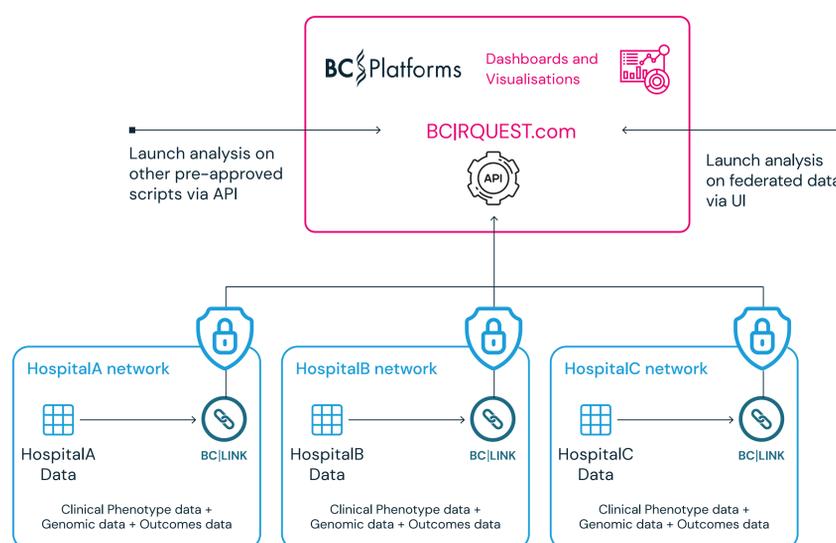


Figure 2: OMOP CDM table linkages for storing oncology data.

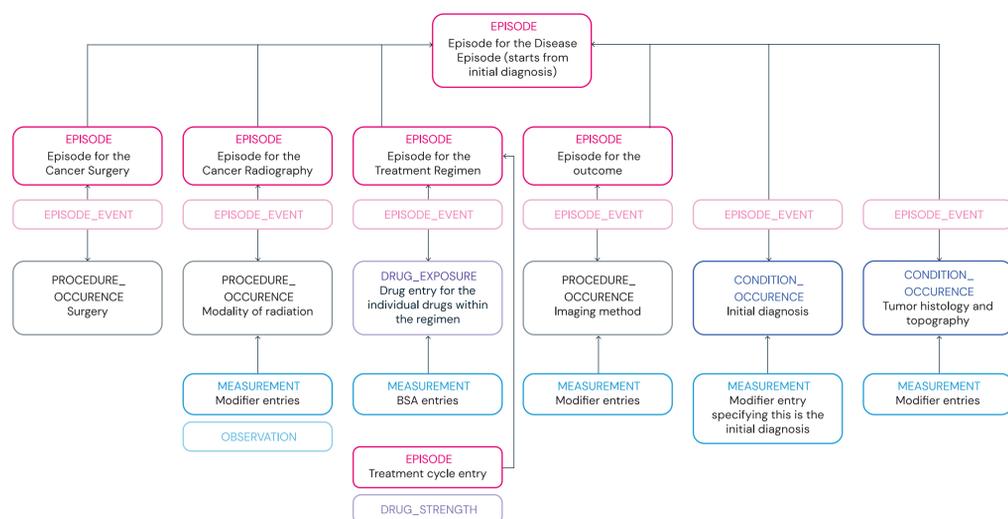
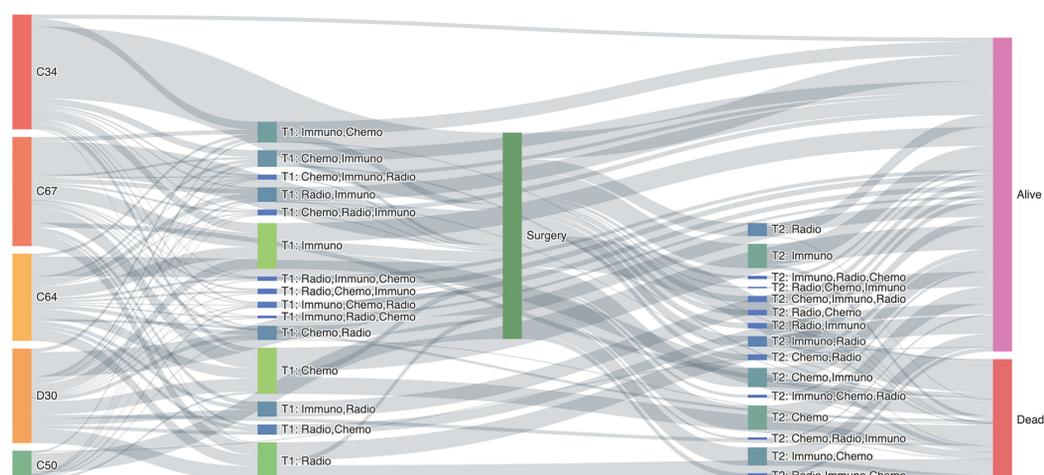


Figure 3: BC|RQUEST offers clinicians a visual data analysis platform to evaluate past treatment combinations by category, aiding decision-making and potentially enhancing patient survival.



**PROCESS:** Partner sites will harmonize oncology data using OMOP CDM and standard procedures. Consistent data formatting and harmonization ensure comparability across collaboration partners, which is vital for downstream analytics.

### OUTCOME

OMOP CDM unifies clinical data from diverse sources for federated queries and analyses. BCP enables data-driven insights into novel cancer therapies, evaluation of their real-life effectiveness and support of evidence-based decision-making in oncology. This lays the foundation for large-scale trials and fosters collaboration towards improving cancer care outcomes globally.



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