

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: BCILINK installations at partner sites and a common access portal BCRQUEST

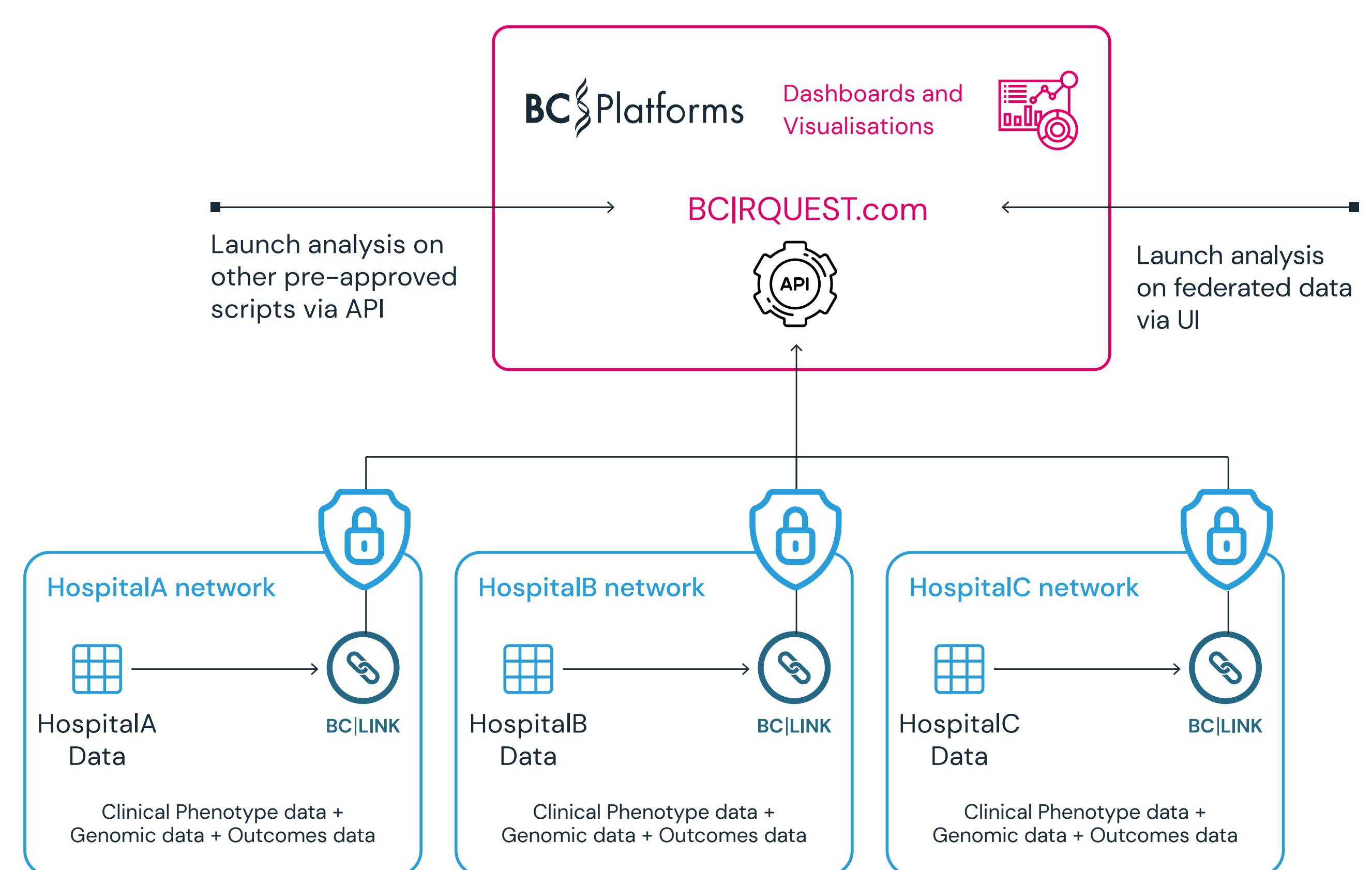


Figure 2: OMOP CDM table linkages for storing oncology data.

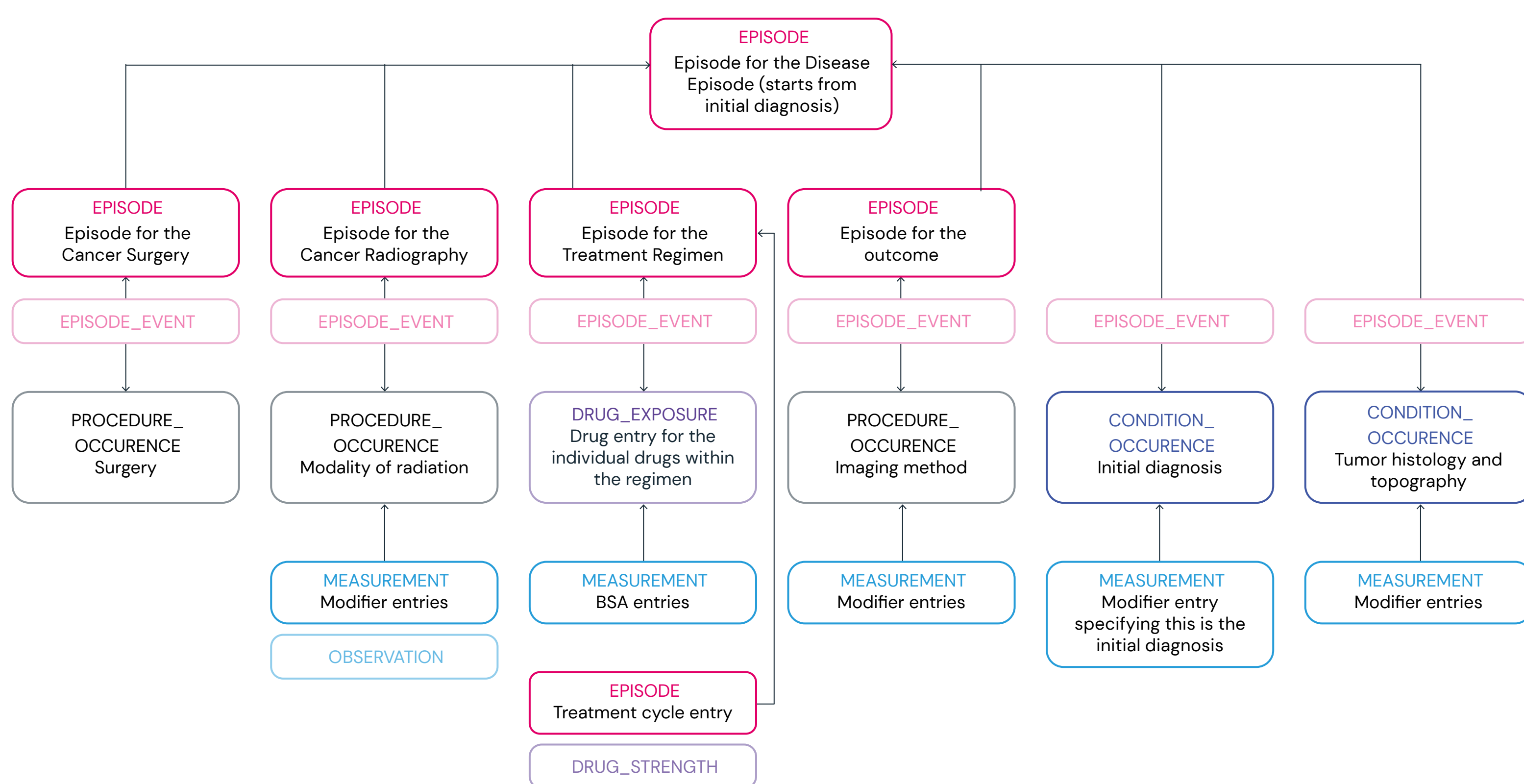
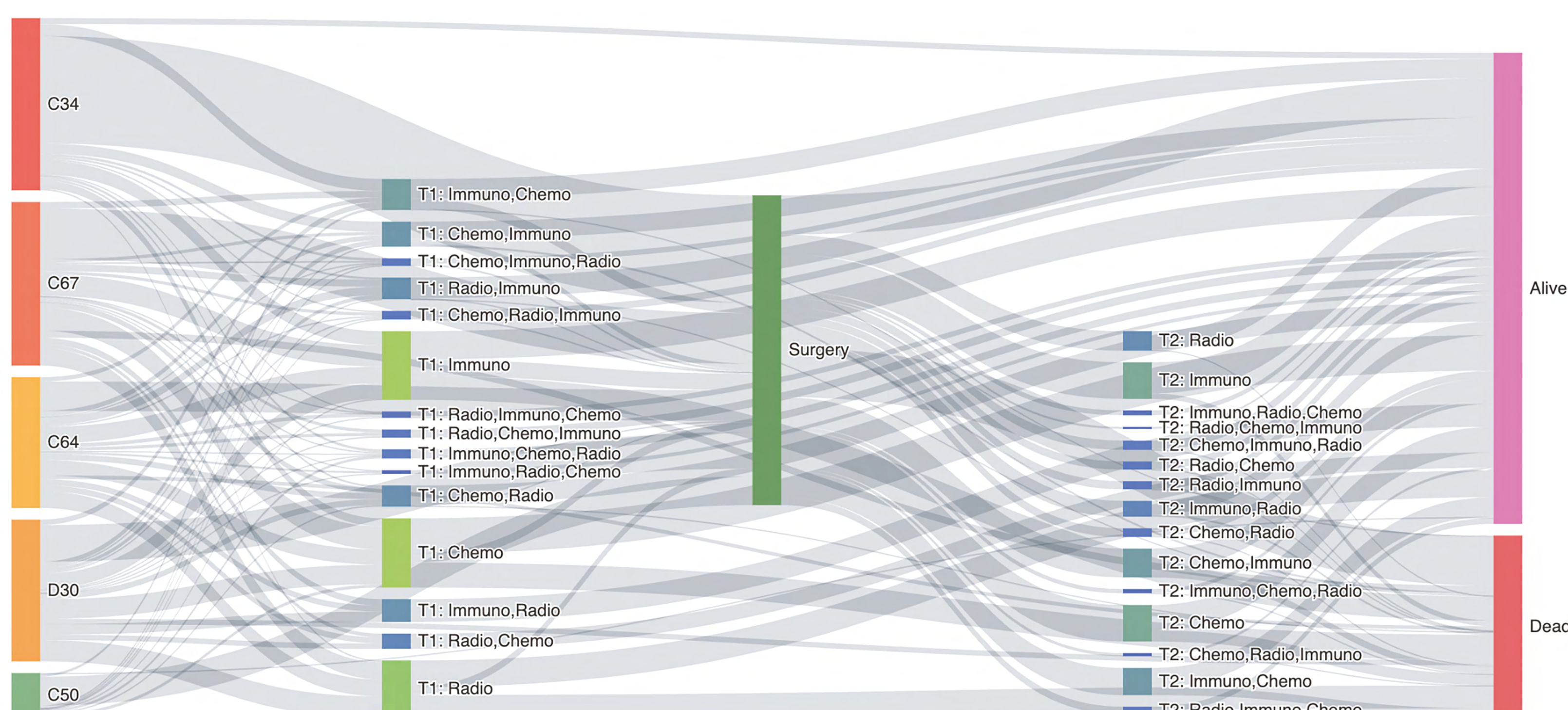


Figure 3: BCRQUEST offers clinicians a visual data analysis platform to evaluate past treatment combinations by category, aiding decision-making and potentially enhancing patient survival.



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.