The Cancer Clinical Research (CCR) database is a patient-centric clinical annotation system for clinical and population sciences investigators to capture clinically relevant phenotypic and genotypic data and integrate with other data sources. Integrations include the University of Utah Health Enterprise Data Warehouse (EDW), the HCI Tumor Registry, somatic testing results, and specimen tracking data. CCR serves as a common repository for cancer-specific clinical and research data to support clinical and translational research. Much of the information in the repository assists in viewing the patient longitudinally, progressing from pre-disease history and screenings to diagnosis, treatment, and follow-up.

The repository is not a repetition of the existing medical record, but instead:
- Provides additional complementary cancer specific information
- Provides a cancer clinician-researcher viewpoint for data organization and presentation
- Allows for collection of research parameters for approved research studies
- Supports computation of custom derived variables
- Allows for side-by-side comparison and mining of clinical and research data

Researchers can create and run reports through iQ (an ad-hoc query generation tool) in a variety of formats.
REPORTING

Researchers can report on all collected and linked data through iQ, including custom medical events and attributes.

SECURITY

CCR keeps research data secure and HIPAA compliant. As a patient- and disease-centric application, CCR gives cancer groups full control over their data.

CCR Features

- **Cancer Group-specific Data Access** – Principal investigators define cancer groups containing their cohorts of interest. They control access to all data and can decide to share data with other cancer groups.
- **Shared Patient Data** – Supports shared access to electronic health record data for the cancer groups via nightly import of data from the EDW.
- **Searching** – Allows searching by patient, diagnosis, staging, tumor, medical event, study, and pathology report attributes. The iQ application provides extraction of integrated datasets including data from CCR, biospecimen tracking, molecular data, and HCI tumor registry data.
- **Basic Data Collection** – Supported data elements include diagnosis, staging, tumor, study enrollments, vital status, tests/results, and specimens (through integration with itBioPath).
- **Medical Event Model** – Provides extensible user-defined data per cancer group, including patient, research studies, tumors, pathology, and medical events such as biopsies, surgeries, follow-ups, treatments, outcomes, complications, and more.
- **Data Extracted by Natural Language Processing (NLP)** – Integrates with customized data extraction from notes and reports (pathology, radiology, etc.) using the Linguamatics I2E NLP application and home-grown software for integrating it with CCR.

Services Available

- Training
- Technical Support
- Application Configuration
- Application Development
- Query and Report Generation
- Natural Language Processing

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