

## CONFIGURATION

Supports configuring cancer-oriented data on-the-fly through the HCI Configure-on-Demand (COD) interface.

## INTEGRATION

CCR is integrated with multiple data sources to reduce manual chart abstraction, including the medical record, tumor registry, specimen data, and molecular testing results.

## COLLABORATION

All cancer groups share a common patient and can share securely medical event data with each other.



CCR Cancer Clinical Research Database

OVERVIEW ADMINISTRATION LABS MEDICAL EVENTS TCC CONSENT DETAILS PROGRESS RECORD

TEST: ONE MRN: ACIS-001  
DOB: 01/01/1965 | Age: 60 | Sex: M | HCI Person ID: 1124262 | Core Subject ID: POF8237 | [Health Records](#) | [Tumor Registry](#) | Marked for Review

### PATIENT DETAILS

First Visit Date: / /  
Last Assessed Vital Status: / /  
Last Assessment Date: / /  
Summarized Vital Status: **Dead** / /  
Summarized Last Live/Death: 02/02/2025 / /  
Cancer Group Related Death: / /

Diagnosis Date: / /  
Initial Stage / Stage TNM: / /  
Survival Days: / /  
Days to Regional Progression: / /  
Days to Distant Progression: / /

### SHARED DEATH INFO

Is Deceased? **Yes**  
Death Date: 02/02/2025 [Link...](#)  
Death Source: **Obituary**  
Tumor Related Death: **Yes**  
Data Obtained From Autopsy: **No**

### DIAGNOSES

☒ Show Diagnosis and Stages For All Cancer Groups

GROUP	DATE	GROUP MORPH	ICD-O 9	ICD-O TOPO	ICD-O MO...	ICD-10	BASIS	IS PRI...	SOURCE	AGE
HCI Acute Care	06/01/2017							<input type="checkbox"/>		52
HCI Acute Care								<input type="checkbox"/>		
Adolescent and Young ...	01/01/2001							<input type="checkbox"/>		
Adolescent and Young Ad...								<input type="checkbox"/>		
Adolescent and Young Ad...								<input type="checkbox"/>		
Adolescent and Young Ad...								<input type="checkbox"/>		

### STAGE/STATUS

ENTER STAGE FOR SELECTED DIAGNOSIS

DATE	STAGE	T	N	M	GR...	SYSTEM	TYPE	PRI...	PROGNOSIS GRP	DIAG DATE	SOURCE	AUTO
04/15/2014		T4	N1	M0	Grade 1	AJCC V6	Clinical Staging	<input type="checkbox"/>		04/22/2007		<input type="checkbox"/>
10/03/2007	I	T1	N0	M0		AJCC V6	Clinical Staging	<input type="checkbox"/>		04/22/2007		<input type="checkbox"/>
08/16/2007	IA	T1	N0	M0	Low	AJCC V6		<input type="checkbox"/>		07/26/2007		<input type="checkbox"/>
07/26/2007	III	T1	N1	M0		AJCC V6		<input type="checkbox"/>		07/26/2007		<input type="checkbox"/>
04/10/2018	IA1	T1a (m)	NX	M0		AJCC V8		<input type="checkbox"/>		03/14/2006		<input type="checkbox"/>
03/21/2006	IIA	T1	N2	M0	G2	AJCC V6	Pathologic Staging	<input type="checkbox"/>		03/14/2006	Internal	<input type="checkbox"/>

### TUMOR

IDENTIFY DATE	TUMOR TYPE	BODY SITE	BODY SITE POSITION	BODY SITE LATERALITY
08/18/2021	Regional Metastasis			
06/17/2020	Primary			

### PATIENT PROVIDERS

PROVIDER	ROLE	FIRST SEEN
Aspro, Matt	Consulting	03/15/2017
Abrass, Gary	Referring	10/10/2016
Gupta, Sunati	Consulting	03/12/2020
Adrain, Lois	Referring	03/15/2017

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

HISTORY OF PRESENT ILLNESS: Mr Spacely is a 67 year old male with prostate cancer diagnosed on 07/12/2025. **We saw him last in April 17 of 2025 when his PSA was 3.2** and brought a few more PSA's with him. On 03/16/2025, his PSA was 10.42, and

LAB TESTS						
	TEST DATE ↓	TYPE	VALUE 1	VALUE 2	UNITS	LOW
1	01/30/2025, 00:00:00	PSA (SERUM)	0		ng/mL	0
2	02/06/2025, 11:10:00	ALKALINE PHOSPHATASE	45		U/L	38
3	03/27/2025, 00:02:00	WBC	6.77		K/uL	3.2
4	04/08/2025, 07:23:00	GLUCOSE, PLASMA OR SERUM	89		mg/dL	64
5	05/27/2025, 02:00:00	CALCIUM, SERUM OR PLASMA	8.7		mg/dL	8.4
6	10/14/2025, 05:23:00	CREATININE	0.90		mg/dL	0.72
7	03/16/2025, 19:44:00	CALCIUM	8.7		mg/dL	8.4
8	04/24/2025, 09:55:00	HEMOGLOBIN	15.6		g/dL	14.6
9	05/25/2025, 23:33:00	CREATININE, SERUM OR PLASMA	0.90		mg/dL	0.72
10	06/08/2025, 07:22:00	PLATELET	166		K/uL	177
11	07/12/2025, 06:11:00	PROSTATE SPECIFIC ANTIGEN	3.2		ng/mL	0
12	08/09/2025, 09:22:00	PSA (SERUM)	3.0		ng/mL	0

EDIT TEST RESULT

TEST DATE: 07/12/2025, 23:56 TEST TYPE: 83 FACILITY:

RESULT 1: 3.2 RESULT 2: UNITS: ng/mL

NORMAL LOW VALUE: 0 NORMAL HIGH VALUE: 4

NOTE: DEXT ... with prostate cancer diagnosed on 07/12/2025 after PSA increased to 3.2.

CANCEL SAVE

Extracting discrete data values via NLP

**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, bio-specimen 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 CORE).

**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 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

