UNIVERSITY OF UTAH
**HUNTSMAN**
CANCER INSTITUTE

*Data Hub for All Aspects of Laboratory, Translational, Clinical, and Population Research*

# CORE
*Comprehensive Oncology Research Environment*



## CONFIGURATION

CORE supports configuring study and organization data on-the-fly through the HCI Configure-on-Demand (COD) interface.
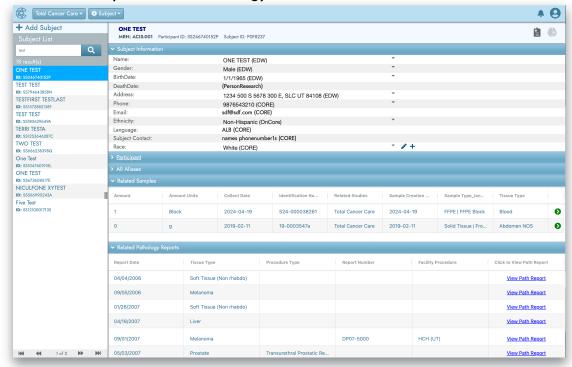
## INTEGRATION

As HCI implements new research applications, they will be interfaced with CORE for reporting and integration of critical research information. This will reduce data entry errors and increase data reliability.

## COLLABORATION

Researchers can share data securely across studies that have overlapping participants. This is especially useful for Cancer Center-wide protocols like Total Cancer Care (TCC), in which other studies can see whether their participants also have consented to TCC. Studies can choose to share any data collected on their participants.

**RISR** Research Informatics Shared Resource

## risr.hci.utah.edu

The Comprehensive Oncology Research Environment (CORE) application, developed by the Huntsman Cancer Institute (HCI) Research Informatics Shared Resource (RISR), is the culmination of years of experience working with oncology data. It is a central hub for tracking everything critical to research in a single controlled data environment, including studies, participants, samples, and consents. CORE also supports making data available securely from various sources including the University of Utah Health Enterprise Data Warehouse (EDW), the HCI Tumor Registry, and the LabVantage sample tracking tool.

New applications that HCI develops or purchases will continue to be integrated into CORE in order to share critical information in a streamlined fashion, reduce data entry, and improve data quality.

CORE provides access to study data from many perspectives including clinical, research, population, and sample. Data added from one perspective is available immediately to the others, so researchers can quickly explore data from many angles.

CORE security is study-centric. Changing the study context in CORE refreshes the screen to reflect data from the new study. Studies control who can see data, and they decide whether to share data with other studies.

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

## REPORTING

Report on any collected data through iQ. CORE organizes research data into the most reportable structure, based on approved models and expertise.

## SECURITY

Keep research data secure and HIPAA compliant. As a study-centric application, CORE gives studies full control over the data they collect.

**CORE** is composed of modules that provide different data types and perspectives. It imports data from multiple sources, including the EDW and the HCI Tumor Registry. The modules that currently exist are as follows:

**Study** – Manages critical data on studies, as well as each study's collaboration, security, access to data sources, and access to other perspectives and modules.

**Subject** – Manages participant records. Participants are entered into CORE once. Each participant may have multiple demographics obtained from different data sources, and studies can designate a primary demographic for their participants. Participant records also include enrollment, withdrawal, status, and other general relationships to studies.

**Consent** – Supports uploading consents directly into CORE or importing them from various data sources. CORE groups consents by participant. Researchers can track multiple consent versions and types.

**Sample** – Sample data, interfaced into CORE from LabVantage, are available for query through iQ. In addition, Research Informatics is developing screens for users to access this data alongside participant data.

## Interfaces

Research Informatics has interfaced CORE with the following applications and databases: LabVantage, OnCore, the HCI Tumor Registry, and the EDW. In the future, CORE will have temporary interfaces with CCR and the Research Subject Registry application until those applications and their functionality are replaced completely with CORE.

## Requirements
- Google Chrome (latest)
- Microsoft Edge (latest)
- Safari (latest)

## Services Available
Training
Technical Support
Application Configuration
Application Development
Query and Report Generation