BRISC
Biomedical Research Informatics Service Core

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Purpose of BRISC?

BRISC provides ‘point-of-service’ response by combining administration, technical staff and collaborations with key information technology resources.
FURTHeR
Medicine takes a step further.

Federated Utah Research & Translational Health e-Repository (FURTHeR)
CHPC HIPAA Compliant VM Farm

ESX-1
32 processors
128 Gb ram

ESX-2

Disk Array
20 2-terabyte disk drives
10 RAID-1 mirrors
1 Hot Spare mirror

redcap01.brisc.utah.edu
redcap-dev01.brisc.utah.edu
redcap-mysql01.brisc.utah.edu
redcap-dev-mysql01.brisc.utah.edu
redcap-mysql-slave01.brisc.utah.edu
redcap-dev-mysql-slave01.brisc.utah.edu
caTissue End User via Web Browser

Identity Provider Service

FURTHeR will access the public de-identified data schema directly

MySQL Schemas:
- PROD
- TEST
- DEV
- STAGING

Backup of PHI data schemas written to disc and backed up to tape

MySQL Schemas:
- DEV
- (multiple)
- PUBLIC

STAGING to PUBLIC Migrator (Vendor Supplied)

HIPPA VM FARM

DE-IDENTIFIED DATA

REGULAR VM FARM

The University of Utah Health Sciences Center
• Support clinical and translational research
• On-the-fly real-time federation of health information from heterogeneous data sources
• Data source partners do not need to extract data and build a new database (another copy)
  – Remains in its native format
  – Is as up-to-date as the data source
• Join data from multiple sources for research
FURTHeR

Cohort statistics

Record-level Pt. Data

Genealogies

UPDBL

EDW(s)

Inpatient Hospital Discharges
Utah Cancer Registry
Birth Certificates
Idaho Cancer Registry
Idaho Cancer Registry
Death Certificates
Ambulatory Surgery
Utah Voter Registration
Utah Drivers License

EDW(s)

DEMOGRAPHIC

LAB TESTS

MED ORDERS

PROCEDURES

DIAGNOSES
FURTHEr Users
Through July 2012

Total Faculty/Staff: 77
Total Students: 105
Total Registered Users: 182
Total Active Users: 131
Total Number of Queries: 970

*Eight users were removed from the usage and query counts for July, as they are part of the development and training team.
• Web accessible, user driven, HIPAA compliant data management system
• Structured forms
• Entity-Attribute-Value (EAV) data table
Opportunity

• FURTHeR is coming into expanded use
• REDCap is becoming a very popular data collection tool
• caTissue is being installed by the University and Intermountain Healthcare
• CHPC is becoming the ‘Big Data’ hub for computational and biomedical research
Physical Location
1. Research Park - 615 Arapeen, Suite #208
2. School of Medicine - 4B475

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URLs
http://healthsciences.utah.edu/avpit/projects/brisc.htm
https://redcap-dev01.brisc.utah.edu/redcap
http://www.further.utah.edu