

**IOWA**

Carver College of Medicine

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# Information Technology

**Faculty Orientation**

Spring 2022

# Services

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- Information Technology & Informatics Consulting
- Getting IT Help\*
- Software\*
- Data Storage Options\*
- MacDesk
- High Performance Computing (HPC)
- TriNetX
- Clinical Research Data Request Service
- REDCap
- UI BioShare
- Epic Research Support
- Innovative Technologies Consulting
- Mobile Technology Group
- Biostatistics, Epidemiology and Research Design
- Clinical Trials Website

# Services

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\* What we will cover in the allotted time

# Information Technology & Informatics Consulting



**Boyd Knosp**

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# Getting Help – Help Desks

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## Healthcare Helpdesk (HCIS)

- Support for EPIC, the Point/The Loop, Healthcare desktop support, software installation, hospital conference room support, network and internet support.
- [helpdesk-hcis@uiowa.edu](mailto:helpdesk-hcis@uiowa.edu)
- (319) 356-0001
- Self Service Portal: <https://service.healthcare.uiowa.edu/>

## Information Technology Services (ITS)

- ICON support, personal computer support & troubleshooting, University SharePoint, Employee Self Service
- [its-helpdesk@uiowa.edu](mailto:its-helpdesk@uiowa.edu)
- (319) 384-4357
- Live chat <http://helpdesk.its.uiowa.edu/connect/>
- Website: <https://its.uiowa.edu/>

## Pop Up IT Support Desk

- 9:00am -11:00am each Friday in BSB, details at <https://medicine.uiowa.edu/it/>

# Getting Help – Learning & Research

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## Classroom and Meeting Technologies (CCOM)

- Provides technology and presentation support to classrooms and meeting spaces in Carver College of Medicine facilities
- [ccom-cmt@uiowa.edu](mailto:ccom-cmt@uiowa.edu)
- (319) 335-8590

## Bio-medical Informatics virtual Walk-in hours

- Provides support for bio-medical informatics and research IT
- Virtual walk-in: <https://uiowa.zoom.us/j/288527521>
  - Monday & Wednesday 1:00pm-3:00pm
  - Friday 9:00am-11:00am
- [icts-bmi-consulting@healthcare.uiowa.edu](mailto:icts-bmi-consulting@healthcare.uiowa.edu)

# Software

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University of Iowa faculty and staff have access to licensed software. Software that is available at a **subsidized cost** or free includes:

- Microsoft products
- EndNote
- GraphPad Prism
- Lasergene
- SnapGene
- MatLab
- PyMol
- SAS
- SPSS
- SigmaPlot
- Adobe Creative Suite
- and many others are available

The Help Desk can assist you with adding software to your work machine.  
[helpdesk-hcis@uiowa.edu](mailto:helpdesk-hcis@uiowa.edu)

Review software available at UI: <https://its.uiowa.edu/software>

# Campus Network

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## **Hospital/Healthcare – StaffNet**

Staffnet is available for UIHC-managed computers, in research/academic buildings, using your HealthcareID and Healthcare Password.

## **Iowa - eduroam**

You can connect multiple devices such as laptops, tablets, and smartphones to the eduroam network using your HawkID @uiowa.edu and HawkID password. <https://its.uiowa.edu/wireless>

## **Virtual Desktop Iowa**

<https://virtualdesktop.uiowa.edu/Citrix/VirtualDesktopWeb/>

## **Healthcare Virtual Desktop**

<https://desktop.healthcare.uiowa.edu/Citrix/UIHealthCareWeb/>



# Data Storage Options

\*approved for data out of the EMR

	Healthcare S:Drive*	CCOM R:Drive*	RDSS	LSS	OneDrive
<b>Use</b>	Research teams/departments who don't need to storage a large amount of data	Researchers in the Carver College of Medicine who need to store a large amount of data or need HIPAA-Compliant storage	Researchers who need audited storage for data or need their data to be highly available	Researchers who need to use HPC systems to analyze their data or need to store a large amount of data.	Researchers who need an easy way to collaborate with others.
<b>Backups</b>	Daily	Yes	Yes	Optional	Continually
<b>Snapshots</b>	30-day snapshots	Daily	Daily	HPC: Hourly, Daily, Monthly Non-HPC: Daily	Continually
<b>Retention</b>	30 days	90 days	30 days	30-90 days	Up to 90 days
<b>Max Capacity</b>	1GB	10TB	10TB	N/A	1TB
<b>Access</b>	SMB/CIFS	SMB/CIFS	NFS, SMB/CIFS, sftp	HPC: NFS, SMB/CIFS, Mixed CIFS/NFS, GridFTP, scp/sftp, rsyn	Web or Desktop Client
<b>Fees</b>	Covered by your department	Covered by CCOM IT and UI Healthcare	If research faculty 5TB	If research faculty 5TB	No charge

# MacDesk - HCIS

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The MacDesk is a technical support team specializing in all aspects of Apple workstation support. The MacDesk is equipped to enroll UI tagged and inventoried Macs into a centralized reporting and maintenance system to assist departments with the maintenance of inventory, compliance and security items related to IT.



An added benefit of enrollment is the Self Service application, offering customers self help utilities, installers and tools to satisfy routine IT needs without engaging the MacDesk.

Contact: [MacDesk-HCIS@healthcare.uiowa.edu](mailto:MacDesk-HCIS@healthcare.uiowa.edu) or call (319) 356-0001

# High Performance Computing - ITS

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Argon, a locally-hosted HPC resource, is managed by specialists who provide support and consultation services on data stewardship, compliance, scientific software, and more. It features approximately 15,000 processor cores and 110 graphics processing unit (GPU) accelerators (both Infiniband and Omnipath interconnects). In Q419, Argon's power will increase by around 40 percent with double the number of GPUs. Up to eight GPUs will be available on a single system.

Website: <https://hpc.uiowa.edu/>

Contact: [research-computing@uiowa.edu](mailto:research-computing@uiowa.edu)

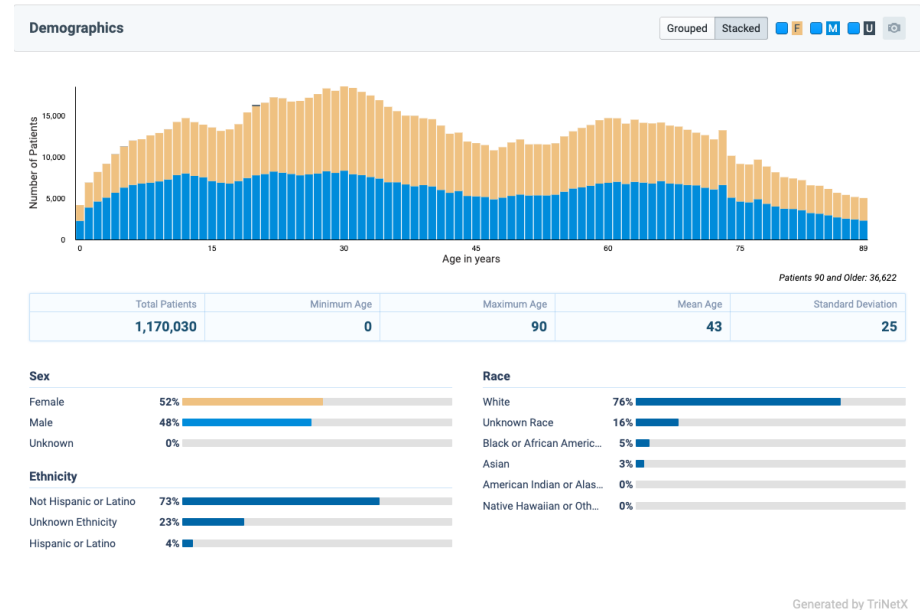
# Self Service Data Exploration Tool (TriNetX) - ICTS

This tool provides researchers the ability to explore a limited, de-identified set of patient data.

This tool is most useful for identification of patient cohorts for preparation to research.

## Data Types Available in the Tool

- Demographics
- Diagnosis: ICD9/ICD10
- RX Prescriptions & Administrations
- Procedures: CPT/ICD9
- Labs: LOINC
- Vitals



Access:

<https://live.trinetx.com/>

Get help:

[icts-bmi-consulting@healthcare.uiowa.edu](mailto:icts-bmi-consulting@healthcare.uiowa.edu)

# Clinical Research Data Request - ICTS

This service provides researchers custom data extracts from our EMR and access to other data available through the Enterprise Data Warehouse for Research (EDWR).

Access:

- Use our TriNetX service to explore and identify a cohort you are interested in for research **OR**
- Consult with a data analyst about your specific cohort and data needs
- Create a request for either identified or de-identified row level data from this service.

Study ID	Age	Gender	Smoker	Weight	Height	BMI	Race
1	49	Female	No	52	156.5	21	Native Hawai
2	75	Female	No	57.8	158.4	23	More Than O
3	26	Female	No	49.9	148.3	23	White
4	75	Male	No	63.9	151.1	28	White
5	55	Male	No	62.9	151.6	27	White
6	31	Female	No	51.8	153.9	22	White
7	35	Male	No	62.9	154.1	27	White
8	77	Female	No	57.2	151.4	25	White
9	53	Male	Yes	66.3	151.5	29	White
10	41	Female	No	48.1	152.1	21	White
11	86	Male	No	60.8	152.3	26	Asian
12	84	Female	No	56.5	151.9	25	White
13	27	Female	Yes	54.4	152.2	24	White
14	85	Female	No	55.7	153.5	24	Native Hawai
15	62	Male	No	63	151.8	27	White
16	58	Female	No	53.5	154.8	22	White
17	54	Female	No	58.4	152.7	25	White
18	44	Female	No	50.1	149	23	Asian
19	70	Female	Yes	57.6	150.1	26	Asian
20	32	Male	Yes	60.3	151.6	26	More Than O

Get help:

[icts-bmi-consulting@healthcare.uiowa.edu](mailto:icts-bmi-consulting@healthcare.uiowa.edu)

# Research Electronic Data Capture (REDCap) - ICTS

REDCap is a mature, secure web application for building and managing online surveys and databases.

REDCap provides automated export to Excel and common statistical packages (SPSS, SAS, Stata, R)

REDCap can be used to collect virtually any type of data

- HIPAA-compliant
- FISMA (moderate)



Access:

<https://redcap.icts.uiowa.edu/redcap/>

Get help:

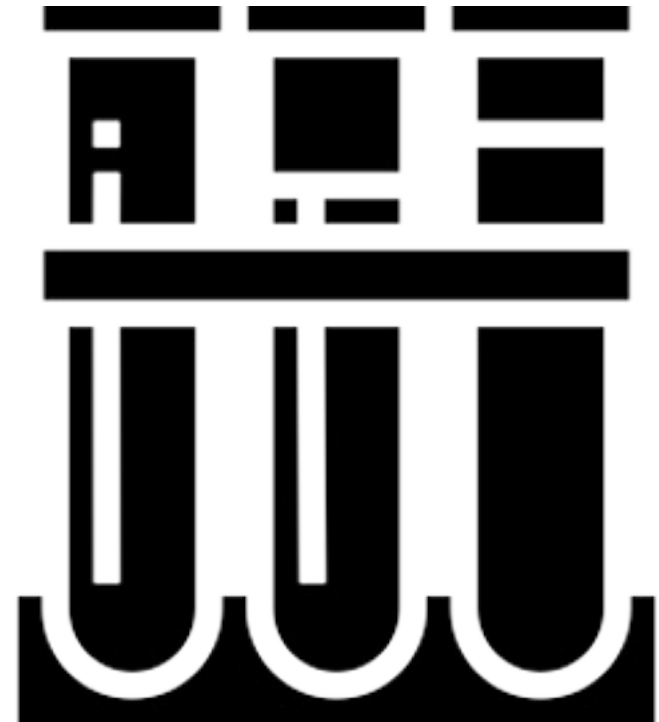
[icts-bmi-consulting@healthcare.uiowa.edu](mailto:icts-bmi-consulting@healthcare.uiowa.edu)

# UI BioShare - CCOM

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UI BioShare manages and houses human subject research specimens together with associated clinically annotated subject data within a single software application.

Service features include data migration, a single point of contact to acquire tissue, subject matter expertise in both clinical research and data management systems.



Contact: [icts-bmi-consulting@healthcare.uiowa.edu](mailto:icts-bmi-consulting@healthcare.uiowa.edu)

# Epic Research Support - ICTS

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- Paperless CRU, Building electronic order sets for a study
- Building Epic Workbench report for a research study when a data request is not suitable
- Best Practice Advisory (BPA) for research
- Other Epic consulting as referred
- Referred via ICTS BMI Consulting

Contact: [icts-bmi-consulting@healthcare.uiowa.edu](mailto:icts-bmi-consulting@healthcare.uiowa.edu)



# Innovative Technologies Consulting - ICTS

Custom Data, Software Development, Device integration,  
Research System Administration & more

- When 'One Size' does not fit all
- Consulting for a proposal/grant protocol
- Research Technology problem solving
- Unix or Linux research system management
- Require compute space for HIPAA data
- Require software, hardware or data solution not covered by the University's current technology offerings
- Letters of support
- Referred via ICTS BMI Consulting
  - [icts-bmi-consulting@healthcare.uiowa.edu](mailto:icts-bmi-consulting@healthcare.uiowa.edu)

# Clinical Research & Trials Website - ICTS

The Clinical Research and Trials website provides people interested in participating in clinical research at the University of Iowa a place to go to find research studies that match their interest.

The website automatically pulls in data from from HawkIRB and clinicaltrials.gov when approved by the research team. <https://clinicaltrials.uihealthcare.org/>

The screenshot shows the homepage of the Clinical Research and Trials website. At the top, there is a navigation bar with the University of Iowa Health Care logo and links for Home, About, Studies, and Volunteer. Below the navigation bar is a large image of a doctor in a white coat examining a patient. The text "Clinical Research and Trials" is overlaid on the bottom of the image. Below the image is a search bar with the placeholder text "Search for a study". Underneath the search bar, there is a paragraph of text: "Clinical research is an important part of patient care. You can gain access to new drugs and therapies, and help our researchers discover the treatments of tomorrow." Below this text is another paragraph: "Anyone can participate in clinical research, and it is completely voluntary. Whether you are completely healthy or living with a specific disease or condition, there may be a study out there waiting just for you." At the bottom of the page, there are three buttons labeled "All Studies", "Cancer Studies", and "Children Studies". At the very bottom, there is a dark grey banner with the text "Volunteer for Research" and a "Register Now" button.

The screenshot shows a detailed page for a COVID-19 Pfizer Vaccine study. The navigation bar at the top is the same as the homepage. Below the navigation bar, the breadcrumb trail reads "Home > Studies > COVID-19 Pfizer vaccine". The main heading is "COVID-19 Pfizer Vaccine". To the right of the heading is a yellow button that says "I'm Interested". Below the heading is an "Overview" section. The text in the overview section reads: "This is a Phase 1/2b, randomized, placebo-controlled, observer-blind, dose-finding, vaccine candidate selection, and efficacy study in healthy adults. The study consists of 2 parts: Phase 1: to identify preferred vaccine candidate(s) and dose level(s); Phase 2b: an expanded cohort and efficacy part. The study will evaluate the safety, tolerability, and immunogenicity of 2 different SARS-CoV-2 mRNA vaccine candidates against COVID-19 and the efficacy of 1 candidate: - As a 2-dose (separated by 21 days) schedule. - At various different dose levels in Phase 1; - In 3 age groups (Phase 1: 18 to 55 years of age, 65 to 85 years of age; Phase 2b: 18 to 85 years of age [stratified as <55 or >55 years of age]). The candidate selected for evaluation in Phase 2b is BNT162b2 (mRNA-dose)." To the right of the overview section is an "Eligibility" section with icons for "Adults" and "Healthy Subjects". Below the eligibility section is a "Share" section with icons for Facebook, Twitter, and LinkedIn. Below the share section is a "Details" section with the following information: "IRB Number: 202004789", "NCT Number: NCT04368720", "Study Status: Open", "Study Type: Interventional", "Primary Purpose: Prevention", "Phase: Phase 2/Phase 3", "Cancer Study: No", and "Compensation Available: Yes". Below the details section is a "Principal Investigator" section with the name "Patrick Windecker" and his title "Medicine Administration". At the bottom of the page, there is a dark grey banner with the text "Volunteer for Research" and a "Register Now" button.

# Clinical Research and Trials Office

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# Mobile Technology Lab - ICTS

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One of the major goals of the Mobile Technology Lab within the is to build and support tools to help investigators collect data from a wide range of subjects for a broad range of diseases using mobile devices.

- Asking about the presence or absence of symptoms after starting a new therapy or after a surgical procedure (e.g., levels of post-operative pain over time)
- Asking for specific health measurements that patients can take in their own home (e.g., temperature)
- Sending automated reminders to perform specific tasks at specific times (e.g., physical therapy exercises)
- Prompting for images of surgical sites after discharge
- Using video reminders for physical therapy that show how to do the exercise properly
- Prompting parents to record video and audio of seizures/spells, physical activities of children in their home environment

Website: <https://icts.uiowa.edu/investigators/mobile-technology-lab>

Contact Email: [shelby-francis@uiowa.edu](mailto:shelby-francis@uiowa.edu)

# **Biostatistics, Epidemiology & Research Design (BERD) Core - ICTS**

BERD (Biostatistics, Epidemiology and Research Design) facilitates research design and biostatistical expertise for credible evidence generation across the spectrum of clinical and translational research. The BERD core is comprised of faculty and staff with methodological expertise in health care research and can be provided in either consultative or collaborative frameworks.

## Consultation services

- Help develop research protocols and enhance methodological planning
- Provide new methodological innovations
- Design and analysis of clinical and translational research studies across the T1-T4 spectrum
- Apply innovative approaches to study design, data collection, and statistical analysis in a variety of areas including adaptive and Bayesian clinical trial design and comparative effectiveness research

Contact: Email: [patrick-teneyck@uiowa.edu](mailto:patrick-teneyck@uiowa.edu)

Request a consult: <https://redcap.icts.uiowa.edu/redcap/surveys/?s=9394WNNNWF>

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**Thank You**