Scientific Computing and Data Research Data Services

Introduction to REDCap

https://redcap.mountsinai.org

Priscilla Acquaye – REDCap Administrator



Introduction – Team Members



Patricia Kovatch
Professor and Dean for
Scientific Computing and Data



Catherine Bauer-Martinez
REDCap Analyst



Ranjini Kottaiyan
Senior Director,
Finance & Research Engagement



Farhan Mahmood IT Director



Priscilla Acquaye REDCap Analyst



Jing Yang, PhD
Applications Support Analyst

Acknowledgements



Acknowledge CTSA:

An acknowledgement of support from the Icahn School of Medicine at Mount Sinai and the Clinical and Translational Science Awards (CTSA) grant UL1TR004419 from the National Center for Advancing Translational Sciences should appear in a publication of any material, whether copyrighted or not, based on or developed with Mount Sinai-supported computing resources:

Please use the following acknowledgement in your publications:

"This work was supported in part through the computational and data resources and staff expertise provided by Scientific Computing and Data at the Icahn School of Medicine at Mount Sinai and supported by the Clinical and Translational Science Awards (CTSA) grant ULTR004419 from the National Center for Advancing Translational Sciences."

Acknowledge Scientific Computing and Data:

All publications must include the following language in the acknowledgments section:

"This work was supported in part through the Mount Sinai Data Warehouse (MSDW) resources and staff expertise provided by Scientific Computing and Data at the Icahn School of Medicine at Mount Sinai."

Your Publications

Report publications to Scientific Computing and Data:

All publications that resulted from Scientific Computing and Data resources and services, including Leaf and ATLAS, should be reported annually.

To report your publications, submit them here: https://redcap.link/a21haj0q

For 20 or more publications, please email Maria Castro at mariajulia.castro@mssm.edu

Overview

- **▶** Creating your REDCap account
- **▶** Project Setup
 - Templates
 - Project page
 - Longitudinal Studies
 - Online Designer
 - Surveys
 - Variables
 - Obtaining Data
- **▶** Data Management
- ▶ Managing Users
- **▶** Project Life Cycle

REDCap at Mount Sinai

- **≥ 21 CFR Part 11 compliant** joint effort by Scientific Computing, IT, IRB and Privacy Offices
- **▶** Data resources and integration between existing systems
 - Import clinical data into REDCap from Epic (over 1800 mapped fields)
 - -Basic Demographics
 - -Conditions/Problems list
 - -Medications
 - –Vital signs
 - -Laboratory Results (lab results where LOINC code is stored in Epic)
 - -Submit requests to https://bit.ly/3guXoag
- **▶** We host more than 10,000 databases, with over 18,000 active users
- ▶ Services for project building, data protection, support, and training

Digital Concierge Service

Virtual REDCap Office Hours: Wednesdays at 3:30pm to 4:30pm

- -Open to all users
- -Get help with specific project questions

Every Wednesday from 3:30 p.m. – 4:30 p.m. (ET): Click here to register and join

You can also get help with other services such as: DTP Academic Technology, HPC, MSDW, Self-service Cohort Query Tools, eRAP, Data Ark Data Commons, DTP Cybersecurity, and Levy Library Resources and Services

Additionally we plan on opening an extra day once a month to accommodate users who cannot attend on Wednesdays.

Creating a REDCapAccount

Mount Sinai Users:

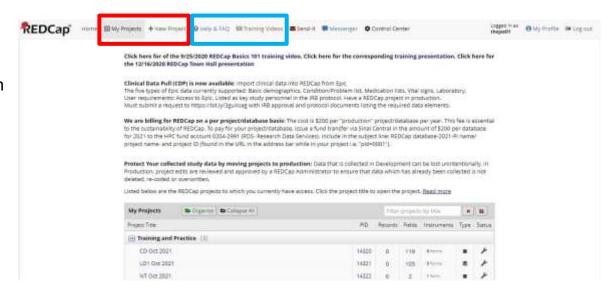
▶ Mount Sinai faculty, students and staff can log into REDCap using their regular Mount Sinai username and password here: https://redcap.mountsinai.org

External Users:

For external collaborators without Mount Sinai credentials, the PI or their delegate must request Mount Sinai credentials via SailPoint: https://sailpoint.mountsinai.org/

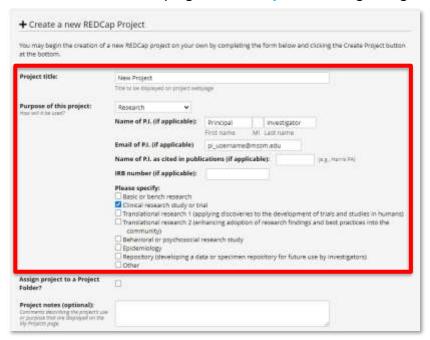
Creating a New Project

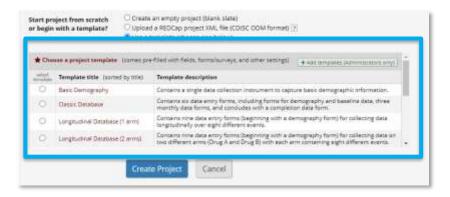
- Users can find the projects they have access to under My
 Projects at the top of the page.
 These are projects they've been added to or have created.
- ► To create a project, click on the adjacent **New Project** button.
- ▶ Along the top bar, users will also find great resources under Help & FAQ as well as Training Videos for learning to use REDCap.



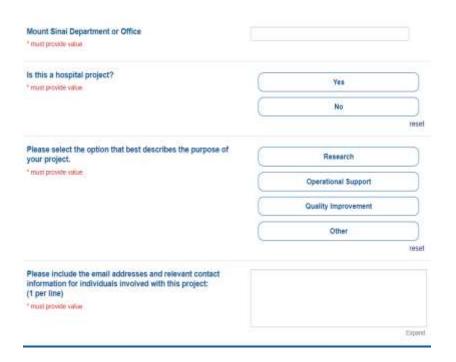
Creating a New Project Cont'd

- ▶ When creating a new project, users can fill out **project details** and the type of research that will be conducted
- ▶ On the same page are templates for getting started on a new project





Creating a New Project Cont'd



First Name (' 'Project Lead) 'must provide value 'must provide value 'must provide value		
Last Name ("" Project Lead) "must provide value		
Employee (D (Life number); (""Project Lead) "mad powde valie		
Email Address ['' Project Lead) "must provide value		
Project Funding (Currently to for development project	cts)	
Project Funding (Currently for development project Funding (Currently for development project Funding (Currently for development project Funding Fundi	cts)	
Project Funding (Currently for development project Please provide your fund account number. Project Description	cts)	

Project Page



Exame Trailio IMS and Voice Call services for surveys and elects. 1

\$75 13336

CD Oct 2021

REDCap*

Contact REDCau administrator

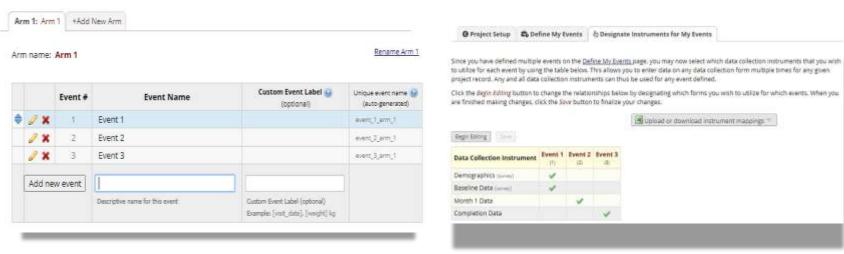
- Modify project title, PI, and
- Enable Longitudinal data collection
- Access the Online Designer
- Access/download the data
- Find information on unique REDCap functions
- Define how a longitudinal study is

Extended customizations and

Mount Sinai, Intro to REDCap, February 24th 2023

Longitudinal Studies

- ▶ Define each of the study Arms and Events for those Arms
- ▶ Designate Instruments for each Arm and Event



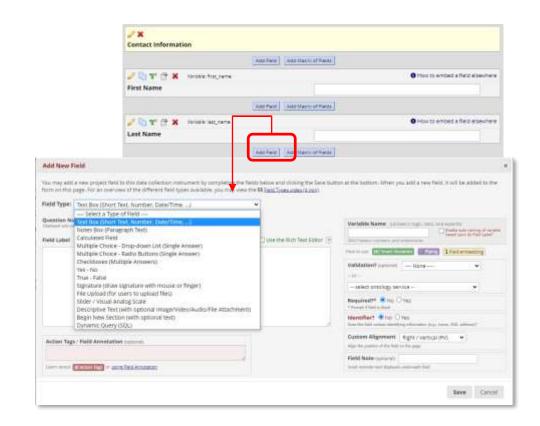
Online Designer – Instruments/Surveys

- Create, import, and manage data collection forms
- Enable instruments as surveys
- Edit data collection instruments and variables
- ▶ Define how participants can get automated invitations by email



Online Designer – Variables

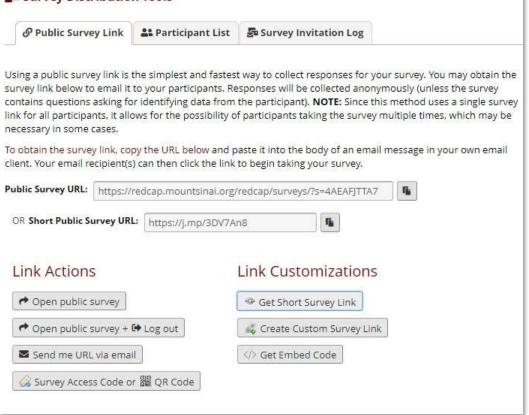
- ▶ Variables allow users to define discrete data points for collection
- Short, simple, and identifiable names for variables are preferred
- ▶ Choose the field type that best fits the data point
- Note: Collection and maintenance of PHI in a protected and confidential manner is the responsibility of the investigators



Obtaining Data

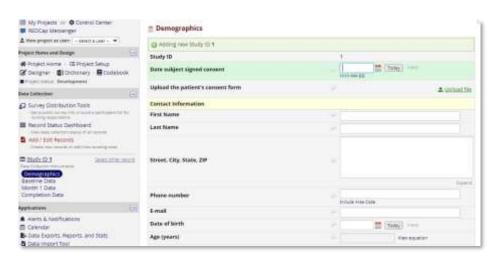
Survey Distribution Tools

- ▶ Invite participants to take a survey by sharing Public Survey URLs or QR codes
- Monitor follow-up surveys and previously sent invitations, manage the survey's participants list



Obtaining Data – Data Entry Form

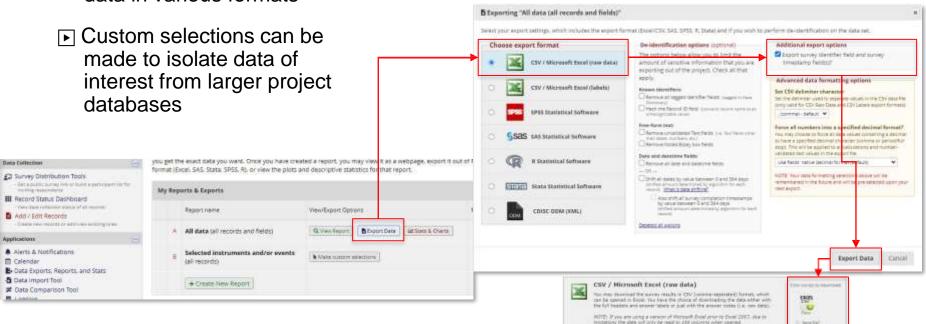
- For data points that are not collected during the surveys, they can be entered in the Record Home Page
- ▶ Can enter new data, overwrite data, or make notes on data for the record





Data Management- Export Data

▶ Data Exports, Reports, and Stats contain methods to export collected data in various formats



Data Management – Editing Data

- ▶ Data edits can be made on csv files in Excel
- ▶ Records show all data collected for a specific Event and Arm
- ▶ Some data will appear as entered by survey participants with free text entry, while other data is coded as discrete selections as in the case of multiple-choice selections

4	Α	В	С	D	Е	F	G	Н	1	J	K	L	М	N	0	Р	Q
1	study_id	redcap_event_name	redcap_su	demograp	date_enro	patient_d	first_nam	last_name	address	telephone_1	email	dob	age	ethnicity	race	sex	given_birt r
2	1	event_1_arm_1		***************************************	***********		test1	test1	Some place	(444) 444-4444		#########	0	1	1	1	
3	1	event_2_arm_1															
4	2	event_1_arm_1			#########		test2	test2	Somewhere	(555) 555-5555		***************************************	C	2		0	0
5	3	event_1_arm_1		***************************************	***************************************		test1	test1	Some place	(444) 444-4444		***************************************	C	1	1	1	
6	3	event_2_arm_1															
7	4	event_1_arm_1			#########		test2	test2	Somewhere	(555) 555-5555		***************************************	C	2		0	0
8	5	event_1_arm_1		***************************************	***************************************		test1	test1	Some place	(444) 444-4444		***************************************	C	1	1	1	
9	5	event_2_arm_1															
10	6	event_1_arm_1			#########		test2	test2	Somewhere	(555) 555-5555		***************************************	C	2		0	0
11																	

Data Management – Importing

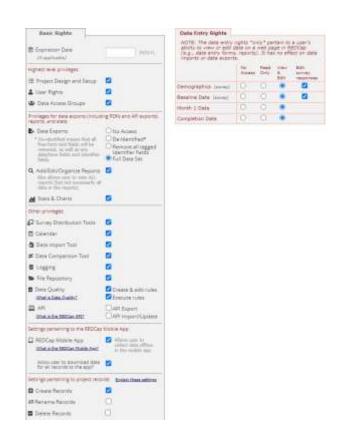
- ▶ Data Import Tool allows for users to import new data or edited data by each record
- An effective tool for importing larger blocks of data
- Don't be intimidated by errors since they are a common occurrence in data imports
- Each error will need to be resolved before a set of data can be successfully uploaded





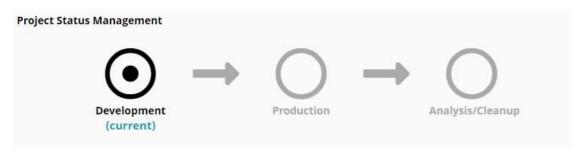
Managing Project Users

- Users with accounts can be added to a project in the User Rights section of your project
- ▶ When adding or modifying existing users, a long checkbox section will appear to manage their access
- ▶ It is important to properly manage user rights to protect data and PHI, control project design and life cycle, and maintain accountability



Project Life Cycle

- **▶ Development** phase of the project is best for creating and testing a project
- Production phase protects collected data by flagging project changes for data loss review
- ▶ Analysis/Cleanup phase for finalizing analysis and ending a study (no changes can be made to the project in this phase, only access to view data)



Thank You!

Thank you for your time! We hope you enjoyed this presentation.

Please take a minute to complete a short survey to provide your feedback and help improve our services:



https://redcap.link/iwughq7m