



# REDCap: Research Electronic Data Capture

All Purpose Data Tool

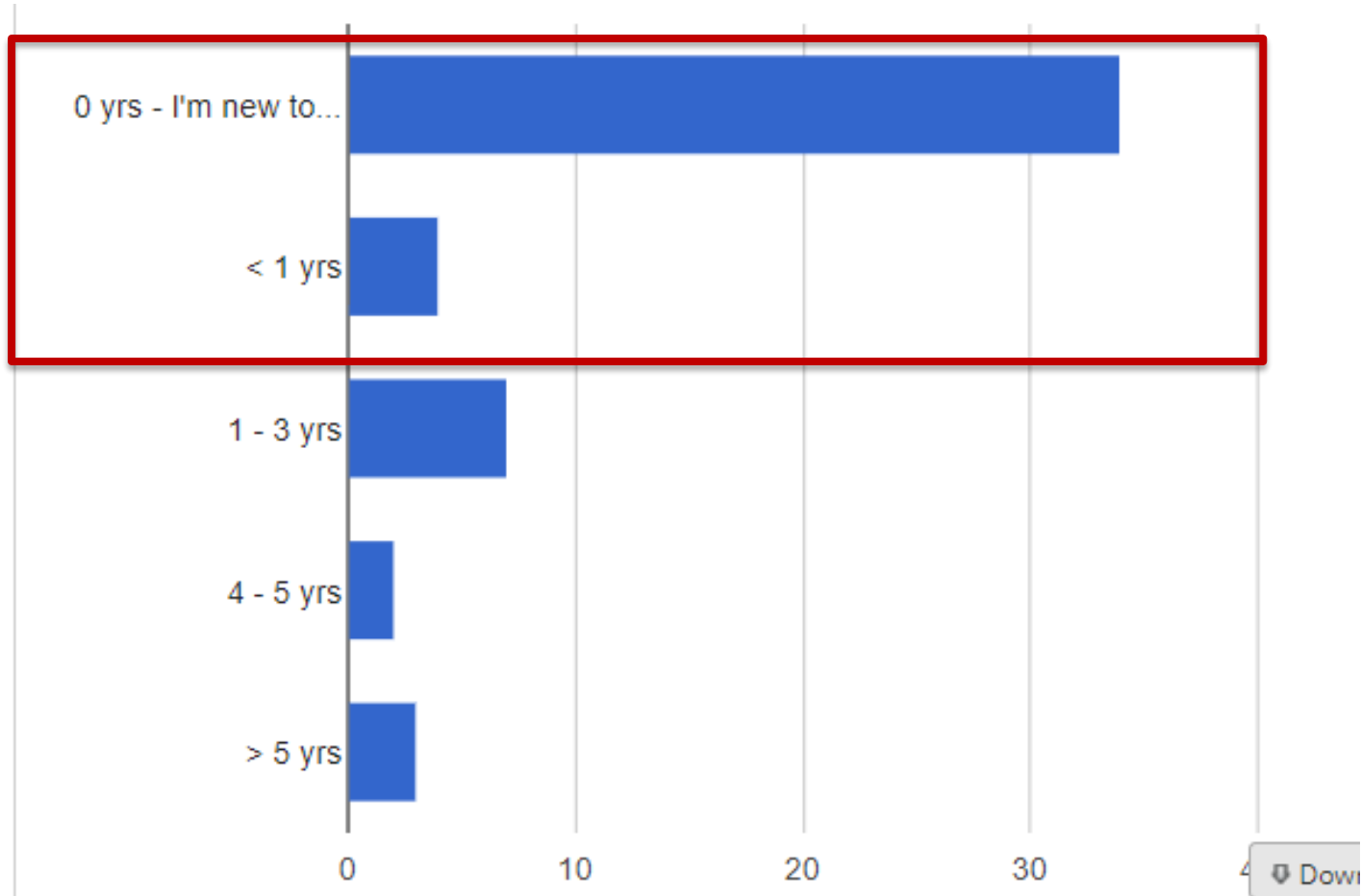
*Mary Geda*

*Sui Tsang*

*September 8, 2023*

# Today's Audience

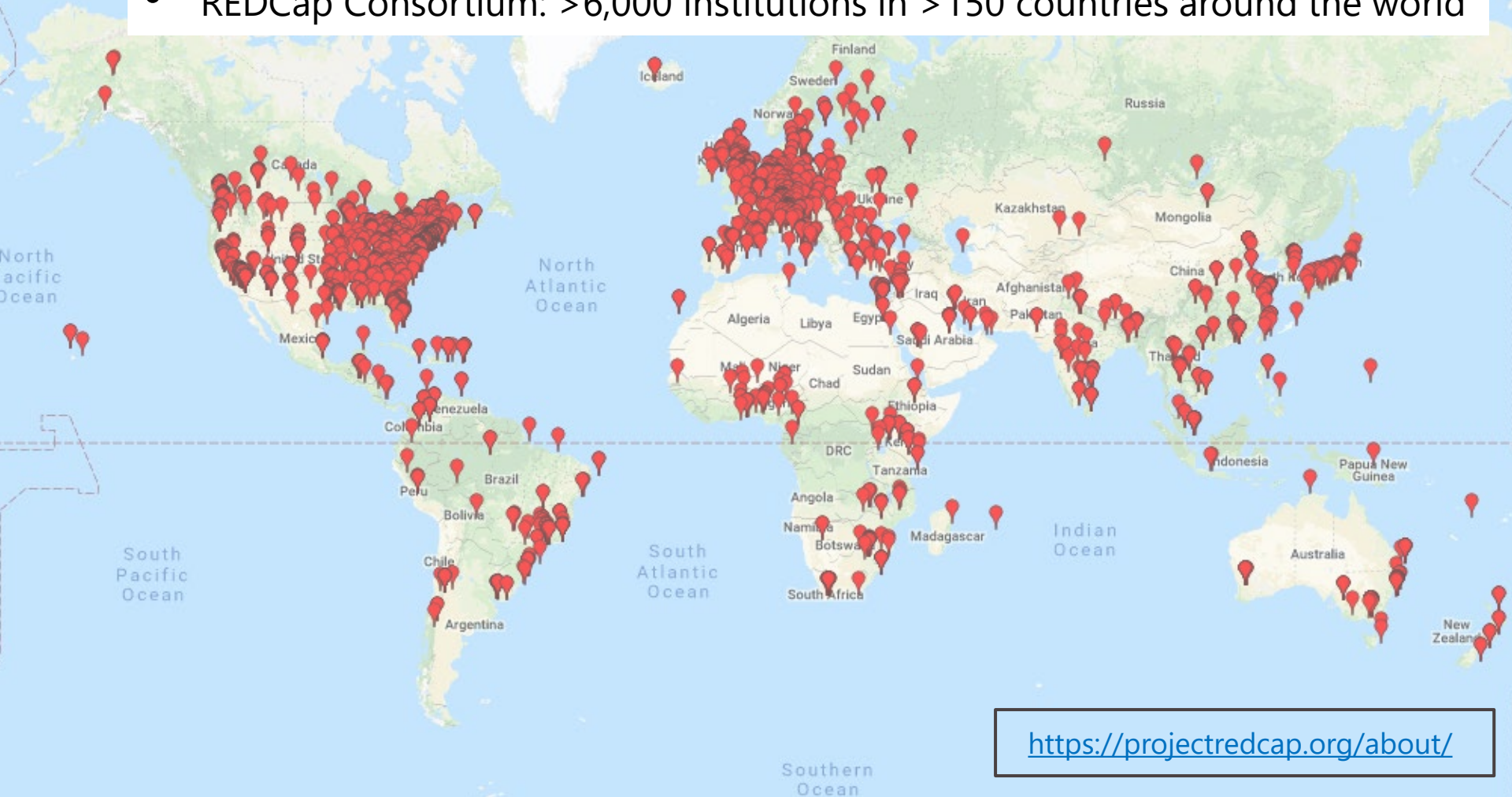
*How many years have you used REDCap?*



# Introduction and Learning Objectives

- Learn about REDCap:
  - What it is
  - How to access it
  - Quality control and compliance functions
  - What steps are used to build projects
  - How you can get data into REDCap
  - Tools: reports, statistics, and exports
  - Resources to help you get started
  - [If time]: Advanced features

- REDCap (Research Electronic Data Capture) is a secure web-based application for data capture and study management.
- Developed at Vanderbilt in 2004 by Paul A. Harris and colleagues
  - Clinical and Translational Science Award (CTSA) funding
- REDCap Consortium: >6,000 institutions in >150 countries around the world



<https://projectredcap.org/about/>

# How does REDCap work?

- Direct data entry (i.e., form), survey, or data import
- Exports to Excel, CSV, SPSS, SAS, Stata and R, and CDISC ODM.
- Anyone can learn to use it

Logged in as d

My Projects o

Project Home

REDCap Messe

Project status: P

Data Collection

Record Status

Add / Edit Rec

Applications

Calendar

Data Exports, Reports, and Tools

Data Import Tool

Data Comparison Tool

Logging

Field Comment Log

File Repository

User Rights and DAGs

Record Locking Customization

E-signature and Locking Mgmt

Data Quality

API and API Playground

REDCap Mobile App

Reports [Edit reports](#)

- 1) Enrolled
- 2) Discontinued subjects
- 3) Climb Flight of Stairs
- 4) Intervention or Control
- 5) Step Counts
- 6) Outpatient Visits

Help & Information

Help & FAQ

Video Tutorials

Suggest a New Feature

Contact REDCap administrator

ID	Screening	Baseline	Meters	Activity	ADL	Efficacy	Assessment	SF12	COG	PHQ	Behavior	Space	Kinesiophobia	SPPB	Interview	Observ
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**UAB Life Space**

Editing existing Record ID 12

Event Name: **Baseline**

Record ID: 12

UAB Study of Aging Life - Space Assessment

1a. Past 4 wks been to other rooms besides room where you sleep?  Yes  No reset

1b. How often get to other rooms?  Daily

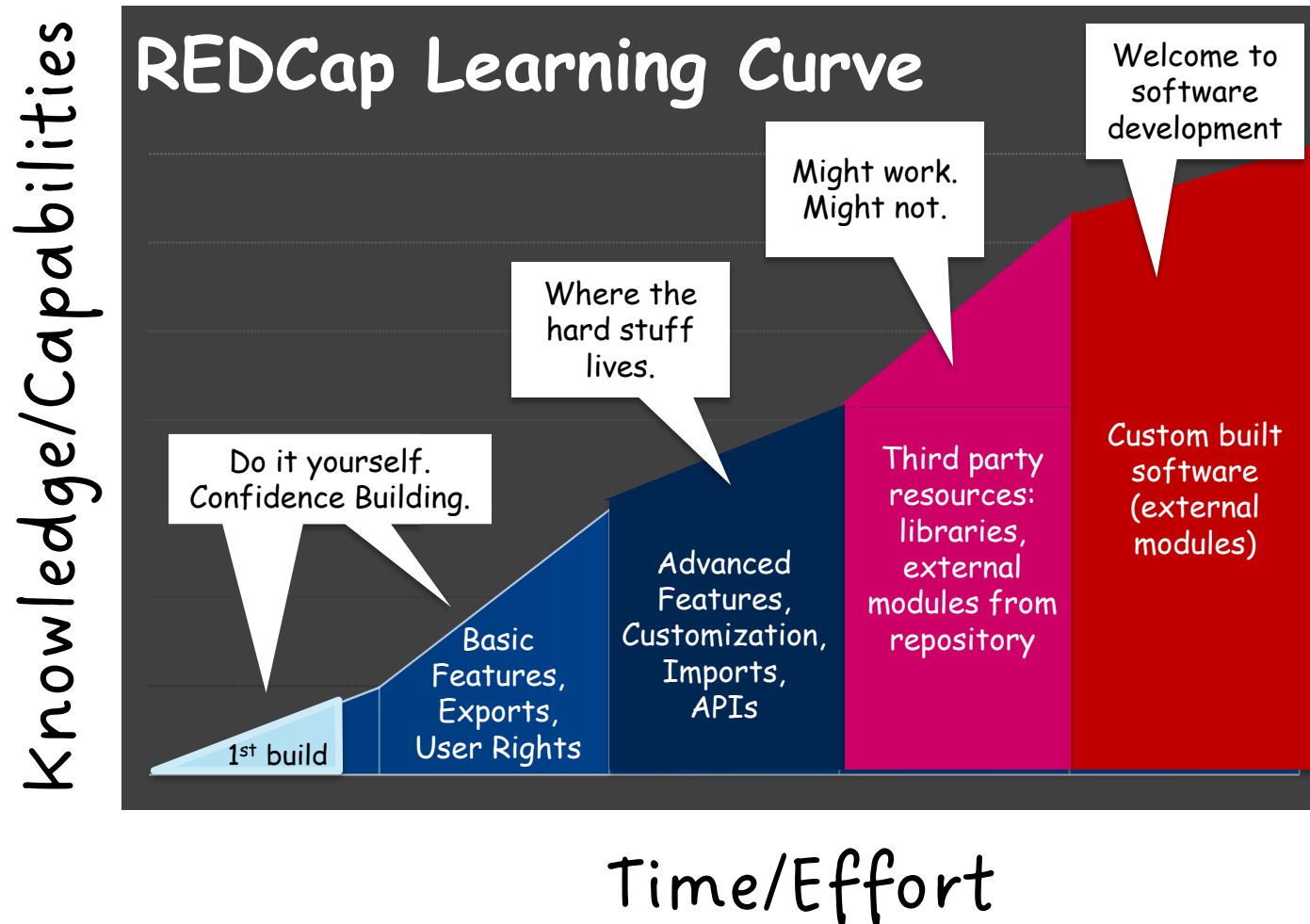
1c. Did you use aids or equipment? Did you need help from another person? (other rooms)  No equipment or personal assistace

2a. Past 4 wks been to an area outside your home such as your porch, deck or patio, hallway, etc?  Yes  No reset

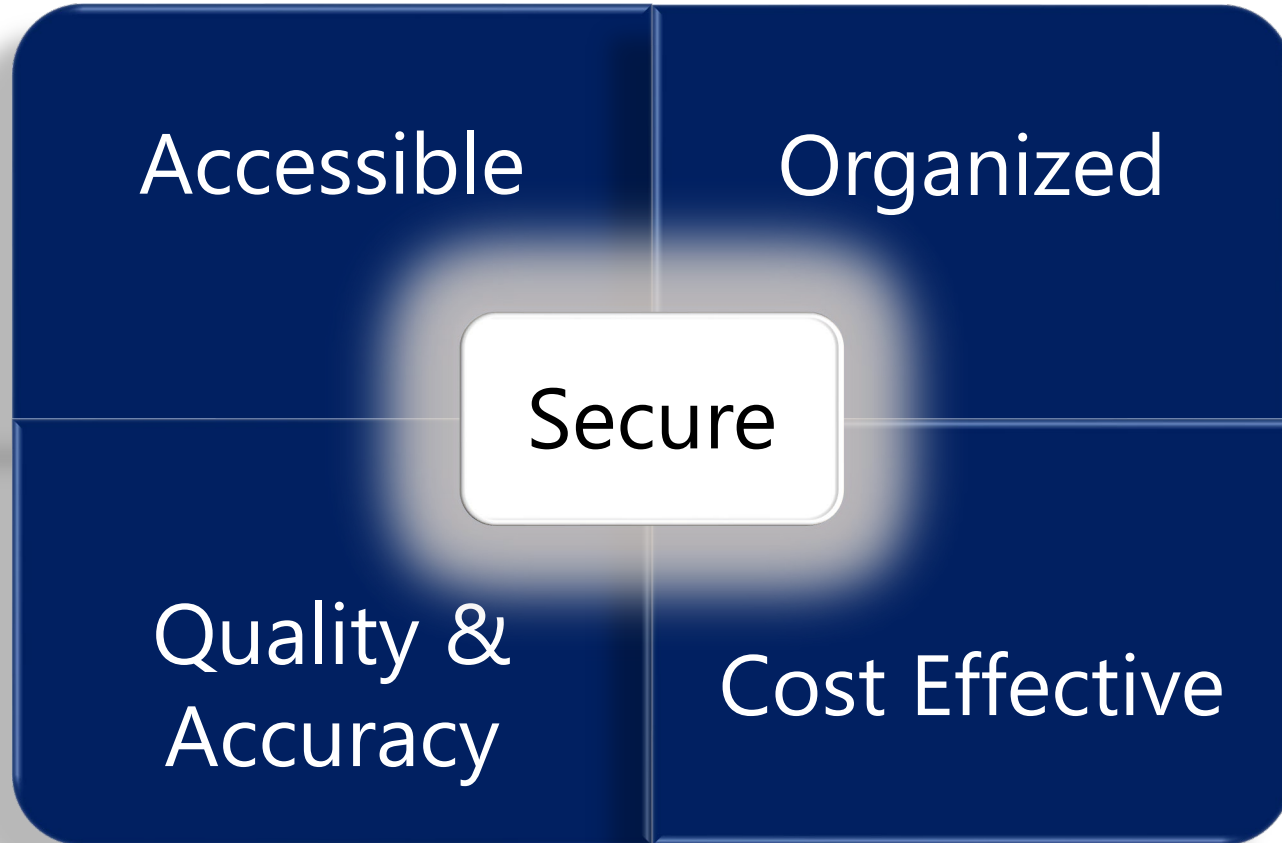
2b. How often get to areas outside your home?  Daily

2c. Did you use aids or equipment? Did you need help from another person? (outside areas)  No equipment or personal assistace

# Advantages: User Friendly



# Advantages



# Security & Compliance

1. Yale NETID credentials and multi-factor authentication

*Work in progress:* **InCommon**®

2. Secure servers behind an enterprise firewall, encrypted with TLS

3. Regulatory Requirements

*HIPAA, FDA 21 Part 11, GDPR*

Welcome to REDCap@Yale

## REDCap at Yale University

**OUR MISSION**  
To promote excellence through empowerment, on an informatics platform that encourages innovation and collaboration.

**ADDITIONAL LINKS**  
Check out our [portal website](#)  
[REDCap@Yale activity charts](#)

Please log in with your user name and password. If you are having trouble logging in, please contact the REDCap@Yale team.

Username:

Password:

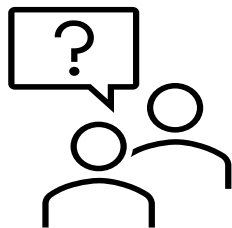
[Forgot your password?](#)



<https://portal.redcap.yale.edu/resources/security-compliance>



# Navigating- How do I get access?



Research Project Data Triage Team (YCCI)

HIPAA

GDPR

21 PART 11

REDCap at Yale University

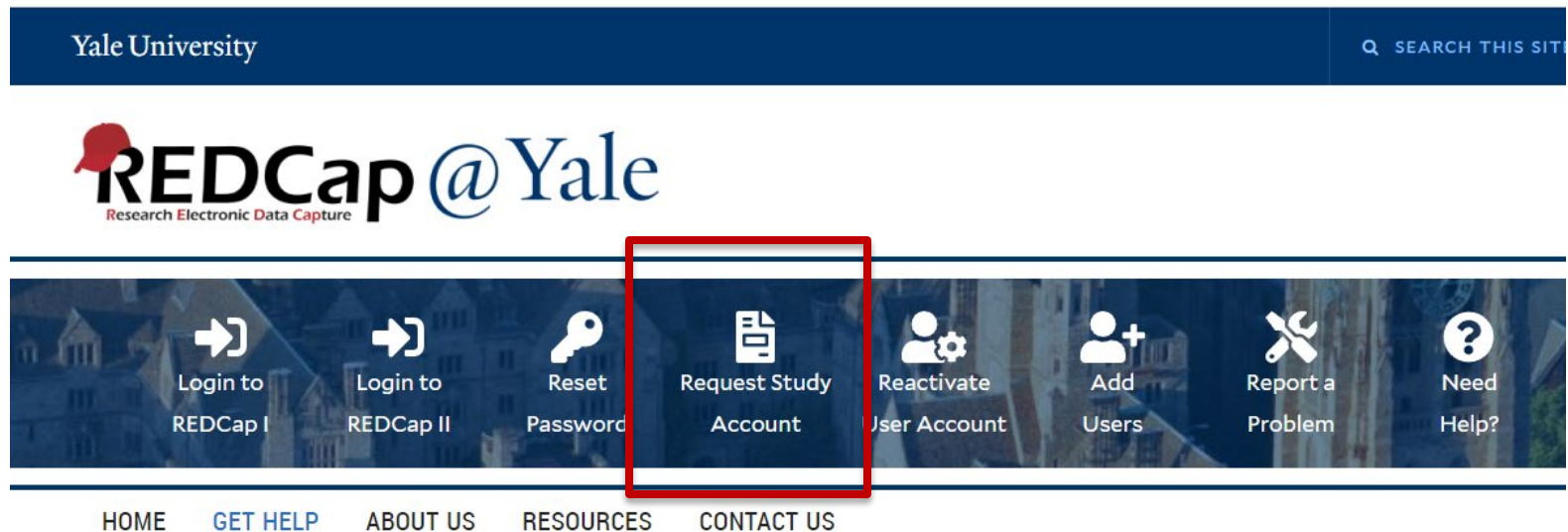
Yale  
NewHaven  
Health



Yale Center for  
Clinical Investigation

# How do I contact data triage?

- Email:  
[researchproject.data.triage@yale.edu](mailto:researchproject.data.triage@yale.edu)
- Website:  
<https://portal.redcap.yale.edu/>



# QUESTIONS or COMMENTS?

*Next: Quality Control/Compliance Functions*

Logged in as mg689 | Log out

My Projects or Control Center

REDCap Messenger

Contact REDCap administrator

View project as user: -- select a user --

**Project Home and Design**

- Project Home
- Project Setup
- Designer
- Dictionary
- Codebook
- Project status: **Production**

**Data Collection**

- Survey Distribution Tools
- Record Status Dashboard
- Add / Edit Records
- Show data collection instruments

**Applications**

- Project Dashboards
- Alerts & Notifications
- Multi-Language Management
- Calendar
- Data Exports, Reports, and Stats
- Data Import Tool
- Data Comparison Tool
- Logging and Email Logging**
- Field Comment Log
- File Repository
- User Rights and DAGs**
- Signatures
- Data Quality**
- API and API Playground
- REDCap Mobile App

**External Modules** Manage View Logs

**Help & Information**

- Help & FAQ
- Video Tutorials
- Suggest a New Feature

Contact REDCap administrator

1. Logging: Audit trails
2. User Rights and Access
3. Data Quality
4. Field Level Controls



REDCap 201  
Spring Session

# Logging: Audit trails

## Logging

Export (CSV):

This module lists all changes made to this project, including data exports, data changes, and the creation or deletion of users.

Filter by event: All event types (excluding page views) ▾  
Filter by user name: All users ▾  
Filter by record: All records ▾  
Filter by time range from  to         
Displaying events (by most recent): 1 - 100 (Page 1 of 3) ▾

Time / Date	Username	Action	List of Data Changes OR Fields Exported
10/22/2021 2:52pm	[REDACTED]	Manage/Design	Copy project as PID=2139 ("Copy of eConsent Scanned Image Demo")
09/14/2021 12:54pm	[REDACTED]	Manage/Design	Download instrument ZIP file
09/09/2021 12:11pm	[REDACTED]	Manage/Design	Download instrument ZIP file
09/09/2021 11:47am	[REDACTED]	Manage/Design	Download instrument ZIP file
07/08/2021 2:53pm	[REDACTED]	Manage/Design	Edit project field
07/08/2021 2:52pm	[REDACTED]	Manage/Design	Reorder project fields
05/04/2021 9:08pm	[survey respondent]	Updated Response 224	date_signed = '2021-05-04', fname = 'aaa', lname = 'bbb', participant_sign = '156712', participant_consent_v2_complete = '0'
05/04/2021 8:42pm	[survey respondent]	Updated Response 225	participant_sign = '156705'
05/04/2021 8:42pm	[survey respondent]	Updated Response 225	date_signed = '2021-05-04', fname = 'test', lname = 'test',

# User Rights & Access

**Basic Privileges**

Expiration Date  (M-D-Y)  
*(if applicable)*

**Highest level privileges:**

- Project Design and Setup
- User Rights
- Data Access Groups

**Other privileges:**

- Calendar
- Add/Edit/Organize Reports   
Also allows user to view ALL reports (but not necessarily all data in the reports)
- Stats & Charts
- Data Import Tool
- Data Comparison Tool
- Logging
- File Repository
- Data Quality  [What is Data Quality?](#)
  - Create & edit rules
  - Execute rules

**Privileges for Viewing and Exporting Data**

Data Viewing Rights pertain to a user's ability to view or edit data on pages in the project (e.g., data entry forms, reports). Users with 'No Access' Data Viewing Rights for a given instrument will not be able to view that instrument for any record, nor will they be able to view fields from that instrument on a report. Data Export Rights pertain to a user's ability to export data from the project, whether through the Data Exports page, API, Mobile App, or in PDFs of instruments containing record data. Note: Data Viewing Rights and Data Export Rights are completely separate and do not impact one another.

	Data Viewing Rights			Data Export Rights			
	No Access (Hidden)	Read Only	View & Edit	No Access	De-Identified*	Remove All Identifier Fields	Full Data Set
Screening Form	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contact Information Form	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consent Call Log	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consent Form	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interview Call Log	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interview Start	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ESAS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Physical Function: Activities Of Daily Living	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Physical Activity: Leisure Time (Baseline)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# Data Quality

REDCap allows you to create rules that can be used to monitor and check data quality.

**Data Quality Rules** ✔ Processing Complete! **Execute rules:**

Apply to:

Rule #	Rule Name	Rule Logic (Show discrepancy only if...)	Real-time execution <input type="checkbox"/>	Total Discrepancies	
A	Missing values*	-		313	<a href="#">view</a>
B	Missing values* (required fields only)	-		0	<a href="#">view</a>
C	Field validation errors (incorrect data type)	-		0	<a href="#">view</a>
D	Field validation errors (out of range)	-		0	<a href="#">view</a>
E	Outliers for numerical fields (numbers, integers, sliders, calc fields)	-		0	<a href="#">view</a>
F	Hidden fields that contain values**	-		0	<a href="#">view</a>
G	Multiple choice fields with invalid values	-		0	<a href="#">view</a>
H	Incorrect values for calculated fields	-		0	<a href="#">view</a>

# Field-Level Controls

### Add New Field ✕

You may add a new project field to this data collection instrument by completing the fields below and clicking the Save button at the bottom. When you add a new field, it will be added to the form on this page. For an overview of the different field types available, you may view the [Field Types video \(4 min\)](#).

**Field Type:** Text Box (Short Text, Number, Date/Time, ...) ▾

**Field Label** [How to use Piping](#)

**Field Annotation** (optional) [Learn about Action Tags](#)

Explanatory notes - not displayed on any page [?](#)

**Variable Name** (utilized during data export)

Enable auto naming of variable based upon its Field Label?

ONLY letters, numbers, and underscores

**Validation?** (optional) --- None --- ▾

— or —

**Enable searching within a biomedical ontology** [?](#)

-- choose ontology to search -- ▾

**Required?\***  No  Yes

\* Prompt if field is blank

**Identifier?**  No  Yes

Does the field contain identifying information (e.g., name, SSN, address)?

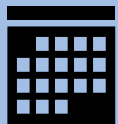
**Custom Alignment** Right / Vertical (RV) ▾

Align the position of the field on the page

**Field Note** (optional)

Small reminder text displayed underneath field

**Save** **Cancel**



REDCap 101  
Fall Session



# QUESTIONS or COMMENTS?

*Next: Building a Project*

# Before You Start: Decide What Type of Project Design is Needed

- Classic Database
- Longitudinal

# Before you Start: Decide How to Collect the Data

- Case Report Form/Data Collection Form
- Survey

**REDCap projects can have both  
FORMS and SURVEYS.**

# Overview: How a project is built

Home My Projects **Create New Project** Training Resources Help & FAQ Send-It Control Center

## Create a new REDCap Project

You may begin the creation of a new REDCap project on your own by completing the form below and clicking the Create Project button at the bottom.

**Project title:**   
Title to be displayed on project webpage

**Purpose of this project:**   
How will it be used?

**Assign project to a Project Folder?**

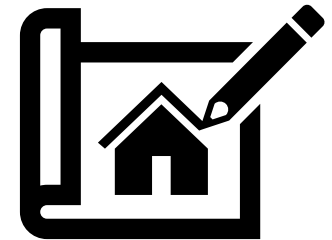
**Project notes (optional):**   
Comments describing the project's use or purpose for documentation purposes only.

**Start project from scratch or begin with a template?**

- Create an empty project (blank slate)
- Upload a REDCap project XML file (CDISC ODM format) [?](#)
- Use a template (choose one below)

**★ Choose a project template** (comes pre-filled with fields, forms/surveys, and other settings) [Add templates \(super users only\)](#)

select template	Template title (sorted by title)	Template description
<input type="radio"/>	Basic Demography	Contains a single data collection instrument to capture basic demographic information.
<input type="radio"/>	Classic Database	Contains six data entry forms, including forms for demography and baseline data, three monthly data forms, and concludes with a completion data form.
<input type="radio"/>	Human Cancer Tissue Biobank	Contains five data entry forms for collecting and tracking information for cancer tissue.
<input type="radio"/>	Longitudinal Database (1 arm)	Contains nine data entry forms (beginning with a demography form) for collecting data longitudinally over eight different events.
<input type="radio"/>	Longitudinal Database (2 arms)	Contains nine data entry forms (beginning with a demography form) for collecting data on two different arms (Drug A and Drug B) with each arm containing eight different events.



REDCap 101  
Fall Session

# Setting up a Project: Step-by-Step

Project Home Project Setup Other Functionality Project Revision History

Project status: Development Completed steps 0 of 7

**Complete!**  
Not complete?

**Main project settings**  
In progress  
I'm done

Enable Use longitudinal data collection with repeating forms? [?](#)  
Enable Use surveys in this project? [?](#) [VIDEO: How to create and manage a survey](#)  
Modify project title, purpose, etc.

**Design your data collection instruments**  
In progress  
I'm done

Add or edit fields on your data collection instruments. This may be done by either using the Online Designer (online method) or by uploading a Data Dictionary (offline method), in which you may use either method or both. Quick links: [Download PDF of all data collection instruments](#) OR [Download the current Data Dictionary](#)  
Go to [Online Designer](#) or [Data Dictionary](#)  
You may also browse for pre-built data collection instruments in the [REDCap Shared Library](#)  
Have you checked the [Check For Identifiers](#) page to ensure all identifier fields have been tagged?

**Enable optional modules and customizations**  
Optional  
I'm done

Enable Auto-numbering for records? [?](#)  
Enable Scheduling module (longitudinal only)? [?](#)  
Enable Randomization module? [?](#)  
Enable Designate an email field to use for invitations to survey participants? [?](#)  
Additional customizations

**Set up project bookmarks (optional)**  
Optional  
I'm done

You may create custom bookmarks to webpages that exist inside or outside of REDCap. These bookmarks will be seen as links on the left-hand project menu and can be accessed at any time by users who are given privileges to do so. Every project bookmark has custom settings that allow one to control its appearance and behavior.  
Go to [Add or edit bookmarks](#)

**User Rights and Permissions**  
Optional  
I'm done

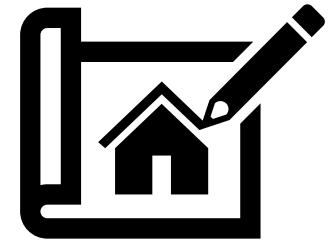
You may grant other users access to this project or edit the user privileges of current users on this project by navigating to the User Rights page. Additionally, if you wish to limit user access to certain records/responses for this project, you may want to use Data Access Groups, in which only users within a given Data Access Group can access records created by users within that group.  
Go to [User Rights](#) or [Data Access Groups](#)

**Test your project thoroughly**  
Not started  
I'm done

It is important to test the essential components of your project before moving it into production. Try creating a few test records and entering some data for each to ensure that your data collection instruments look and behave how you expect, especially branching logic and calculations. Then review your test data by creating reports and exporting your data to view in Excel or a statistical analysis package. If you have surveys, complete the surveys as if you were a participant by using the Public Survey Link or Participant List by sending a survey invitation to yourself. If other project modules will be used regularly, test them out a bit too. The best way to test your project is to use it as if you were entering real production data, and it is always helpful to have colleagues (especially team members) take a look at your project to get a fresh set of eyes looking at it.

**Move your project to production status**  
Not started

Move the project to production status so that real data may be collected. Once in production, you will not be able to edit the project fields in real time anymore. However, you can make edits in Draft Mode, which will then need to be approved by a REDCap administrator before taking effect.  
Go to [Move project to production](#)



# Example of a Build: Field Bank

Add Field

Add Matrix of Fields

Import from Field Bank

## Import from Field Bank

Using the Field Bank, search for fields in various catalogs below by selecting a catalog and entering specific keyword. When reviewing the resultsup of your search, click the "Add Field" button for the field to add that field to the current data collection instrument.

Select a catalog to search: NIH/NLM Catalog U.S. National Library of Medicine

race

61 fields found for NIH/NLM Catalog → All Classifications - Keyword: race

1 - 20 of 61

### Race OMB.1997

Choose alternative field label ?

Race OMB.1997

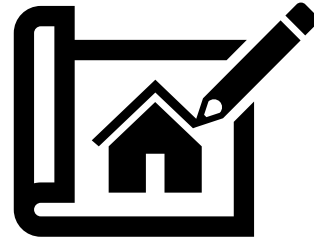
- Native Hawaiian or Other Pacific Islander
- American Indian or Alaska Native
- Asian
- Black or African American
- White

Classification: NLM

Description: The race of a person based on the Office of Management and Budget (OMB), Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity (Oct. 30, 1997).

+ Add Field

- American Indian or Alaska Native
- Asian



# Example of a Build: Creating Fields

## Add New Field ✕

You may add a new project field to this data collection instrument by completing the fields below and clicking the Save button at the bottom. When you add a new field, it will be added to the form on this page. For an overview of the different field types available, you may view the [Field Types video \(4 min\)](#).

Field Type: Text Box (Short Text, Number, Date/Time, ...) ▼

Field Label [How to use Piping](#)

Field Annotation (optional) [Learn about Action Tags](#)

Explanatory notes - not displayed on any page ?

Variable Name (utilized during data export)

Enable auto naming of variable based upon its Field Label?

ONLY letters, numbers, and underscores

Validation? (optional) ---- None ---- ▼

— or —

Enable searching within a biomedical ontology ?

-- choose ontology to search -- ▼

Required?\*  No  Yes

\* Prompt if field is blank

Identifier?  No  Yes

Does the field contain identifying information (e.g., name, SSN, address)?

Custom Alignment Right / Vertical (RV) ▼

Align the position of the field on the page

Field Note (optional)

Small reminder text displayed underneath field

Save Cancel



# Example of a Build: Uploading Metadata

## Data Dictionary

- The Data Dictionary is a formatted spreadsheet in CSV (comma separated format) containing the metadata used to construct data collection instruments and fields.

This is recommended for advanced users.

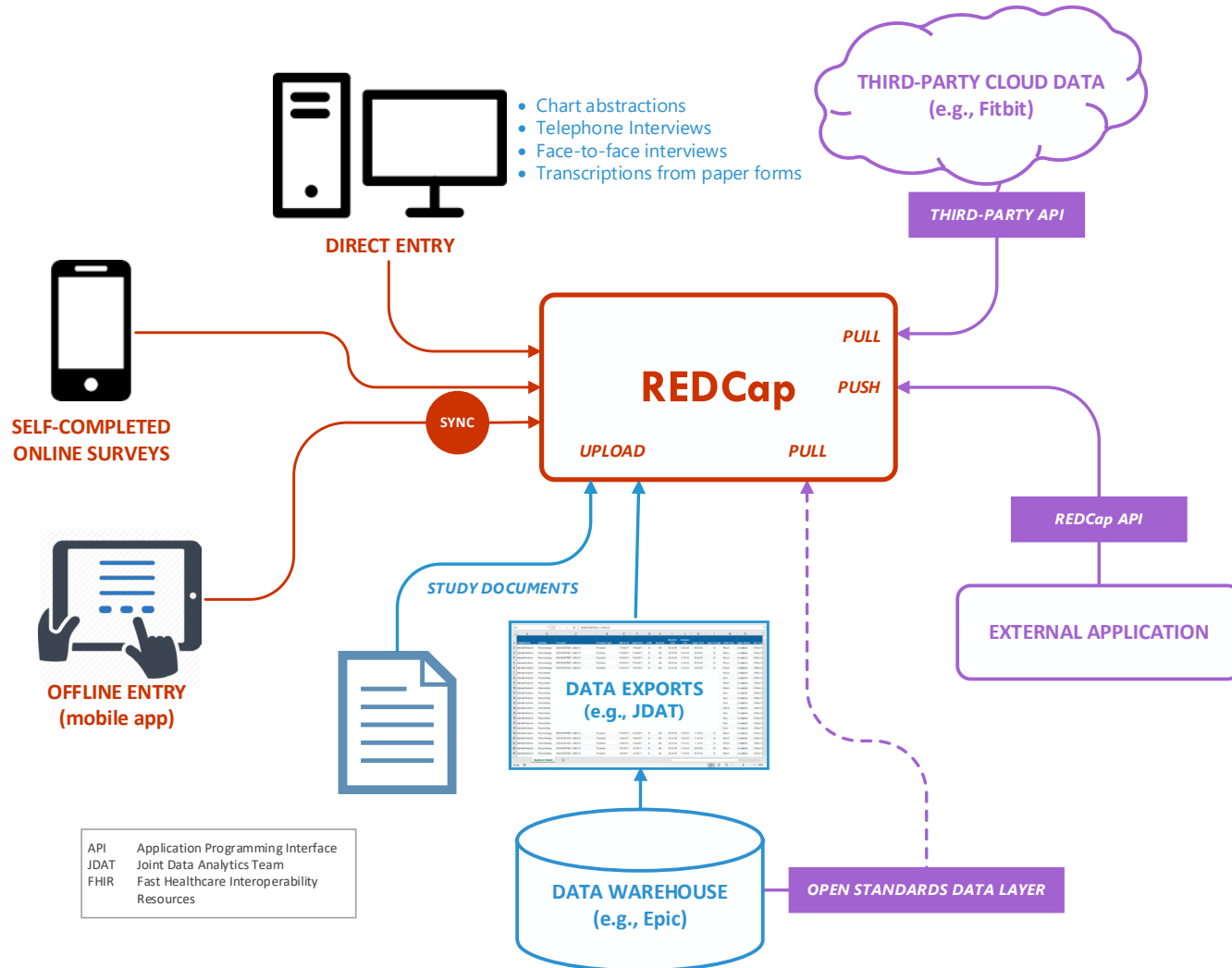
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Variable /	Form Nam	Section He	Field Type	Field Label	Choices, C	Field Note	Text Valid:	Text Valid:	Text Valid:	Identifier?	Branching	Required F	Custom Ali	Question M	Matrix Grc	Matrix Rar	Field Annotation	
2	id	screening_enrollment		text	Participant ID code			number											
3	screendate	screening_enrollment		text	Date of screening			date_mdy					y						
4	version_sc	screening_enrollment		text	Version								y						
5	intid_scr	screening_enrollment		text	Interviewer ID								y						
6	participate	screening_enrollment		dropdown	Have you	1, Yes   2, No   8, Don't know						[version_s	y						
7	name_pric	screening_enrollment		dropdown	Is the subj	1, Yes - U19 - Eligible for IMAGIN   2, Yes - IMAGIN - Eligible for U						[version_s	y						
8	name_pric	screening_enrollment		dropdown	Is the subj	1, Yes - NOT Eligible   2, No - Eligible						[version_s	y						
9	age	screening_enrollment		text	How old were you on your last b	number			16	100			y						



# QUESTIONS or COMMENTS?

*Next: Collecting Data*

# Collecting Data: How Data is Captured



# Example of Case Report Form Data Collection Form

Data Entry Form – completed  
by study staff

The screenshot displays the REDCap interface for a data entry form. The left sidebar contains navigation options: 'My Projects', 'Project Home or Project Setup', 'REDCap Messenger', 'Data Collection', 'Survey Distribution Tools', 'Record Status Dashboard', 'Add / Edit Records', 'Study ID Test1 (1, Test)', 'Data Collection Instruments' (with 'Demographics' selected), and 'Applications'. The main content area shows the 'Demographics' instrument being edited for 'Study ID Test1'. The form includes fields for 'Study ID', 'Contact Information' (First Name, Last Name, Phone number, E-mail), 'Date of birth', 'Ethnicity', 'Race', and 'Has the patient given birth before?'. A 'VIDEO: Basic data entry' link is visible in the top right. The bottom right corner features 'Save & Exit Form', 'Save & Stay', and 'Cancel' buttons.

Logged in as [ ] Log out

My Projects  
Project Home or Project Setup  
REDCap Messenger  
Project status: Development

Data Collection Edit instruments

Survey Distribution Tools  
- Get a public survey link or build a participant list for inviting respondents

Record Status Dashboard  
- View data collection status of all records

Add / Edit Records  
- Create new records or edit/view existing ones

Study ID Test1 (1, Test) Select other record

Data Collection Instruments:  
Demographics  
Baseline Data  
Pain Management Survey - PRE  
Intervention Data  
Pain Management Survey - POST  
Study Completion

Applications  
Calendar  
Data Exports, Reports, and Stats  
Data Import Tool

Actions: Modify instrument Download PDF of instrument(s) VIDEO: Basic data entry

Save & Exit Form  
Save & Stay  
Cancel

**Demographics**

Editing existing Study ID Test1 (1, Test)

Study ID Test1  
To rename the record, see the record action drop-down at top of the Record Home Page.

**Contact Information**

First Name (H) [ ]

Last Name (H) [ ]

Phone number (H) [ ]  
Include Area Code

E-mail (H) [ ]

Date of birth (H) [ ] [31] Y-M-D

Ethnicity (H)  Hispanic or Latino  NOT Hispanic or Latino  Unknown / Not Reported reset

Race (H) [ ] reset

Has the patient given birth before? (H)  Yes  No reset

# Example of Data Collection Form: Surveys

Survey –  
completed  
by a  
participant

## Pain Management Survey - PRE

Resize font:  
+ | -

Please complete the survey below.

Thank you!

Are you in pain today?

- Yes  
 No

reset

What do you think about these medication features?

	1 Not important to me	2	3 Neutral	4	5 Very important to me
Pill size	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pill form (tablet, capsule, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How soon it takes effect	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How long the effect lasts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How many times in a day I have to take it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Price	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

reset

reset

reset

reset

reset

reset

reset

How has pain affected your life?

Expand

Submit

Save & Return Later

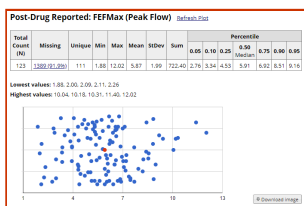
# QUESTIONS or COMMENTS?

*Next: Data Management Tools*

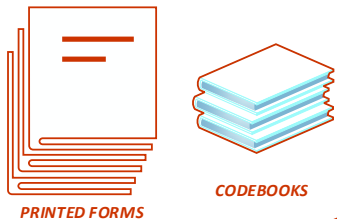
# Advanced Overview: Data Management

Event Name	Was the Life Event Functionally Impairing?	LLDFT disability score	LLDFT disability score	LLDFT function score	LLDFT function score	Interviewer	Interviewer
Baseline	Yes (1)	87.08	3.88	53.21	3.09	09-25-2013	David Nink (P128)
Baseline	Yes (1)	49.95	3.31	95.14	3.11	11-05-2013	Teresa Rodriguez (P128)
Baseline	Yes (1)	32.07	3.48	59.17	3.00	11-03-2013	Carol Gordon (P128)
Baseline	Yes (1)	47.73	3.31	45.97	3.15	10-20-2013	Sabina Rubess (P128)
Baseline	Yes (1)	58.00	3.99	45.96	3.08	10-20-2013	Sabina Rubess (P128)
Baseline	Yes (1)	47.81	3.30	51.47	3.03	10-12-2013	David Nink (P128)

USER-DEFINED REPORTS



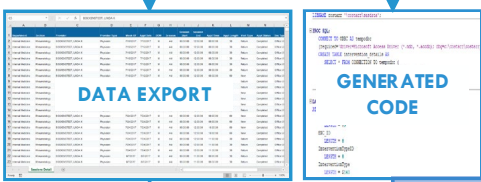
STATISTICS and DATA VISUALIZATIONS



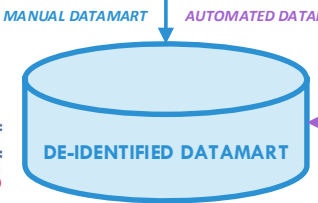
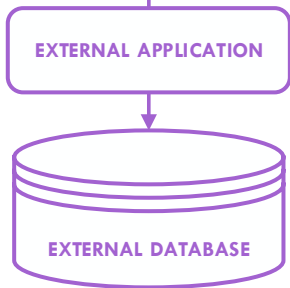
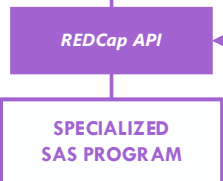
API Application Programming Interface  
 CDISC Clinical Data Interchange Standards Consortium  
 ODM Operational Data Model  
 DBMS Database Management System  
 DATAMART A read-only, deidentified snapshot of the database, in a format compatible with statistical software. Used for conduct-of-study reporting, analyses and quality control.



- OFFLINE STORAGE
- DATA SHARING
- TRANSFER TO OTHER INSTITUTION
- TRANSFER TO OTHER DBMS



Reports and Data Import/Export Spring Session



# Data Management Tools: Reporting

Reports can be used to facilitate data management, interim results and analysis

Logged in as rc\_fund | Log out

My Projects  
REDCap Messenger

Project Home and Design +  
Data Collection +  
Applications -

- Alerts & Notifications
- Calendar
- Data Exports, Reports, and Stats
- Data Import Tool
- Data Comparison Tool
- Logging
- File Repository
- User Rights and DAGs
- Data Quality
- External Modules

Reports Search Organize Edit -

- 1) All active participants
- 2) Only >200 cm height
- 3) Female participants

Help & Information -

- Help & FAQ
- Video Tutorials
- Suggest a New Feature

## Data Exports, Reports, and Stats

[VIDEO: How to use Data Exports, Reports, and Stats](#)

+ Create New Report My Reports & Exports Other Export Options

This module allows you to easily view reports of your data, inspect plots and descriptive statistics of your data, as well as export your data to Microsoft Excel, SAS, Stata, R, or SPSS for analysis (if you have such privileges). If you wish to export your \*entire\* data set or view it as a report, then Report A is the best and quickest way. However, if you want to view or export data from only specific instruments (or events) on the fly, then Report B is the best choice. You may also create your own custom reports below (if you have such privileges) in which you can filter the report to specific fields, records, or events using a vast array of filtering tools to make sure you get the exact data you want. Once you have created a report, you may view it as a webpage, export it out of REDCap in a specified format (Excel, SAS, Stata, SPSS, R), or view the plots and descriptive statistics for that report.

### My Reports & Exports

	Report name	View/Export Options	Management Options
A	All data (all records and fields)	<a href="#">View Report</a> <a href="#">Export Data</a> <a href="#">Stats &amp; Charts</a>	
B	Selected instruments (all records)	<a href="#">Make custom selections</a>	
1	All active participants	<a href="#">View Report</a> <a href="#">Export Data</a> <a href="#">Stats &amp; Charts</a>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>
2	Only >200 cm height	<a href="#">View Report</a> <a href="#">Export Data</a> <a href="#">Stats &amp; Charts</a>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>
3	Female participants	<a href="#">View Report</a> <a href="#">Export Data</a> <a href="#">Stats &amp; Charts</a>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>
		<a href="#">+ Create New Report</a>	

# Data Management Tools: Statistics and Graphs/Charts

**Gender** [Refresh Plot](#) | [View as Bar Chart](#) ▼

Total Count (N)	Missing	Unique
30	0 (0.0%)	2

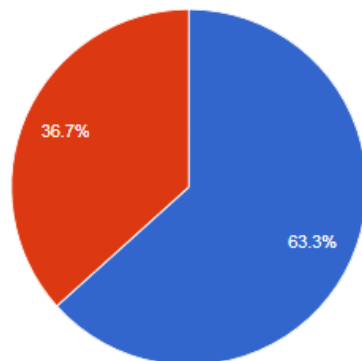
Counts/frequency: **Male** (19, 63.3%), **Female** (11, 36.7%), **Other** (0, 0.0%)



**Gender** [Refresh Plot](#) | [View as Pie Chart](#) ▼

Total Count (N)	Missing	Unique
30	0 (0.0%)	2

Counts/frequency: **Male** (19, 63.3%), **Female** (11, 36.7%), **Other** (0, 0.0%)



**height < 150**

DISPLAY OPTIONS

Optional: Select a record to overlay onto the plots below

-- select record -- ▼

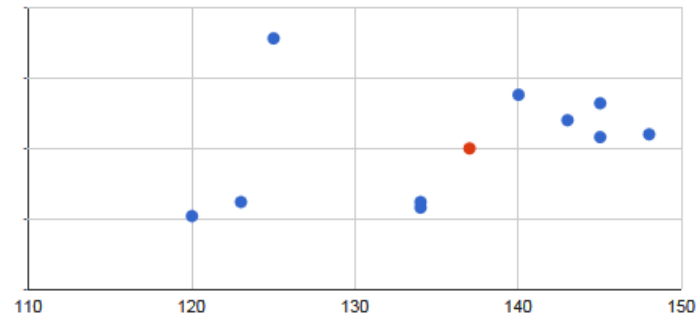
Viewing options: [Show plots & stats](#) [Show plots only](#) [Show stats only](#)

**Height** [Refresh Plot](#)

Total Count (N)	Missing	Unique	Min	Max	Mean	StDev	Sum	Percentile						
								0.05	0.10	0.25	0.50 Median	0.75	0.90	0.95
10	0 (0.0%)	8	120.00	148.00	135.70	10.13	1,357.00	121.35	122.70	127.25	137.00	144.50	145.30	146.65

Lowest values: 120, 123, 125, 134, 134

Highest values: 140, 143, 145, 145, 148












# Data Management Tools: Exports

Exporting "Test" ✕

Select your export settings, which includes the export format (Excel/CSV, SAS, SPSS, R, Stata) and if you wish to perform de-identification on the data set.

**Choose export format**

-  CSV / Microsoft Excel (raw data)
-  CSV / Microsoft Excel (labels)
-  SPSS Statistical Software
-  SAS Statistical Software
-  R Statistical Software
-  Stata Statistical Software
-  CDISC ODM (XML)

**De-identification options** (optional)

The options below allow you to limit the amount of sensitive information that you are exporting out of the project. Check all that apply.

**Known Identifiers:**

- Remove all tagged Identifier fields (tagged in Data Dictionary)
- Hash the Record ID field (converts record name to an unrecognizable value)

**Free-form text:**

- Remove unvalidated Text fields (i.e. Text fields other than dates, numbers, etc.)
- Remove Notes/Essay box fields

**Date and datetime fields:**

- Remove all date and datetime fields
- OR —
- Shift all dates by value between 0 and 364 days (shifted amount determined by algorithm for each record) [What is date shifting?](#)

[Deselect all options](#)

**Export Data** Cancel

# Data Management Tools: Data Dictionary Codebook

- The Data Dictionary Codebook is a ‘human’ readable, read-only version of the project data dictionary.

Print page

## Data Dictionary Codebook

#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)														
Instrument: <b>Demographics</b> (demographics)																	
1	subjid	Subject ID	text (integer, Min: 8000, Max: 8999), Required														
2	demo_date	Date Completed Demographics Form	text (date_mdy), Required														
3	demo_init	Staff Initial	text, Required														
4	age	Section Header: <i>Demographics Form</i> Age	text (integer, Min: 40), Required														
5	sex	Gender	radio, Required <table border="1"> <tr><td>1</td><td>Male</td></tr> <tr><td>0</td><td>Female</td></tr> </table>	1	Male	0	Female										
1	Male																
0	Female																
6	ethnic	Ethnicity	radio, Required <table border="1"> <tr><td>1</td><td>Hispanic or Latino</td></tr> <tr><td>2</td><td>Not Hispanic or Latino</td></tr> <tr><td>3</td><td>Unknown</td></tr> <tr><td>4</td><td>Declined to answer</td></tr> </table>	1	Hispanic or Latino	2	Not Hispanic or Latino	3	Unknown	4	Declined to answer						
1	Hispanic or Latino																
2	Not Hispanic or Latino																
3	Unknown																
4	Declined to answer																
7	race	Race	radio, Required <table border="1"> <tr><td>1</td><td>American Indian or Alaskan Native</td></tr> <tr><td>2</td><td>Asian</td></tr> <tr><td>3</td><td>Black or African American</td></tr> <tr><td>4</td><td>Native Hawaiian or Pacific Islander</td></tr> <tr><td>5</td><td>White</td></tr> <tr><td>6</td><td>Mixed race</td></tr> <tr><td>7</td><td>Unknown</td></tr> </table>	1	American Indian or Alaskan Native	2	Asian	3	Black or African American	4	Native Hawaiian or Pacific Islander	5	White	6	Mixed race	7	Unknown
1	American Indian or Alaskan Native																
2	Asian																
3	Black or African American																
4	Native Hawaiian or Pacific Islander																
5	White																
6	Mixed race																
7	Unknown																

# QUESTIONS or COMMENTS?

*Next: Resources to help you get started*

# REDCap Support



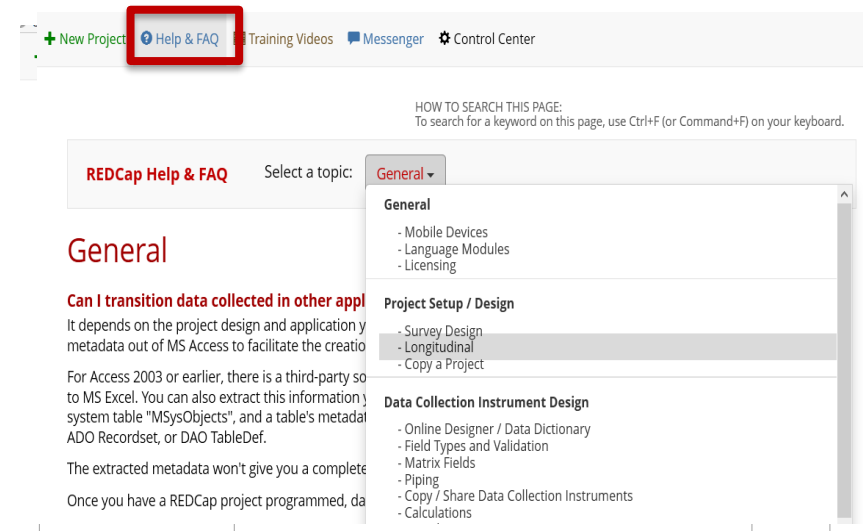
+

Training Sessions  
Consultations

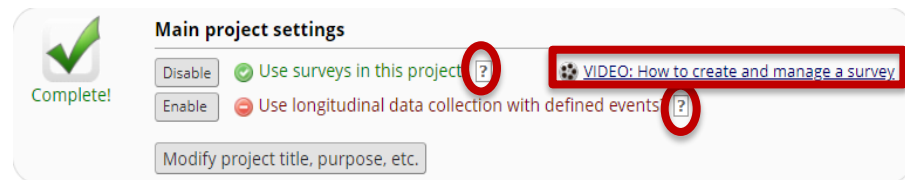
# REDCap's Do-It-Yourself Resources

<https://projectredcap.org/resources/videos/>

25 training video tutorials  
Help & FAQ



Embedded text and videos throughout.  
For example, in the online designer:



# Yale's Do-It-Yourself Resources

<https://portal.redcap.yale.edu/resources/>



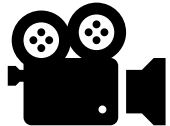
## FAQ Library: Step-by-step instructions








*How do I build an eConsent?*

*[Copy & Paste or Type Content]*

There are two ways to build an electronic consent document (eConsent) using REDCap. These instructions explain how to copy and paste (or type) content into REDCap. To build an eConsent by scanning an image of the consent form, please refer to [FAQ: Build an eConsent \[Scanned Image\]](#).



## Other Videos & Libraries

1		REDCap Advanced Tutorial 2: Repeating forms UCD REDCap 12:34
2		REDCap Advanced Tutorial 2: Randomization UCD REDCap 8:48
3		REDCap Advanced Tutorial 2: Survey Login UCD REDCap 9:14
4		REDCap Advanced Tutorial 2: Smart variables UCD REDCap 14:10
5		REDCap Advanced Tutorial 2: PDF and e consent UCD REDCap 8:51

# Upcoming Spring Trainings

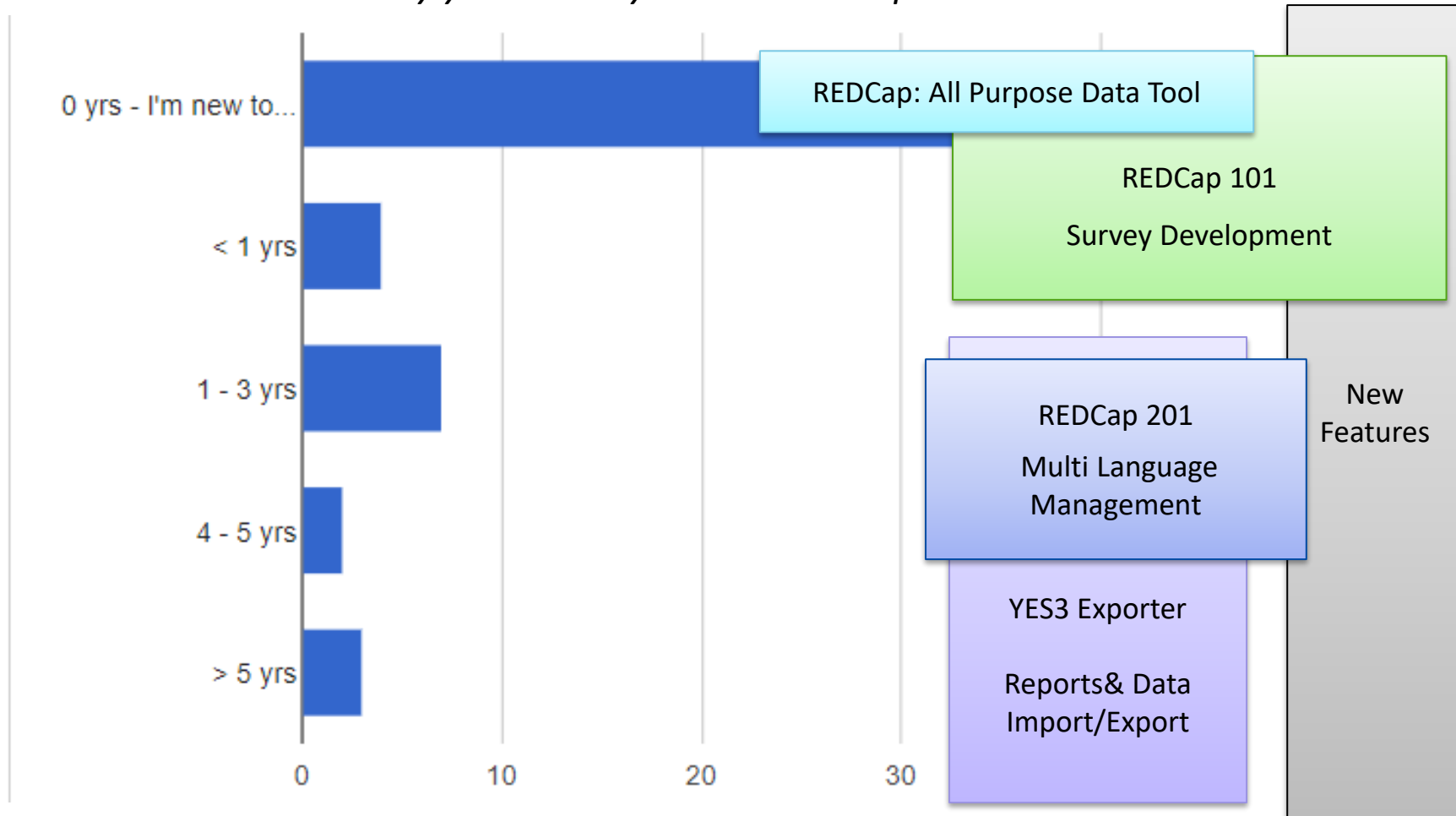
- **REDCap 201**
- **Managing Data in REDCap: Reports, Import, Export**
- **Yale Study Support Suite (YES3): Exporter**

*Fall Training: REDCap 101, Survey Development, New Features, Multi Language Management*

# Trainings & Audience

<https://portal.redcap.yale.edu/resources/training>

*How many years have you used REDCap?*





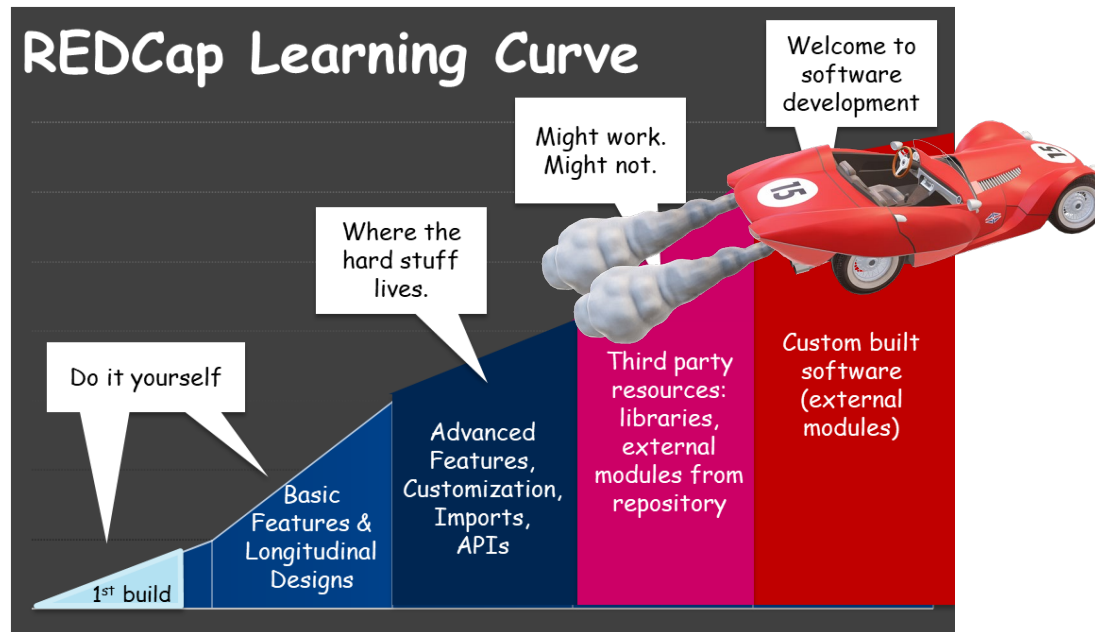
# Consultations and Services



QUESTIONS or COMMENTS?

# EXTRA CONTENT

*Next: Advanced Data Management Tools*



# Advanced Data Management Tools: External Modules (EMs)

Individual packages of software that extend REDCap's functionality.



## Repository of External Modules

The REDCap Repo is a centralized repository of curated External Modules that can be downloaded and installed in REDCap by a REDCap administrator. External Modules are add-on packages of software that can extend REDCap's current functionality, as well as provide customizations and enhancements for REDCap's existing behavior and appearance, either at the system level or project level. The modules provided here were created and submitted by software developers at various REDCap institutions around the world.

If you have created a module and wish to submit it to be listed in the REDCap Repo, please complete the [Module Submission Survey](#). Updated versions must also be submitted via the survey. To learn more about the REDCap Repo module review process, you may download the [Module Review Guidelines \(PDF\)](#).

You may search below for available modules. If you got to this site directly, you will be able to view information about each module, but you will not be able to download modules from this page unless you arrived here from the REDCap application and are a REDCap administrator. If you have questions or are experiencing issues, please contact [redcap@vumc.org](mailto:redcap@vumc.org).

Disclaimer: The modules listed in the REDCap Repo have gone through a process of testing, validation, and curation by the Vanderbilt REDCap Team with help from trusted individuals in the REDCap Consortium. It should not be assumed that all modules are bug-free or perfect, so please be aware that the entire risk as to the quality and performance of the module as it is used in your REDCap installation is borne by the REDCap administrators who download and install the modules.

Show  entries

Module title and description	First Submitted	Most Recent Update	Downloads (installs only - Excludes updates)	
<b>YES3 Exporter</b> ( <i>yes3_exporter_v1.0.2</i> ) <a href="#">View on GitHub</a> <a href="#">View Stats</a> <i>Description:</i> Specialized data export module for datamart integrations and data sharing <i>Author:</i> <a href="#">Peter Charpentier</a> (0)	2022-08-24	2022-08-24	5	You must be a REDCap administrator logged in to REDCap to download modules.
<b>Yale Second Language extension</b> ( <i>ydclib_second_language_v1.1.2</i> ) <a href="#">View on GitHub</a> <a href="#">View Stats</a> <i>Description:</i> Basic multilanguage support for REDCap forms <i>Author:</i> <a href="#">Peter Charpentier</a> (Yale University)	2020-10-06	2021-10-21	82	You must be a REDCap administrator logged in to REDCap to download modules.

# External Modules (EMs)

- Commonly used external modules
  - Form Render Skip Logic
    - Show and hide forms based on branching logics
  - Image Map
    - User can click on image regions to select field options, e.g. pain map
  - Cross-project piping
    - Pipe data from one project to another project
  - Auto Complete Form Status Based on Required Fields

*\*Contact us for suitability  
of external modules for your project*

# YES3 External Modules

HOME > NEWS > REDCAP@YALE TEAM SECURES NIH FUNDING TO SUPPORT REDCAP EXTERNAL MODULES

## REDCap@Yale team secures NIH funding to support REDCap External Modules



October 5, 2021

Coming Soon!

**Powerful REDCap software tools to support your research.**

We are happy to announce that the REDCap@Yale team has secured funding through a [NIH NOSI award](#) along with two Development Projects under the Yale OAIC Pepper Center to make components of the Yale Study Support Suite (YES3), a Dashboard EM and a Study Portal EM, widely available.

As part of our 2021-2022 NIH award for the Yale Study Support Suite (YES3), we are sponsoring two [internships](#).

Click the link below for more information.

**External link:** <https://medicine.yale.edu/news-article/yale-program-on-a>



# First Release: The YES3 Exporter

AVAILABLE NOW

The screenshot shows the 'YES3 Exporter Main' interface. The top section is 'EXPORT SETTINGS' for 'dcare outcomes'. It includes fields for 'Export name', 'Export layout', and 'Options for selecting records to export'. Below that are 'Options for data compliance' and 'Options for conditioning exported values'. A 'Timestamp' is shown at the bottom left. The middle section is 'FORMS AND FIELDS TO EXPORT (click to edit)', displaying a list of 11 items with checkboxes and icons. At the bottom, there are controls for 'ADD SINGLE FORM OR FIELD' and 'BULK ADD'.

## FEATURES

- A "horizontal" layout for longitudinal studies.
- Optimized for datamart integrations.
- Speed - good performance on large exports.
- Can write directly to host file system
- Daily activity summary emails
- Audit logs

The screenshot shows the 'YES3 Exporter Logs' interface. It features a table with columns for 'log id', 'timestamp', and 'user'. A detailed view of a log record is shown on the right, including fields like 'Log ID', 'Project ID', 'Export Name', 'Export UUID', 'Time Stamp', 'User', 'DAG', 'Message', 'Destination', 'Log Entry Type', 'Export filename', 'Data Dictionary filename', 'Bytes written', 'Cells written', 'Rows', 'Columns', and 'Export specification'. A '23 log records' indicator is visible in the top right corner.



YES3 Exporter Training  
Spring Session

## QUESTIONS from the audience

*How do users choose between REDCap and Qualtrics?*

# REDCap versus Qualtrics

	Qualtrics	REDCap
Expense/Cost	None	None
Learning Curve	Easy	Moderate
Classic or Longitudinal Design	Classic	Both
Randomization	Yes (limited)	Yes
Instrument type (survey, direct data entry)	Survey	Both
Editable look-and-feel (graphic customization)	Yes	Yes (limited)
Data Quality Checks	Yes	Yes
File uploads- scans, images, documents	Yes	Yes
API integration	Yes	Yes
Data Dictionary format	None (.qsf/JSON file)	Excel/CSV
Ability to import datasets	No	Yes
Automated survey invitations and email alerts	Yes	Yes
Data Export Types	SPSS, CSV, TSV, Excel, XML	SPSS, Stata, R, SAS, Excel, CSV, CDISC-ODM



# REDCap Advantages

## Features not available in Qualtrics

- Export to SAS, STATA, R, SPSS, .csv
- Data quality rules
- Longitudinal or repeated measures
- Audit trails in logins
- Automated Survey Invitation and email alert options
- Ability to use a survey as both a survey and a case report form
- eConsent frameworks in Survey Settings

Source: [https://ccts.uic.edu/wp-content/uploads/sites/569/2021/03/Qualtrics-to-REDCap\\_v2021.pdf](https://ccts.uic.edu/wp-content/uploads/sites/569/2021/03/Qualtrics-to-REDCap_v2021.pdf)

# Qualtrics Advantages: Features not available in REDCap

- Export to .tsv
- Flexibility to graphically customize survey forms, web browser format (e.g., page at a time), and mobile device format (e.g., one question at a time)
- Nice library of pre-built surveys, blocks, and questions
- Survey flow features not available in REDCap: *Question Randomizer, Web Service, authenticator, embedded data, table of contents*
- Additional survey question types: *Side by Side, Constant Sum, Hot Spot, Drill down, Gap Analysis, Timing, Pick Group Rank, Heat Map, Graphic Slider, record browser information*
  - Some of these additional field types may be supported by REDCap external modules
- Additional survey applications: Survey Scoring

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