



# REDCap: Research Electronic Data Capture

All Purpose Data Tool

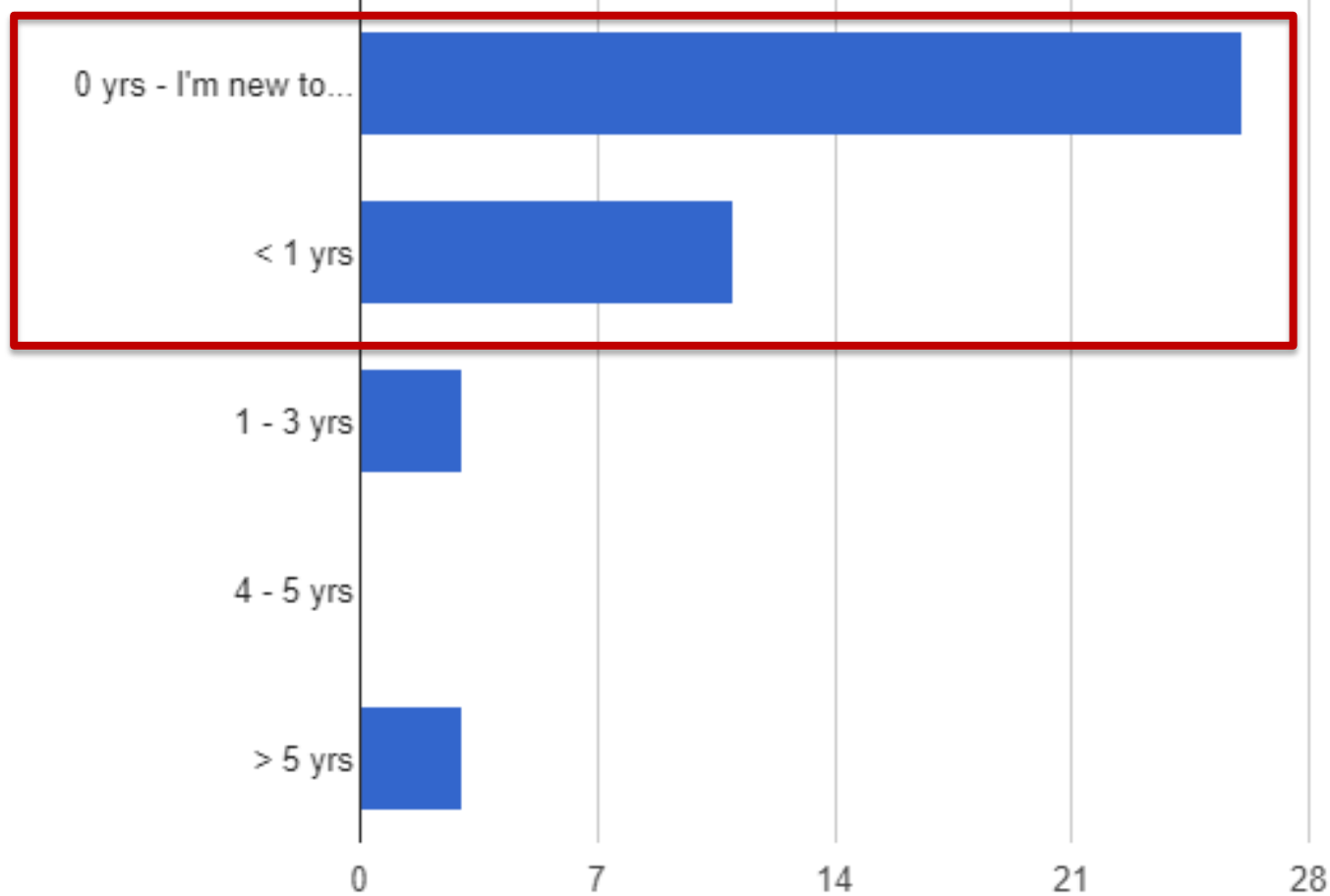
*Mary Geda*

*Sui Tsang*

*January 24, 2024*

# Today's Audience

*How many years have you used REDCap?*

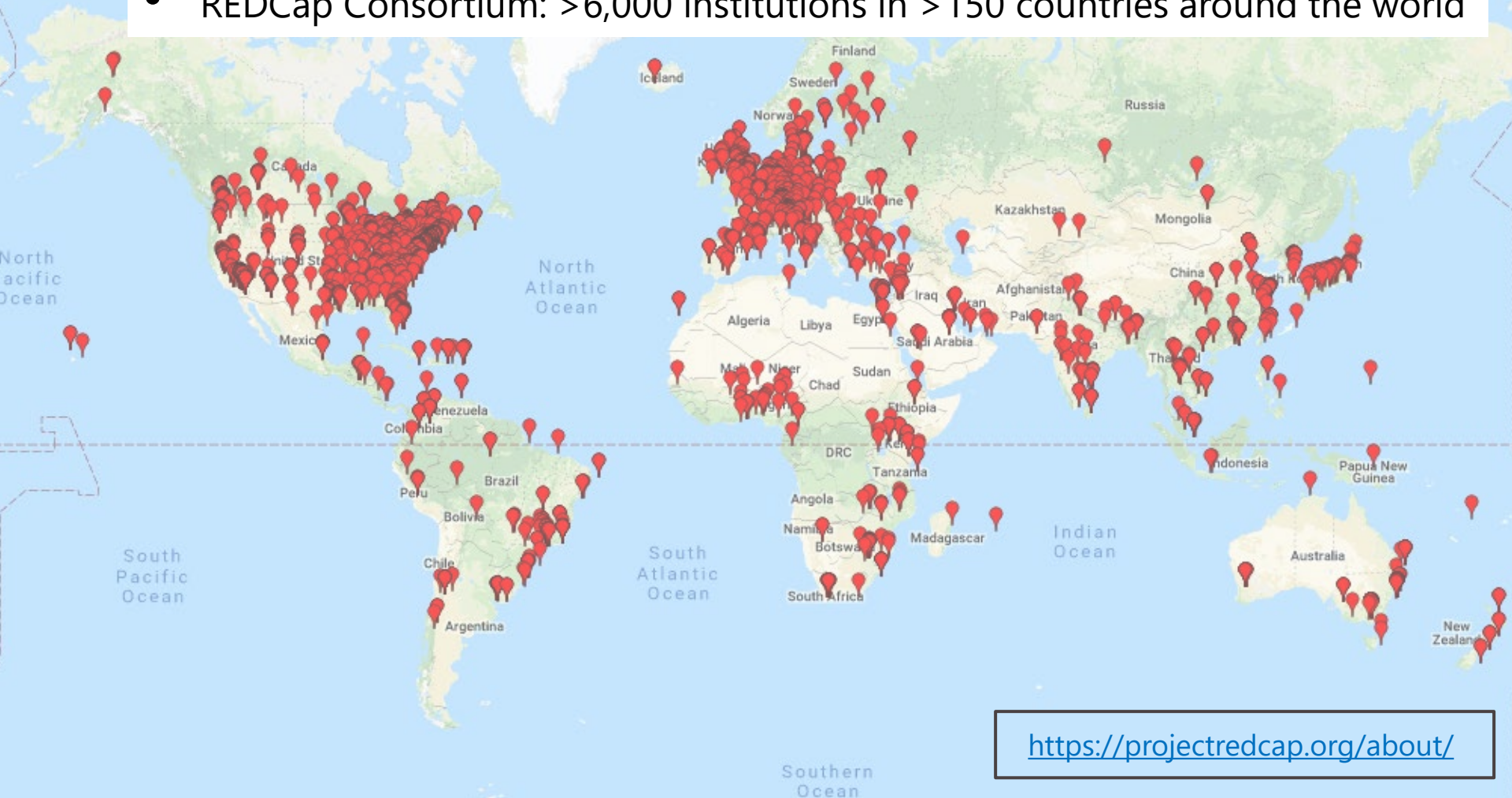


# Introduction and Learning Objectives

- 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

- *Looking into moving an Access DB to Redcap and need all the info I can*
- *No, just trying to learn more. We are looking at converting our current database to Redcap*
- *Understanding what it is and how it benefits research and data collection*
- *I am looking to use Red Cap for a new study. Looking to understand the utilization of the resource.*

- 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 Dashboards

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 |
|---------------------|-----------|----------|--------|----------|-----|----------|------------|------|-----|-----|----------|-------|---------------|------|-----------|--------|
| <a href="#">9</a>   | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">12</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">30</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">37</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">46</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">54</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">63</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">70</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">86</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">87</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">91</a>  | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">114</a> | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">122</a> | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">123</a> | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">134</a> | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">140</a> | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">151</a> | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |
| <a href="#">155</a> | ●         | ●        | ●      | ●        | ●   | ●        | ●          | ●    | ●   | ●   | ●        | ●     | ●             | ●    | ●         | ●      |

**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?  reset

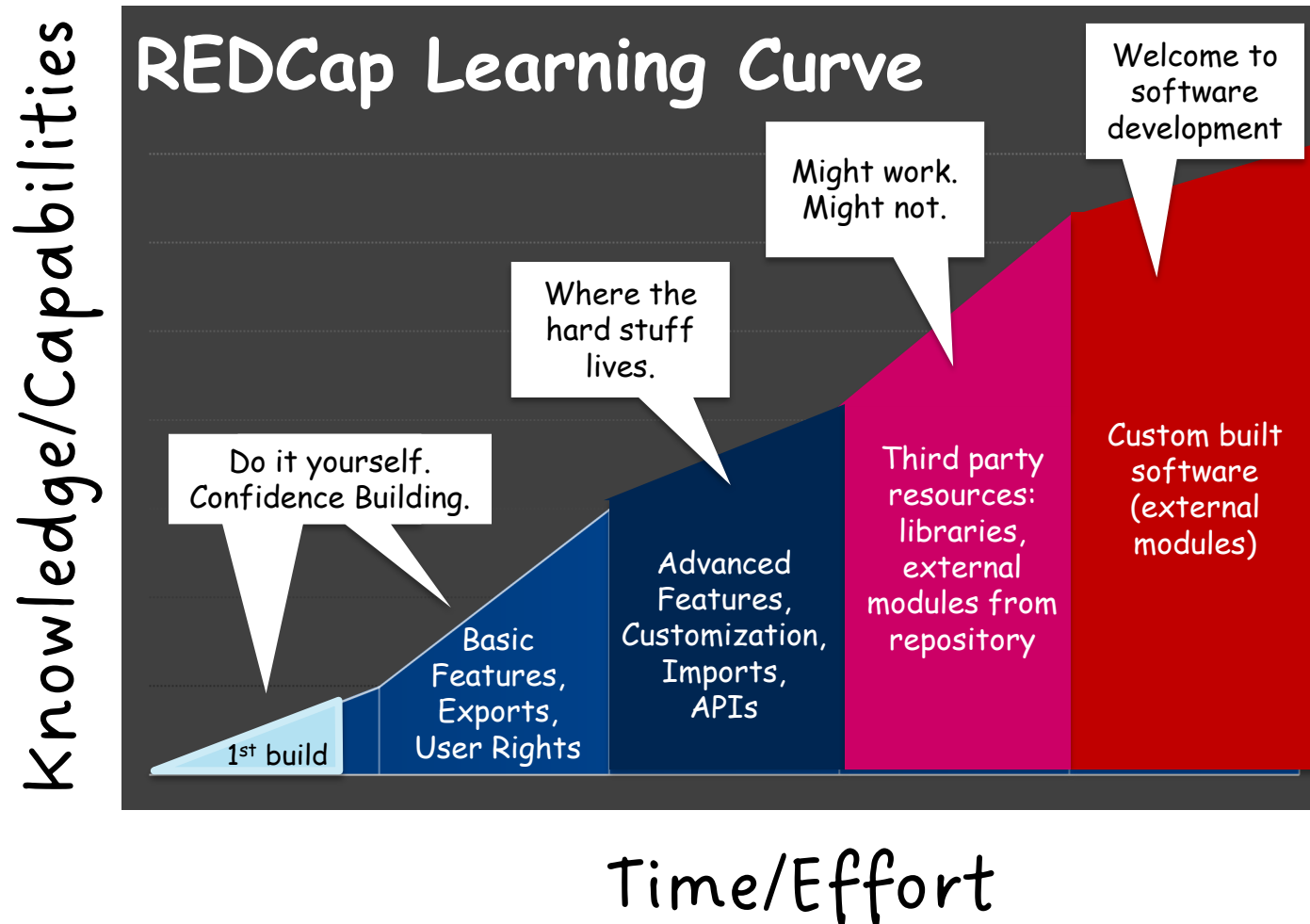
1c. Did you use aids or equipment? Did you need help from another person? (other rooms)  reset

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

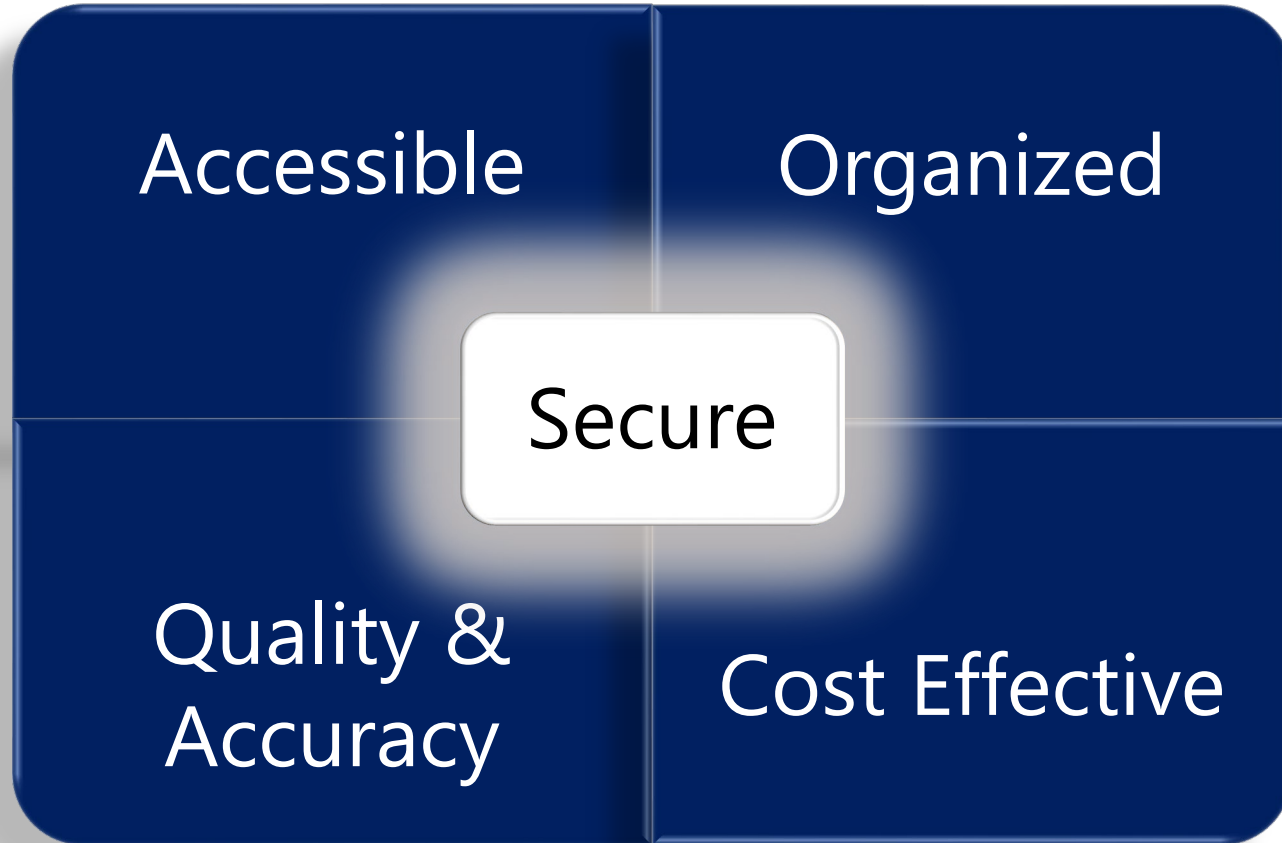
2b. How often get to areas outside your home?  reset

2c. Did you use aids or equipment? Did you need help from another person? (outside areas)  reset

# 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:

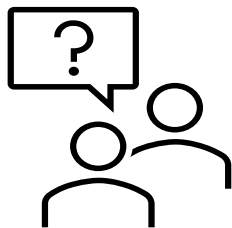
Password:

[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

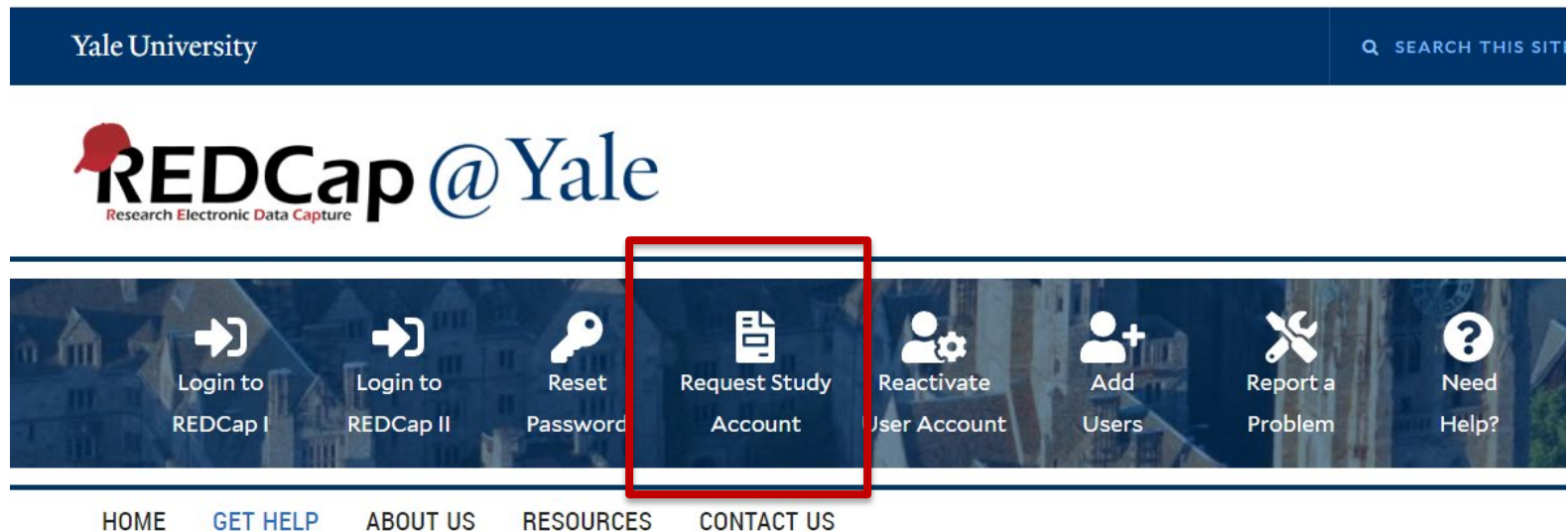
Yale  
NewHaven  
Health



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/>



The screenshot shows the top navigation bar of the REDCap @ Yale website. The header includes the Yale University logo and a search bar. Below the header is the REDCap @ Yale logo. The main navigation bar contains several buttons: 'Login to REDCap I', 'Login to REDCap II', 'Reset Password', 'Request Study Account' (highlighted with a red box), 'Reactivate User Account', 'Add Users', 'Report a Problem', and 'Need Help?'. Below the navigation bar are links for 'HOME', 'GET HELP', 'ABOUT US', 'RESOURCES', and 'CONTACT US'.

# 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**
- Project Settings & Management Tools
- 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): [All logging](#) [All pages using current filters](#) [Current page](#)

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  [Custom range](#) [Past Day](#) [Past Week](#) [Past Month](#) [Past Year](#) [No limit](#)

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',<br>fname = 'aaa',<br>lname = 'bbb',<br>participant_sign = '156712',<br>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',<br>fname = 'test',<br>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?**

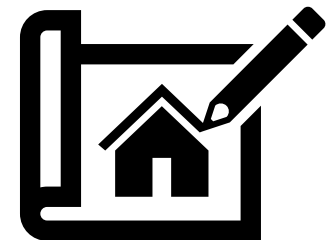
**Project notes (optional):**   
*Comments describing the project's use or purpose for documentation purposes only.*

**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

### Main project settings

In progress

Use longitudinal data collection with repeating forms? [?](#)  
  Use surveys in this project? [?](#) [VIDEO: How to create and manage a survey](#)

### Design your data collection instruments

In progress

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  or

You may also browse for pre-built data collection instruments in the

Have you checked the [Check For Identifiers](#) page to ensure all identifier fields have been tagged?

### Enable optional modules and customizations

Optional

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

### Set up project bookmarks (optional)

Optional

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

### User Rights and Permissions

Optional

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  or

### Test your project thoroughly

Not started

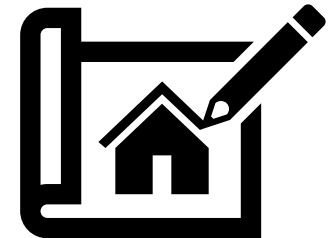
It is important to test the essential components of your project before moving it into production. Try creating a few test records and entering some data for each to ensure that your data collection instruments look and behave how you expect, especially branching logic and calculations. Then review your 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



# 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

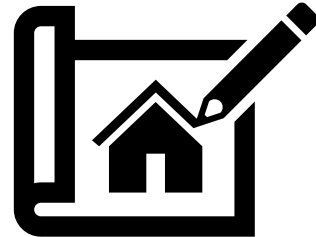
- Native Hawaiian or Other Pacific Islander
- American Indian or Alaska Native
- Asian
- Black or African American
- White

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 ✕

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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)?

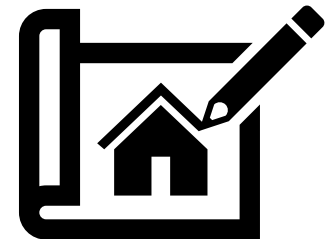
Custom Alignment Right / Vertical (RV) ▼

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.

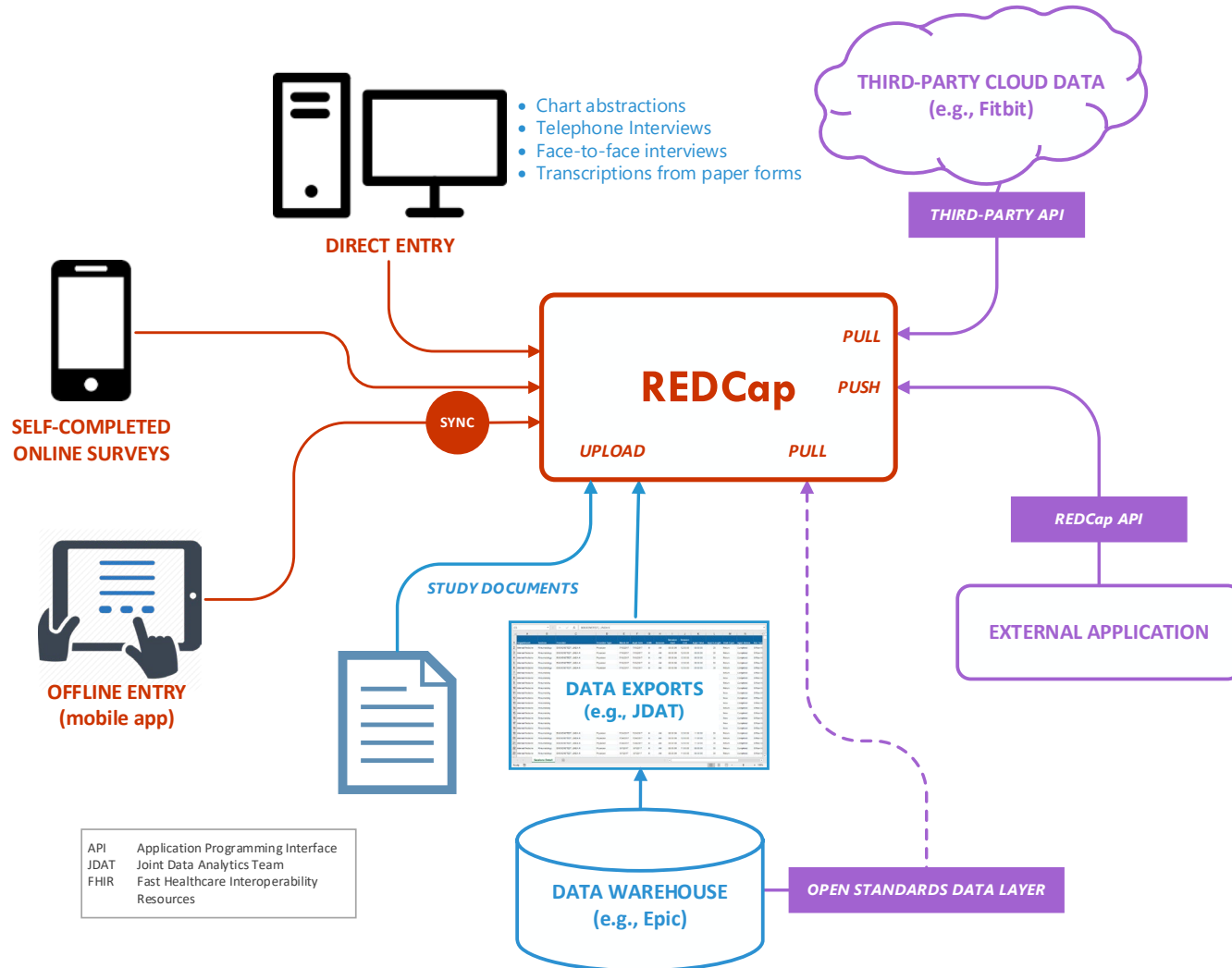
|   | A           | B                    | C          | D          | E                               | F   | G          | H           | I           | J           | K           | L          | M          | N          | O          | P          | Q          | R                | S |
|---|-------------|----------------------|------------|------------|---------------------------------|---|------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------------|---|
| 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

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

Last Name

Phone number   
Include Area Code

E-mail

Date of birth    Y-M-D

Ethnicity  Hispanic or Latino  
 NOT Hispanic or Latino  
 Unknown / Not Reported [reset](#)

Race

Has the patient given birth before?  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<br>important to<br>me | 2                     | 3 Neutral             | 4                     | 5 Very<br>important to<br>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<br>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

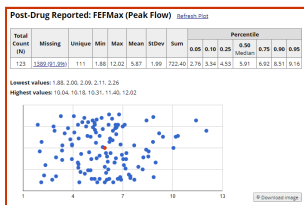
# QUESTIONS or COMMENTS?

*Next: Data Management Tools*

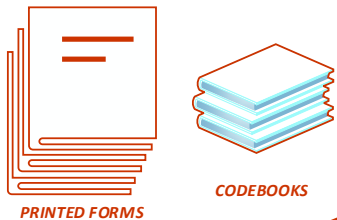
# Advanced Overview: Data Management

| Event Name | Was the Life Event Functionally Impairing? | LLDPT disability score | LLDPT disability score | LLDPT function score | LLDPT function score | Interviewer | Interviewer          |
|------------|--|------------------------|------------------------|----------------------|----------------------|-------------|----------------------|
| Baseline   | Yes (1)                                    | 87.08                  | 3.88                   | 53.21                | 3.09                 | 09-25-2013  | David Nicks (P128)   |
| Baseline   |  | 49.95                  | 3.31                   | 55.14                | 3.11                 | 11-05-2013  | Teresa Peck (P129)   |
| Baseline   | Yes (1)                                    | 32.07                  | 3.48                   | 58.17                | 3.00                 | 11-03-2013  | Carol Gordon (P130)  |
| Baseline   | Yes (1)                                    | 47.73                  | 3.31                   | 45.97                | 3.15                 | 10-20-2013  | Sabina Rubess (P131) |
| Baseline   | Yes (1)                                    | 58.00                  | 3.99                   | 45.96                | 3.08                 | 10-20-2013  | Sabina Rubess (P131) |
| Baseline   | Yes (1)                                    | 47.81                  | 3.30                   | 51.47                | 3.03                 | 10-12-2013  | David Nicks (P128)   |

USER-DEFINED REPORTS



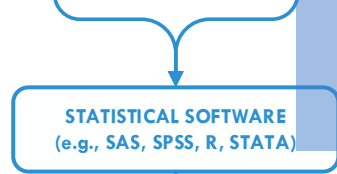
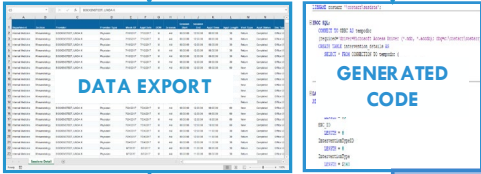
STATISTICS and DATA VISUALIZATIONS



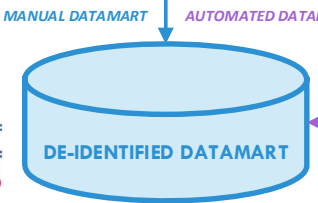
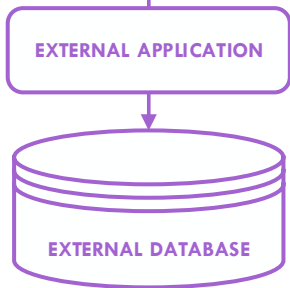
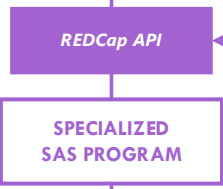
API Application Programming Interface  
 CDISC Clinical Data Interchange Standards Consortium  
 ODM Operational Data Model  
 DBMS Database Management System  
 DATAMART A read-only, deidentified snapshot of the database, in a format compatible with statistical software. Used for conduct-of-study reporting, 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)  | View Report Export Data Stats & Charts |                    |
| B | Selected instruments (all records) | Make custom selections                 |                    |
| 1 | All active participants            | View Report Export Data Stats & Charts | Edit Copy Delete   |
| 2 | Only >200 cm height                | View Report Export Data Stats & Charts | Edit Copy Delete   |
| 3 | Female participants                | View Report Export Data Stats & Charts | Edit Copy Delete   |

+ Create New Report

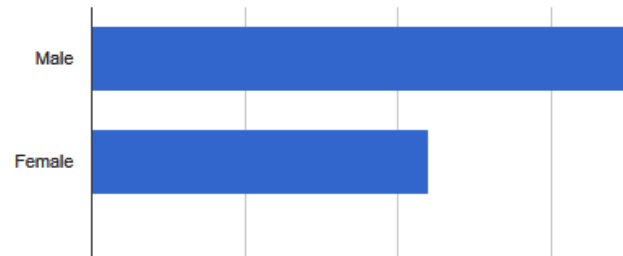


# Data Management Tools: Statistics and Graphs/Charts

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

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

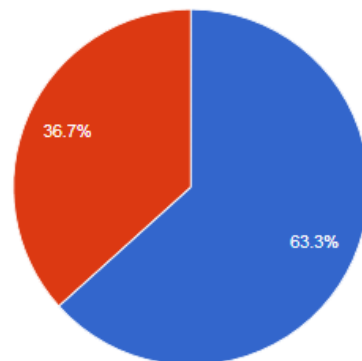
Counts/frequency: **Male** (19, 63.3%), **Female** (11, 36.7%), **Other** (0, 0.0%)



**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 -- ▼

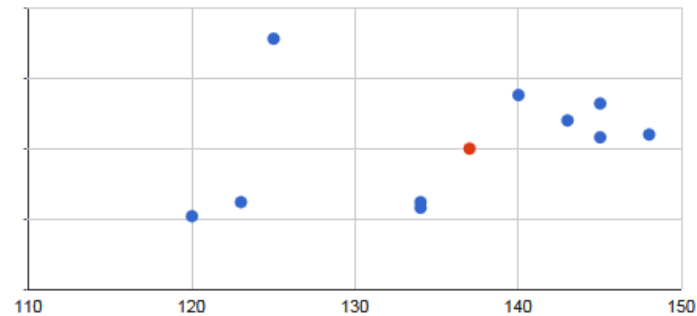
Viewing options: [Show plots & stats](#) [Show plots only](#) [Show stats only](#)

**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<br><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><br>Age | text (integer, Min: 40), Required   |   |                                   |   |                        |   |                           |   |                                     |   |       |   |            |   |         |
| 5  | sex                                 | Gender  | radio, Required<br><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<br><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<br><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



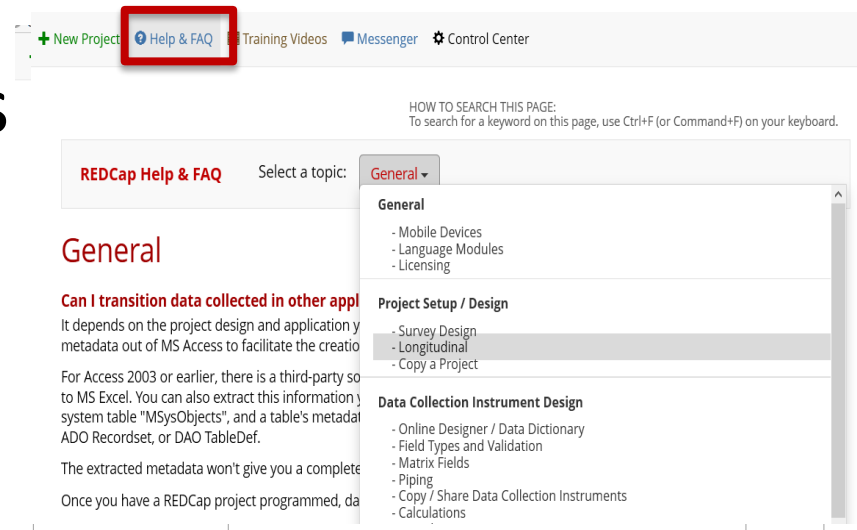
+

Training Sessions  
Consultations

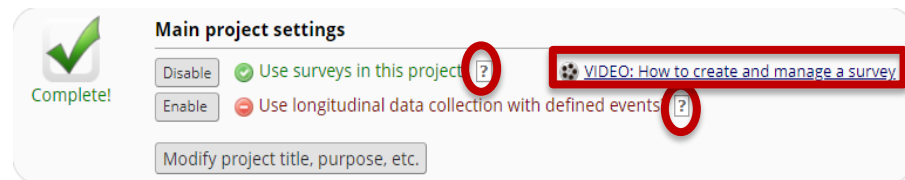
# REDCap's Do-It-Yourself Resources

<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/>



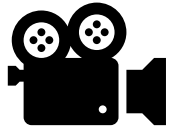
## FAQ Library: Step-by-step instructions








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

# Upcoming Spring Trainings

- **Managing Data in REDCap: Reports, Import, Export**
- **REDCap 201**
- **Survey Development**
- **REDCap 301**
- **Yale Study Support Suite (YES3): Exporter**

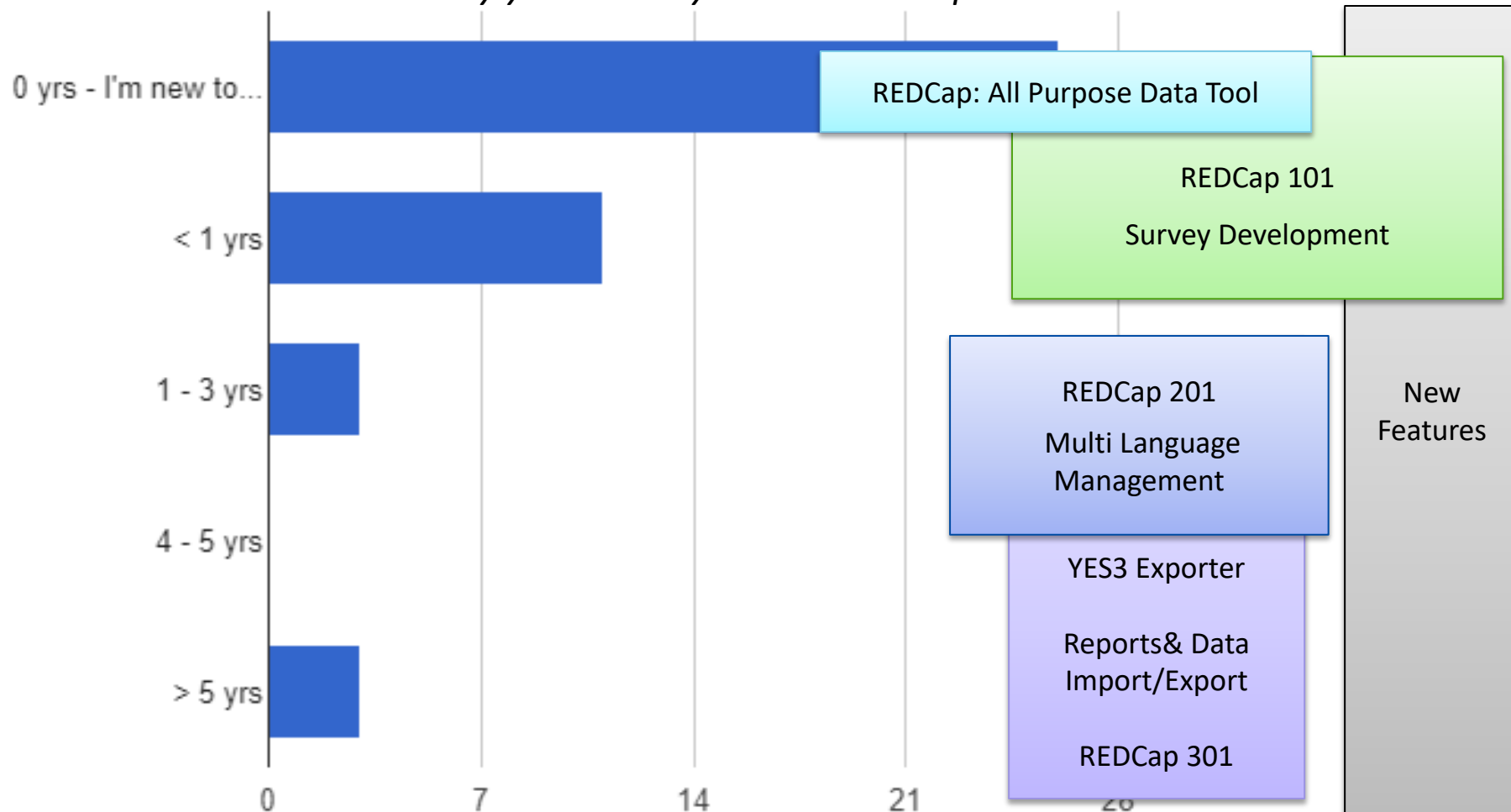
*Fall Training: REDCap 101, Survey Development, New Features, Multi Language Management*



# Trainings & Audience

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

*How many years have you used REDCap?*



# Consultations and Services



QUESTIONS or COMMENTS?

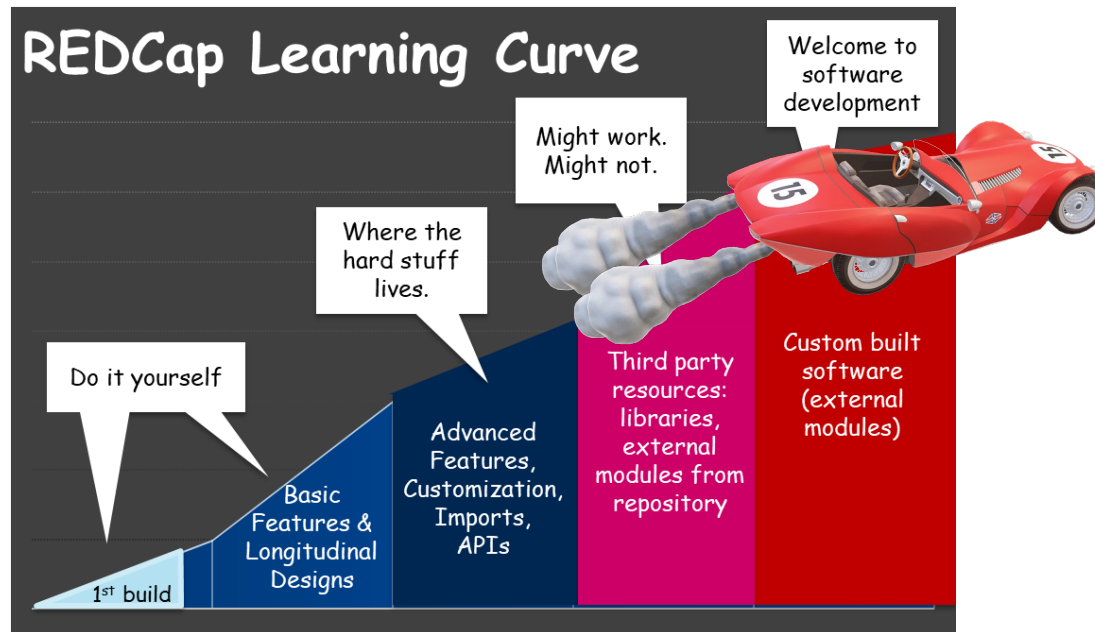


 **REDCap** @ Yale  
Research Electronic Data Capture

[redcap@yale.edu](mailto:redcap@yale.edu)

# 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

Search

### Module title and description

First Submitted

Most Recent Update

Downloads  
(installs only - Excludes updates)

#### YES3 Exporter (yes3\_exporter\_v1.0.2)

[View on GitHub](#) [View Stats](#)

**Description:** Specialized data export module for datamart integrations and data sharing

**Author:** [Peter Charpentier](#) (0)

2022-08-24

2022-08-24

5

You must be a REDCap administrator logged in to REDCap to download modules.

#### Yale Second Language extension (ydcplib\_second\_language\_v1.1.2)

[View on GitHub](#) [View Stats](#)

**Description:** Basic multilanguage support for REDCap forms

**Author:** [Peter Charpentier](#) (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. At the top, there's a header with 'dcare outcomes' and a 'new export' button. Below this is the 'EXPORT SETTINGS' section. It includes fields for 'Export name' (dcare outcomes), 'Export layout' (Horizontal), and 'Options for selecting records to export'. Under 'Include', there are radio buttons for 'All records' and 'Selected records'. 'Selection criterion: field' is set to 'trk\_enrolled', 'Selection criterion: event' is 'screen\_arm\_1', and 'Selection criterion: value(s)' is '1'. There are also checkboxes for 'Options for data compliance' and 'Options for conditioning exported values'. A 'Help' panel is open on the right, titled 'Here's some help', listing various actions like 'Add a new export specification', 'Open the bulk insertion tool', 'Save the export specification', etc.

## 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

This screenshot shows the 'FORMS AND FIELDS TO EXPORT' section of the YES3 Exporter. It features a table with 11 rows, each representing a different form or field. The columns are 'id', 'type', 'name', and 'description'. The forms listed include 'Screen event', 'Baseline event', 'NPI-Q', 'Modified Caregiver Strain Index (MCSI)', 'Caregiver Health Questionnaire (PHQ-8)', 'Functional Assessment Questionnaire (FAQ)', 'Montreal Cognitive Assessment (MOCA)', 'Caregiver Rating of Self-Efficacy', 'Positive Aspects of Family Caregiving', 'Caregiver Satisfaction With Dementia Care', and 'COVID Questionnaire'. Below the table, there are options to 'ADD SINGLE FORM OR FIELD' and 'BULK ADD'. The interface also shows a 'Timestamp' and 'User' at the bottom.

The screenshot displays the 'YES3 Exporter Logs' interface. It shows a table of log records with columns for 'log id', 'timestamp', and 'user'. A specific log record is selected, and a 'YES3 Export Log Record' dialog is open, showing detailed information for log ID 1930. The dialog includes fields for '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'. The 'Export specification' is set to 'inspect'.



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://cts.uic.edu/wp-content/uploads/sites/569/2021/03/Qualtrics-to-REDCap\\_v2021.pdf](https://cts.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

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