



# An Overview and New Feature Update

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**Department of Biostatistics**  
**Biostatistics Center**  
**Bloomberg School of Public Health**

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# **Presenter:** *Andre Hackman*

## **Current Position:**

Faculty, Research Associate  
Biostatistics Department  
Johns Hopkins Bloomberg School of Public Health



## **Background:**

- 19 years, involved with public health research at the Johns Hopkins Bloomberg School of Public Health both in the United States and overseas.
- First 11 years, in the Department of International Health supporting large, maternal mortality trials in Nepal and Bangladesh as well as anemia prevention trials in east Africa.
- Past 8 years, working in the Johns Hopkins Biostatistics Center as the Associate Director of the Data Informatics Services Core which provides data management services to researchers both inside and outside of Johns Hopkins University.

# Johns Hopkins Biostatistics Center Team



#### Upcoming Events:

- Weekly All-Hands Consortium Meeting - Every Friday, 1-2PM Central

[Introduction](#)
[Software](#)
[Consortium Partners](#)
[Become a Partner](#)
[Video Resources](#)
[Citing REDCap](#)
[Library](#)
[REDCapCon](#)

REDCap is a mature, secure web application for building and managing online surveys and databases. While REDCap can be used to collect virtually any type of data, it is specifically geared to support data capture for research studies. The REDCap Consortium is composed of **2,007 active institutional partners** in **107 countries** who utilize and support REDCap in various ways.

The REDCap application allows users to build and manage online surveys and databases quickly and securely, and is currently in production use or development build-status for more than **293,000 projects** with over **404,000 users** spanning numerous research focus areas across the consortium. To find out if your institution is already running REDCap, you will find contact information on the [Consortium Partners](#) page. Learn more about REDCap by watching a [brief summary video \(5 min\)](#) or [overview \(14 min\)](#).

### Map of REDCap Consortium Partners

[View fullscreen map](#)


#### Recent publications using REDCap:

**ICU-RESPECT: An Index to Assess Patient and Family Experiences of Respect in the Intensive Care Unit** *J Crit Care.* 2016 Jun 29;36:54-59. doi: 10.1016/j.jcrc.2016.06.018.

**Patellar Articular Overlap on MRI Is a Simple Alternative to Conventional Measurements of Patellar Height** *Orthop J Sports Med.* 2016 Jul 8;4(7):2325967116656328. doi: 10.1177/2325967116656328. eCollection 2016.

**Mid-Term Results and Predictors of Patient Reported Outcomes of Birmingham Hip Resurfacing** *J Arthroplasty.* 2016 Jul 6. pii: S0883-5403(16)30343-6. doi: 10.1016/j.arth.2016.06.049.

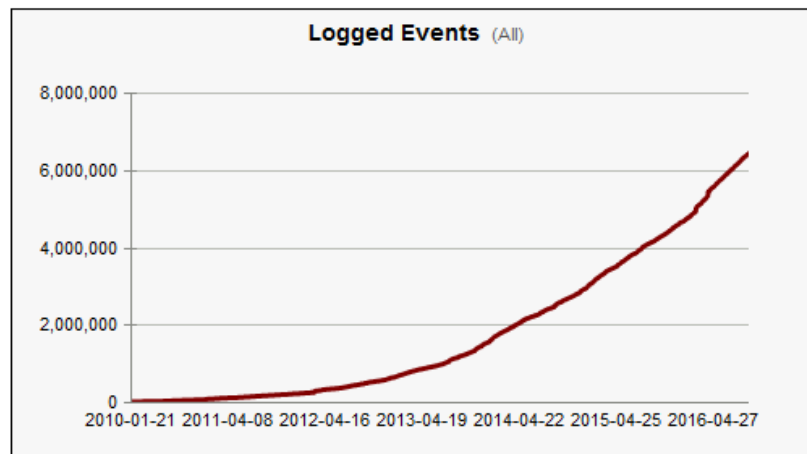
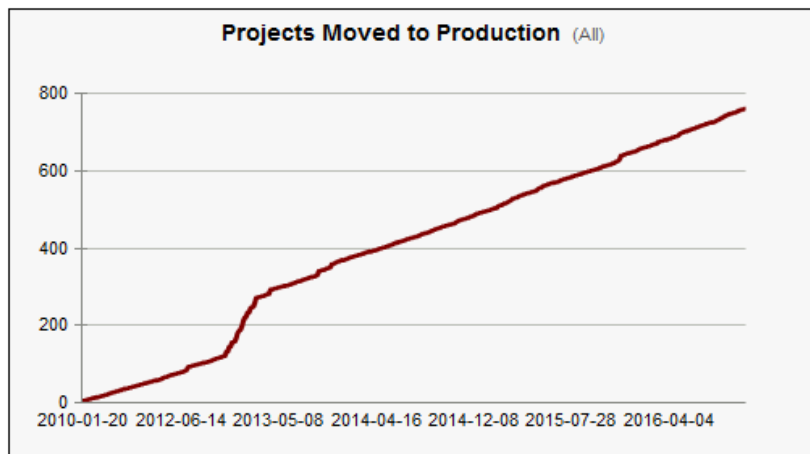
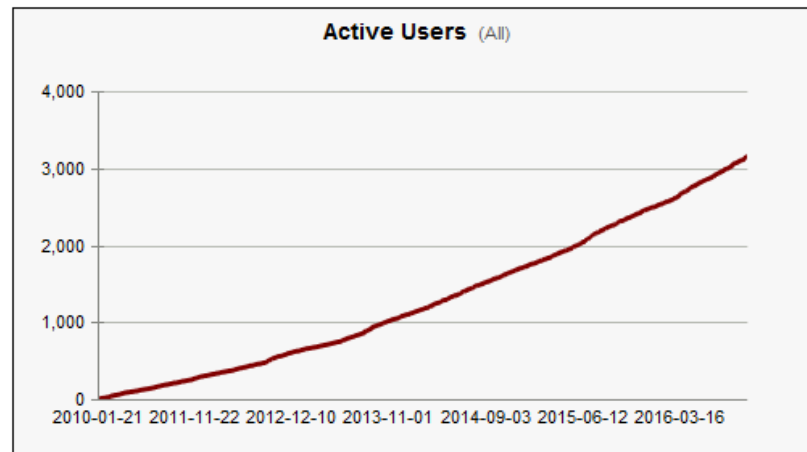
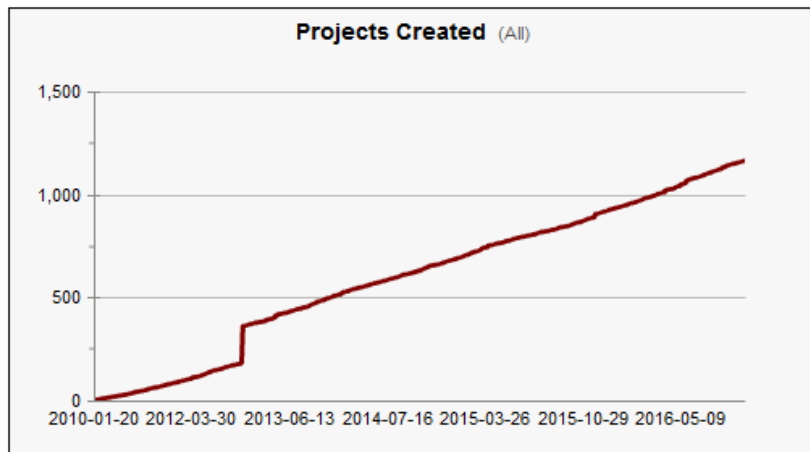
**Patterns of Distant Metastases After Surgical Management of Non-Small-cell Lung Cancer** *Clin Lung Cancer.* 2016 Jul 5. pii: S1525-7304(16)30169-3. doi: 10.1016/j.clcc.2016.06.011.

**Electronic data collection in epidemiological research. The use of REDCap in the Pelotas birth cohorts** *Appl Clin Inform.* 2016 Jul 13;7(3):672-81. doi: 10.4338/ACI-2016-02-RA-0028.

**Factors associated with tobacco use among patients with multiple chronic conditions** *Int J Cardiol.* 2016 Jul 5;221:1004-1007. doi: 10.1016/j.ijcard.2016.07.041.

[View all 2,581 articles](#)

# Our REDCap growth since January 2010...





# REDCap Benefits


Research Electronic Data Capture

- Web-based
- Uses your browser - Nothing extra to install
- Fast and flexible survey setup and design
- No programmer required
- Multi-site access
- Multi-user access
- Data collection instruments can be saved as PDF with/without data
- Ability to correct data on the fly, with audit trail
- Data are easily exported from REDCap
- Active and responsive support consortium





# Project Home View in REDCap



Logged in as **sondemo** | [Log out](#)

[My Projects](#)  
[Project Home](#)  
[Project Setup](#)

Project status: **Development**

**Data Collection** [Edit instruments](#)

[Record Status Dashboard](#)  
- View data collection status of all records  
[Add / Edit Records](#)  
- Create new records or edit/view existing ones

**Applications**

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[REDCap Mobile App](#)

**Reports** [Edit reports](#)

- Participant Listing
- Form Status Update

**Help & Information**

[Help & FAQ](#)  
[Video Tutorials](#)  
[★ Suggest a New Feature](#)

If you are experiencing problems, please contact your [REDCap administrator](#).

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**Demo Project - Longitudinal project**

[Project Home](#) [Project Setup](#) [Other Functionality](#) [Project Revision History](#)

**Quick Tasks**

[Codebook](#)

The Codebook is a human-readable, read-only version of the project's Data Dictionary and serves as a quick reference for viewing field attributes.

[Export data](#)

Export your data from REDCap to open or view in Excel or various stats packages.

[Create a report](#)

Build custom reports for quick views of your data, and export reports to Excel/CSV.

[Check data quality](#)

Build or execute data quality rules to find discrepancies and errors in your project data.

[User Rights](#)

Grant new users access to this project or modify user privileges for current users.

[Online Designer and Data Dictionary Upload](#)

Create new fields/questions on your data collection instruments or modify existing ones using the Online Designer or by uploading a Data Dictionary. Quick link: [Download the current Data Dictionary](#)

[Copy this project](#)

Create an exact duplicate of this project, which copies over all data collection instruments, any surveys that exist, as well as the option to copy all users and reports to the new project.

[Data Access Groups](#)

Create groups of users to limit user access to certain records/responses, in which only users within a given Data Access Group can access records created by users within that group.


**Project Dashboard**

The tables below provide general dashboard information, such as a list of all users with access to this project, general project statistics, and upcoming calendar events (if any).

**Current Users**

User	Expires
ahackman (Andre Hackman)	never
sondemo (Andre Hackman)	never

**Project Statistics**

Records in project	100
Most recent activity	09/08/2016 8:52am
Space usage for docs	0.00 MB
Project status	 Development

**Upcoming Calendar Events** (next 7 days)

Time	Date	Description
		No upcoming events

# Online Form Designer in REDCap

The screenshot displays the REDCap Online Form Designer interface. On the left is a sidebar with navigation links: File Repository, User Rights and DAGs, Data Quality, API and API Playground, REDCap Mobile App, Reports (with an 'Edit reports' link), and Help & Information (with links for Help & FAQ, Video Tutorials, and a 'Suggest a New Feature' button). Below these is a note about contacting the REDCap administrator. The main area shows a form titled 'Demographics Information' with fields for 'Child ID', 'First Name', 'Last Name', 'Mother full name', 'Father full name', and 'Street, City, State, ZIP'. A modal dialog titled 'Edit Field' is open, showing configuration for a 'Gender' field. The dialog includes instructions, a 'Field Type' dropdown set to 'Multiple Choice - Radio Buttons (Single Answer)', a 'Field Label' of 'Gender', and a 'Variable Name' of 'gender'. It also has checkboxes for 'Required?' (set to No), 'Identifier?' (set to No), and 'Custom Alignment' (set to Right / Vertical (RV)). The 'Choices' section lists '1, 1 - Female' and '2, 2 - Male'. At the bottom of the dialog are 'Save' and 'Cancel' buttons. The background form shows the 'Gender' field with radio buttons for '1 - Female' and '2 - Male', and a 'reset' button.

File Repository  
User Rights and DAGs  
Data Quality  
API and API Playground  
REDCap Mobile App

Reports [Edit reports](#)

1) Participant Listing  
2) Form Status Update

Help & Information

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

If you are experiencing problems, please contact your [REDCap administrator](#).

Child ID

NOTE: The field above is the record ID field and thus cannot be deleted or moved. It can only be edited.

Add Field Add Matrix of Fields

Demographics Information

First Name

Last Name

Mother full name

Father full name

Street, City, State, ZIP

Gender

1 - Female  
2 - Male

reset

Add Field Add Matrix of Fields

Variable: dob [Branching logic exists]

### Edit 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: Multiple Choice - Radio Buttons (Single Answer)

Field Label: Gender [How to use Piping](#)

Variable Name (utilized during data export): gender ☐ Enable auto naming of variable based upon its Field Label?  
ONLY letters, numbers, and underscores

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

Field Annotation: [Learn about Action Tags](#)  
Explanatory notes - not displayed on any page ?

Save Cancel

Choices (one choice per line) [Copy existing choices](#)

1, 1 - Female  
2, 2 - Male

[How do I manually code the choices?](#)



# Offline Data Dictionary in REDCap

## download csv text file --> edit --> upload

PresentationDemoDatabase3\_DataDictionary\_2016-09-08.csv [Read-Only] - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW Easy Document Creator ACROBAT TEAM

Normal Page Break Preview Page Layout Custom Views

Workbook Views

Ruler Formula Bar Gridlines Headings

Show

Zoom 100% Zoom to Selection

Zoom

New Window Arrange All Freeze Panes Split Hide Unhide

Window

View Side by Side Synchronous Scrolling Reset Window Position

Switch Windows

Macros

Macros

B36 : X ✓ fx demographics

	A	B	C	D	E	F	
1	Variable / Field Name	Form Name	Section Header	Field Type	Field Label	Choices, Calculations, OR Slider Labels	F
32	gender	demographics		dropdown	Gender	0, 0 - Female   1, 1 - Male	
33	currentlypreg	demographics		radio	<h1>Are you <b>currently</b> pregnant?</h1>	0, 0 - No   1, 1 - Yes   2, 2 - Do not know	
34	testscale	demographics		slider	test scale	0   5   10	
35	desctest	demographics		descriptive	Descriptive text test		
36	test_negcode_radio	demographics		radio	Testing Question with a negative coding for missing/don't k	1, Happy   2, Neither happy nor sad   3, Sa	
37	test_negcode_ckbox	demographics		checkbox	Testing Question with a negative coding for missing/don't k	1, Happy   2, Neither happy nor sad   3, Sa	
38	not_happy	demographics		text	Not Happy		
39	pain	demographics		slider	pain	mild   moderate   severe	
40	testformat	demographics		text	<h3>Penetration Aspiration Scale. </h3> <u>Rosenbek et al, Dysphagia</u> 11:93 98 <i>April </i> 199		
41	phone_number	demographics		text	Phone number		S
42	sample1yn	demographics		radio	1. Sample Question	1, Yes   0, No	
43	sample2yn	demographics		radio	2. Sample Question	1, Yes   0, No	
44	sample3yn	demographics		radio	3. Sample Question	1, Yes   0, No	
45	sample4yn	demographics		radio	4. Sample Question - eligible is No	1, Yes   0, No	
46	sample5yn	demographics		radio	5. Sample Question - eligible is No	1, Yes   0, No	
47	samplesum	demographics		calc	Eligible for Study? (1-3 must be Yes, 4-5 must be No)	if([sample1yn]+[sample2yn]+[sample3yn]=	
48	painlevelslider	demographics		slider	Pain Level	None (0)   Mild (5)   Extreme (10)	
49	painlevelvalue	demographics		calc	Pain Level Value	[painlevelslider] / 10	
50	like_fruit	demographics		dropdown	Do you like fruit?	1, yes   0, no	
51	samplecheckall	demographics		checkbox	For this question check all that apply:	1, apples   2, oranges   3, grapes   4, banar	

# Entering Data in REDCap

Logged in as **sondemo** | [Log out](#)

My Projects

Project Home

Project Setup

Project status: **Development**

Data Collection

[Edit instruments](#)

Record Status Dashboard

- View data collection status of all records

Add / Edit Records

- Create new records or edit/view existing ones

Child ID 1003

[Select other record](#)

Event: **Baseline Visit**

Data Collection Instruments:

Child Info

Mother Interview

Clinic Visit

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[Edit reports](#)

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Help & Information

Help & FAQ

Video Tutorials

Suggest a New Feature

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**Demo Project - Longitudinal project**

VIDEO: [Basic data entry](#)

Actions: 

Modify instrument

Download PDF of instrument(s)

Child Info

Adding new Child ID 1003

Event Name: **Baseline Visit**

Child ID1003

Demographics Information

First Name

Last Name

Mother full name

Father full name

Street, City, State, ZIP

Expand

Gender

☐ 1 - Female

☐ 2 - Male

reset

Form Status

Complete?

Incomplete

Save Record

Save and Continue

Save and go to Next Form

-- Cancel --

# Exporting Data and Reporting in REDCap



Logged in as **sondemo** | [Log out](#)

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## Data Collection [Edit instruments](#)

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## Applications

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- [User Rights](#) and [DAGs](#)
- [Data Quality](#)
- [API](#) and [API Playground](#)

## Reports [Edit reports](#)

- Participant Listing
- Form Status Update

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## Demo Project - Longitudinal project

### Data Exports, Reports, and Stats

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


- [+ Create New Report](#)
- [My Reports & Exports](#)
- [PDF & 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	Report ID  (auto-generated)
A	<b>All data</b> (all records and fields)	<a href="#">View Report</a> <a href="#">Export Data</a> <a href="#">Stats &amp; Charts</a>		
B	<b>Selected instruments and/or events</b> (all records)	<a href="#">Make custom selections</a>		
1	Participant Listing	<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>	223
2	Form Status Update	<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>	224
	<a href="#">+ Create New Report</a>			

# Exporting Data and Reporting in REDCap



Logged in as **sondemo** | [Log out](#)

My Projects

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Data Collection

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Suggest a New Feature

If you are experiencing problems, please contact your [REDCap administrator](#).

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Demo Project - Longitudinal project

Data Exports, Reports, and Stats

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

Create New Report

My Reports & Exports

PDF & Other Export Options

View Report: **Participant Listing**

Number of results returned: **48**

Total number of records queried: 197

(records = total available data across all designated events)

Stats & Charts

Export Report

Print Page

Edit Report

Participant Listing

Child ID (childid)	Event Name (redcap_event_name)	First Name (firstname)	Last Name (lastname)	Mother full name (momname)	Father full name (dadname)	Street, City, State, ZIP (address)	Gender (gender)	Date of Birth (dob)	Complete? (child_info_complete)	Mother Interview Visit Date (mi_visitdate)
<a href="#">150131</a>	Baseline Visit	Xanthus	Hubbard	Brooke Hubbard	Ralph Hubbard	2364 Orci. St.	2 - Male (2)	09-27-2002	Complete (2)	
<a href="#">151132</a>	Baseline Visit	Reuben	Witt	Wynter Witt	Thane Witt	4414 Lobortis Av.	2 - Male (2)	03-18-2004	Incomplete (0)	
<a href="#">151632</a>	Baseline Visit	Steel	Roberts	Aurora Roberts	Malik Roberts	8418 Eleifend Av.	2 - Male (2)	01-11-2003	Incomplete (0)	
<a href="#">151731</a>	Baseline Visit	Kaden	Harrington	Keely Harrington	Justin Harrington	P.O. Box 297, 5801 Dignissim Av.	2 - Male (2)	05-06-2003	Incomplete (0)	
<a href="#">152331</a>	Baseline Visit	Kasper	Randolph	Scarlet Randolph	Sebastian Randolph	632-9505 Quam Avenue	2 - Male (2)	12-28-2003	Incomplete (0)	
<a href="#">153231</a>	Baseline Visit	Dolan	Pope	Delilah Pope	Hyatt Pope	Ap #921-2119 Tempor Rd.	2 - Male (2)	02-09-2002	Incomplete (0)	
<a href="#">153332</a>	Baseline Visit	Rowan	Steele	Lesley Steele	Cairo Steele	Ap #148-1699 Sodales Av.	2 - Male (2)	01-13-2002	Incomplete (0)	


## Exporting Data and Reporting in REDCap

Exporting "Participant Listing"

Select your export settings, which includes the export format (Excel/CSV, SAS, SPSS, R, Stata) and whether or not 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

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


# Setting User Rights in REDCap

 Editing existing user role "Project Administrator" 


You may set the rights for the user below by checking the boxes next to the application tools to which you wish to grant them access. You may also grant them or deny them access to individual data collection instruments, if so desired. To save your selections, click the "Save Changes" button at the bottom of the page.

Editing existing user role "Project Administrator"


Basic Rights

 Role name:


Highest level privileges:

 Project Design and Setup

☒


 User Rights

☒

 Data Access Groups

☒

Privileges for data exports (including PDFs and API exports), reports, and stats:

 Data Exports


☐ No Access

☐ De-identified\*

☐ Remove all tagged Identifier fields


☒ Full Data Set

\* De-identified means that all free-form text fields will be removed, as well as any date/time fields and Identifier fields.

 Add / Edit Reports


☒

Also allows user to view ALL reports (but not necessarily all data in the reports)


 Stats & Charts

☒


Other privileges:

 Calendar


☒

 Data Import Tool


☒

 Data Comparison Tool


☒

 Logging

☒

 File Repository


☒

 Data Quality

☒ Create & edit rules

☒ Execute rules

[What is Data Quality?](#)

 API

☒ API Export

☒ API Import

[What is the REDCap API?](#)

Data Entry Rights

*NOTE: The data entry rights \*only\* pertain to a user's ability to view or edit data on a web page in REDCap (e.g., data entry forms, reports). It has no effect on data imports or data exports.*

	No Access	Read Only	View & Edit
Child Info	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Mother Interview	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Clinic Visit	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Save Changes


Cancel

Copy role

Delete role



# Audit Trail Logging in REDCap



Logged in as **ahackman** | [Log out](#)

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- Generate schedules for the calendar using your defined events

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[E-signature and Locking Mgmt](#)  
[Graphical Data View & Stats](#)  
[Data Quality](#)  
[API](#)  
[Report Builder](#)

**Reports**


1) [Patient Information Report](#)

[Help & Information](#)

[Help & FAQ](#)

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**Presentation Demo Database 3**

 **Logging** [Download entire logging record to Microsoft Excel \(CSV\)](#)

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 ▾


Displaying events (by most recent): 601 - 700 ▾


Time / Date	Username	Action	List of Data Changes OR Fields Exported
10:31am 07/28/2011	ahackman	Data Export	study_id, first_name, last_name, address, dob, gender, currentlypreg
10:19am 07/28/2011	ahackman	Manage/Design	Reorder project fields
10:16am 07/28/2011	ahackman	Manage/Design	Download data dictionary
7:47am 07/28/2011	ahackman	Updated Record 1002 (Baseline - Arm 1: Treatment group)	gender = '1'
7:46am 07/28/2011	ahackman	Manage/Design	Edit project field
7:46am 07/28/2011	ahackman	Manage/Design	Edit project field
4:15pm 07/21/2011	ahackman	Manage/Design	Download exported data file (CSV raw)
4:15pm 07/21/2011	ahackman	Data Export	study_id, first_name, last_name, address, dob, sex, sample2yn, sample4yn, sample5yn
3:59pm 07/21/2011	ahackman	Manage/Design	Reorder project fields
2:42pm 07/14/2011	ahackman	Manage/Design	Rename data access group
2:42pm 07/14/2011	ahackman	Manage/Design	Rename data access group
2:34pm 07/14/2011	ahackman	Data Export	study_id, first_name, last_name, address, dob, sex, currentlypreg, testformat
2:21pm 07/14/2011	ahackman	Manage/Design	Reorder project fields
2:20pm 07/14/2011	ahackman	Manage/Design	Reorder project fields
1:45pm 07/11/2011	ahackman	Data Export	study_id, first_name, last_name, address, dob, sex, currentlypreg, testformat, phone_number, sample1yn
1:38pm 07/11/2011	ahackman	Manage/Design	Download data dictionary


# Data Quality Module in REDCap



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Project status: **Development**

**Data Collection**


[Edit instruments](#)

 **Manage Survey Participants**


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

 **Scheduling**

- Generate schedules for the calendar using your defined events


 **Record Status Dashboard**


- View data collection status of all records


 **Add / Edit Records**


- Create new records or edit/view existing ones


**Applications**


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 [Record Locking Customization](#)

 [Randomization](#)

 [Data Quality](#)

Johns Hopkins University  
ICTR - Clinical Research Unit




**Intro to Data Management 2015-16 T4 Demo (master)**

 **Data Quality**


This module will allow you to execute data quality rules upon your project data to check for discrepancies in your data. Listed below are some pre-defined data rules that you may utilize and run. You may also create your own rules or edit, delete, or reorder the rules you have already created. To find discrepancies for a given rule, simply click the Execute button next to it, or click the Execute All Rules button to fire all the rules at once. It will provide you with a total number of discrepancies found for each rule and will allow you to view the details of those discrepancies by clicking the View link next to each. [Read more detailed instructions.](#)

**Execute rules:** All All except A&B All custom Clear


**Apply to:** -- All records --


	Rule #	Rule Name	Rule Logic (Show discrepancy only if...)	Real-time execution 	Total Discrepancies	Johns Hopkins University	University of Maryland	Delete rule?
	A	Missing values*	-		<button>Execute</button>			
	B	Missing values* (required fields only)	-		<button>Execute</button>			
	C	Field validation errors (incorrect data type)	-		<button>Execute</button>			
	D	Field validation errors (out of range)	-		<button>Execute</button>			
	E	Outliers for numerical fields (numbers, integers, sliders, calc fields)	-		<button>Execute</button>			
	F	Hidden fields that contain values**	-		<button>Execute</button>			
	G	Multiple choice fields with invalid values	-		<button>Execute</button>			
	H	Incorrect values for calculated fields	-		<button>Execute</button>			
	1	Participant is older than 50. Please confirm that they are currently pregnant.	[currentlypreg] = "1" and [ageyrs] > 50		<button>Execute</button>			


# Surveys in REDCap



Logged in as **sondemo** | [Log out](#)


 My Projects

 Project Home


 Project Setup

Project status: **Development**


Data Collection

 Manage Survey Participants


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

 Scheduling

- Generate schedules for the calendar using your defined events

 Record Status Dashboard

- View data collection status of all records


 Add / Edit Records


- Create new records or edit/view existing ones


Study ID **102** Branch, Tim


[Select other record](#)


Applications


 Calendar


 Data Exports, Reports, and Stats



 Data Import Tool

 Data Comparison Tool

 Logging

 Field Comment Log


 File Repository

 User Rights and  DAGs

Johns Hopkins University


ICTR - Clinical Research Unit



Intro to Data Management 2015-16 T4 Demo (master)


 Event Grid


The grid below displays the form-by-form progress of data entered into the project for one particular Study ID for all defined events. You may click on the colored buttons to access that form for that event. If you wish, you may modify the events below by navigating to the [Define My Events](#) page.


Legend for status icons:


 Incomplete

 Incomplete (no data saved) 

 Unverified












 Partial Survey Response

 Complete

 Completed Survey Response

Study ID **102** Branch, Tim

(Arm 1: Treatment group)

Data Collection Instrument	Baseline (1)	3 Month visit (2)	6 Month visit (3)	1 Year visit (4)	Acute Care Visit #1 (5)	Acute Care Visit #2 (6)	Acute Care Visit #3 (7)	Acute Care Visit #4 (8)	Acute Care Visit #5 (9)
Demographics									
Baseline Form									
Follow-up Form									
Final Survey (survey)									
Acute Care Visit Form									

# Surveys in REDCap

## Final Survey

Resize font:



Please complete the survey below.

Thank you!

1) Did you feel that participating in this study was helpful?

- ☐ Yes  
☐ No

[reset](#)

2) During your visits, were the study staff helpful and informative?

- ☐ Yes  
☐ No

[reset](#)

3) Would you be willing to participate in a future study?

- ☐ Yes  
☐ No

[reset](#)

4) Do you have any suggestions or feedback for the study team?

[Expand](#)

[Submit](#)

# We're Upgrading to REDCap v6.16.8 (finally!)

- Our timeline...
  - Currently running v6.8.2 (released 8/26/2015)
  - Upgrading to v6.16.8 (released 9/8/2016)
  - We had hoped to complete the upgrade last weekend but ran into non-REDCap technical issues and some testing issues.
  - We are expecting to upgrade this coming weekend if testing goes well!



# New features in REDCap v6.16.8 upgrade

- **New action tags**

Tag	Description
@LATITUDE	Allows a Text field to capture the <b>latitude</b> of the user.
@LONGITUDE	Allows a Text field to capture the <b>longitude</b> of the user.
@PASSWORDMASK	Masks the value of a Text field so that the true value is not visible on the webpage after it has been entered (like password fields on login pages).
@NOW	Automatically provides the user's <b>current time</b> as the value of a Text when the page is loaded.
@TODAY	Automatically provides the user's <b>current date</b> as the value of a Text when the page is loaded.
@USERNAME	Sets a field's value to the <b>username</b> of the current REDCap user. If this is used on a survey, the value will be "[survey respondent]".
@DEFAULT	Sets a field's initial value. For text fields, Piping is allowed inside the default value to pipe data from another field in the project - e.g., @DEFAULT="Name: [first_name] [last_name], DOB: [dob]"
@HIDEBUTTON	Hides the 'Now' or 'Today' button that is typically displayed to the right of date, time, and date/time fields.

(For automatic values, once captured, values will not be changed when visiting the page later)





# New features in REDCap v6.16.8 upgrade

- **New mobile app action tags**

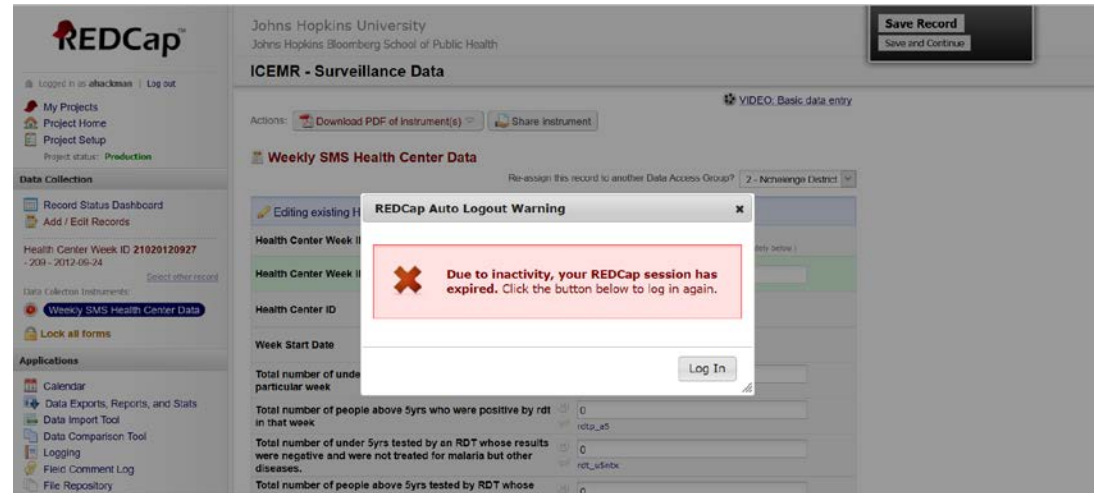
Tag	Description
<b>@APPUSERNAME-APP</b>	In the REDCap Mobile App, this action tag sets a field's value to the app username of the current mobile app user
<b>@HIDDEN-APP</b>	Hides the field only on the form ONLY on the REDCap Mobile App. Field will stay hidden even if branching logic attempts to make it visible.
<b>@READONLY-APP</b>	Makes the field read-only (i.e., disabled) on the form ONLY on the REDCap Mobile App so that its value cannot be changed.
<b>@BARCODE-APP</b>	Allows the REDCap Mobile App to capture the value of a barcode or QR code by scanning it with the device's camera.



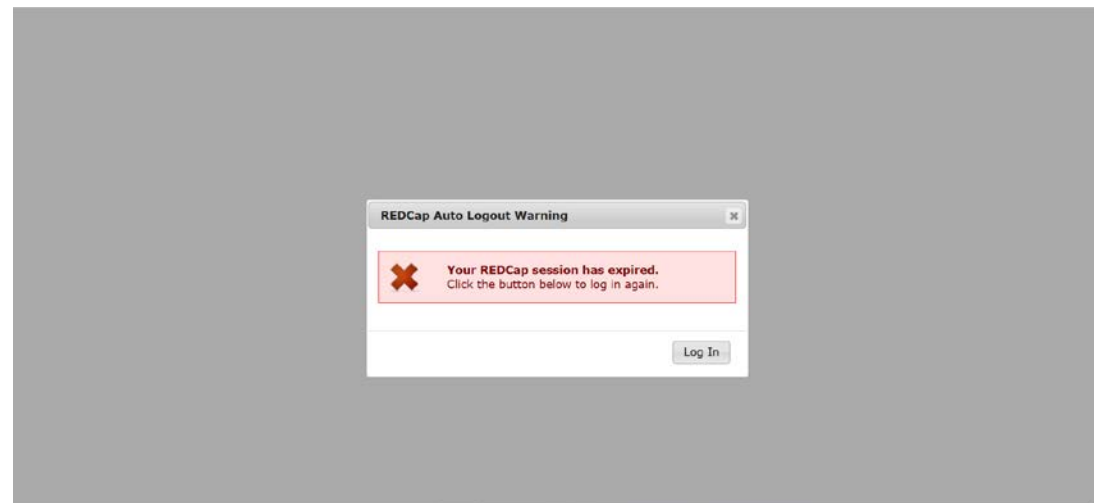
# New features in REDCap v6.16.8 upgrade

Screen timeout more secure

OLD (Data still visible)



NEW (Blank background)



# New features in REDCap v6.16.8 upgrade

- Custom Event Labels

- Custom Event Labels can now be optionally added for any event in a longitudinal project when adding/editing events on the Define Events page.

Study ID **1001** Hackman, Andre  
(Arm 1: Treatment group)

Data Collection Instrument	Baseline	3 Month visit	6 Month visit	1 Year visit	Acute Care Visit #1	Acute Care Visit #2	Acute Care Visit #3	Acute Care Visit #4	Acute Care Visit #5
Demographics	<input checked="" type="radio"/>								
Baseline Form	<input checked="" type="radio"/>								
Follow-up Form		<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>					
Acute Care Visit Form (survey)					<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

OLD event grid

Study ID **1001** Hackman, Andre  
(Arm 1: Treatment group)

Data Collection Instrument	Baseline 08-06-2015	3 Month visit 11-09-2015	6 Month visit 02-08-2016	1 Year visit 08-08-2016	Acute Care Visit #1 2015-11-24	Acute Care Visit #2	Acute Care Visit #3	Acute Care Visit #4	Acute Care Visit #5
Demographics	<input checked="" type="radio"/>								
Baseline Form	<input checked="" type="radio"/>								
Follow-up Form		<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>					
Acute Care Visit Form (survey)					<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

NEW event grid
















# New features in REDCap v6.16.8 upgrade

- Custom Event Labels

- Custom Event Labels can now be optionally added for any event in a longitudinal project when adding/editing events on the Define Events page.







Arm 1: Treatment group | Arm 2: Control group | +Add New Arm

Arm name: **Treatment group** [Rename Arm 1](#) | [Delete Arm 1](#)

	Event #	Days Offset	Offset Range Min / Max	Event Name	Custom Event Label (optional)	Unique event name (auto-generated)
 	1	0	-0/+0	Baseline	[date_md_y_test]	baseline_arm_1
 	2	90	-7/+7	3 Month visit	[visitdate]	3_month_visit_arm_1
 	3	180	-0/+0	6 Month visit	[visitdate]	6_month_visit_arm_1
 	4	365	-0/+0	1 Year visit	[visitdate]	1_year_visit_arm_1
 	5	2501	-0/+0	Acute Care Visit #1	[date_av]	acute_care_visit_1_arm_1
 	6	2502	-0/+0	Acute Care Visit #2	[date_av]	acute_care_visit_2_arm_1
 	7	2503	-0/+0	Acute Care Visit #3	[date_av]	acute_care_visit_3_arm_1
 	8	2504	-0/+0	Acute Care Visit #4	[date_av]	acute_care_visit_4_arm_1
 	9	2505	-0/+0	Acute Care Visit #5	[date_av]	acute_care_visit_5_arm_1
Add new event						
		Days	-0 +0	<input type="text"/>	<input type="text"/>	
		<a href="#">Convert from other units</a>		Descriptive name for this event	Custom Event Label (optional) Example: [visit_date], [weight] kg	



Study ID **1001** Hackman, Andre  
(Arm 1: Treatment group)

Data Collection Instrument	Baseline 08-06-2015	3 Month visit 11-09-2015	6 Month visit 02-08-2016	1 Year visit 08-08-2016	Acute Care Visit #1 2015-11-24	Acute Care Visit #2	Acute Care Visit #3	Acute Care Visit #4	Acute Care Visit #5
Demographics									
Baseline Form									
Follow-up Form									
Acute Care Visit Form (survey)									



# New features in REDCap v6.16.8 upgrade

- Arms and Events can be downloaded/uploaded

Project Setup


Define My Events

Designate Instruments for My Events

Since you have defined multiple events on the [Define My Events](#) page, you may now select which data collection instruments that you wish to utilize for each event by using the table below. This allows you to enter data on any data collection form multiple times for any given project record. Any and all data collection instruments can thus be used for any event defined.

Click the *Begin Editing* button to change the relationships below by designating which forms you wish to utilize for which events. When you are finished making changes, click the *Save* button to finalize your changes.

Upload or download instrument mappings



Arm 1: Treatment group

Arm 2: Control group

Arm name: **Treatment group**

Begin Editing

Save

Data Collection Instrument	Baseline (1)	3 Month visit (2)	6 Month visit (3)	1 Year visit (4)	Acute Care Visit #1 (5)	Acute Care Visit #2 (6)	Acute Care Visit #3 (7)	Acute Care Visit #4 (8)	Acute Care Visit #5 (9)
Demographics	✓								
Baseline Form	✓								
Follow-up Form		✓	✓	✓					
Acute Care Visit Form (survey)					✓	✓	✓	✓	✓



# New features in REDCap v6.16.8 upgrade

- Users may now export a project's data in CDISC ODM format.




Exporting "All data (all records and fields)"

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?](#)

☐ Also shift all survey completion timestamps by value between 0 and 364 days (shifted amount determined by algorithm for each record)

[Deselect all options](#)

Additional export options

☒ Export Data Access Group name for each record (if record is in a group)?

☒ Export survey identifier field and survey timestamp field(s)?

Export Data

Cancel



# New features in REDCap v6.16.8 upgrade

- Large exports will not halt with errors
  - REDCap will now invisibly revert to a backup process that utilizes a local temp file on the server for temporarily storing data during the export process, rather than relying on server memory solely.

The screenshot shows the 'Exporting "All data (all records and fields)"' dialog box in REDCap. The dialog is titled 'Exporting "All data (all records and fields)"' and contains the following sections:

- Choose export format:** A list of export formats with radio buttons. The selected format is 'CDISC ODM (XML)'. The other options are: 'CSV / Microsoft Excel (raw data)', 'CSV / Microsoft Excel (labels)', 'SPSS Statistical Software', 'SAS Statistical Software', and 'R Statistical Software'.
- De-identification options (optional):** A section with a description: 'The options below allow you to limit the amount of sensitive information that you are exporting out of the project. Check all that apply.' It includes three sub-sections:
  - Known Identifiers:** Two checkboxes: 'Remove all tagged Identifier fields (tagged in Data Dictionary)' and 'Hash the Record ID field (converts record name to an unrecognizable value)'.
  - Free-form text:** Two checkboxes: 'Remove unvalidated Text fields (i.e. Text fields other than dates, numbers, etc.)' and 'Remove Notes/Essay box fields'.
  - Date and datetime fields:** A checkbox 'Remove all date and datetime fields', followed by 'OR', then a checkbox 'Shift all dates by value between 0 and 364 days (shifted amount determined by algorithm for each record)' with a link 'What is date shifting?', and finally a checkbox 'Also shift all survey completion timestamps by value between 0 and 364 days (shifted amount determined by algorithm for each record)'.
- Additional export options:** Two checkboxes: 'Export Data Access Group name for each record (if record is in a group)?' and 'Export survey identifier field and survey timestamp field(s)?'.

At the bottom right, there are two buttons: 'Export Data' and 'Cancel'.

# New features in REDCap v6.16.8 upgrade

- An entire REDCap project can now be exported as a single XML file in CDISC ODM format.
  - The file includes events, arms, instruments, fields, and project attributes – even Descriptive field attachments.

## Copy or Back Up the Project



Copy the project



Download metadata only (XML)



Download metadata & data (XML)

**Make an exact duplicate of this project.** All project fields will be copied over, and you will be prompted to set the title and info for the new project. You may choose to copy or not copy the existing data in the current project to the new one.

**Download a backup of this project.** The entire project (all records, events, arms, instruments, fields, and project attributes) can be downloaded as a single XML file, which is in CDISC ODM format (ODM version 1.3.1). This XML file can be used to create a clone of the project (including its data, optionally) on this REDCap server or on another REDCap server (it can be uploaded on the Create New Project page). Because it is in CDISC ODM format, it can also be used to import the project into another ODM-compatible system.

NOTE: The exported XML file does *\*not\** contain the project's logging history (audit trail), but if you wish to obtain it, you may freely download it any time at the top of the Logging page.



# New features in REDCap v6.16.8 upgrade

- Create a new project from a REDCap XML file or other XML file containing metadata in CDISC ODM format.

## 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. **Your project will not be created immediately**, but your request will be quickly reviewed by a REDCap administrator, after which you will be notified via email when the project has been created.

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

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

**Project Folders:** ☐ My Surveys ☐ My Studies  
[Hide Project Folders](#)

**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) [?](#)

Select XML file:  No file chosen

☐ Use a template (choose one below)

★ **Choose a project template** (comes pre-filled with fields, forms/surveys, and other settings)

<small>select template</small>	Template title (sorted by title)	Template description
--------------------------------	----------------------------------	----------------------



# New features in REDCap v6.16.8 upgrade

- **Survey themes**


- **Size of survey text** – Set the survey text to a bigger font size (Normal, Large, or Very Large).
- **Font of survey text** – Set the font family of all the text displayed on the survey (Arial, Georgia, Tahoma, and more).
- **Survey theme** – Set the color scheme for the survey.
- **A “survey design preview” box** is displayed on the Survey Settings page so that the user can see how their survey design choices will make their survey look to respondents.
- **Create institution-specific themes:** Work with REDCap administrators



# New features in REDCap v6.16.8 upgrade

**Survey Design Options:**


Copy design to other surveys

**Logo**  
(Optional: display an image above the survey title)

Add new logo:  


Choose File

No file chosen  
(Images wider than 600 pixels will be downsized to fit page.)  
☐ If using a logo, hide survey title on survey page?


**Use enhanced radio buttons and checkboxes?**  
(Includes Yes/No and True/False fields)

Standard radios and checkboxes


Show example

**Size of survey text**

Normal

**Font of survey text**

Arial

**Survey theme**

Forest Green

Customize

Survey design preview (sample survey):

Expand

This is the survey title

Your survey instructions will go here. The instructions can tell your survey participant about the purpose of the survey, as well as what to expect once they have completed the survey. Below is a listing of various question types that might be displayed on your survey.

This is a section header to divide the survey page into sections.


What is your first name?




# New features in REDCap v6.16.8 upgrade

- **Enhanced radio buttons and checkboxes for surveys**
  - Radio buttons and checkboxes are displayed differently on the survey page, in which they appear as large animated buttons that look more modern and stylish than traditional radios and checkboxes.

Standard

Pre-screen date:	<input type="text" value="09-28-2016"/>  <input type="button" value="Today"/> M-D-Y
Enter your age in years:	<input type="text" value="35"/>
Gender:	<input type="radio"/> Female <input checked="" type="radio"/> Male
Indicate all of the days that are you available:	<input type="checkbox"/> Sunday <input checked="" type="checkbox"/> Monday <input type="checkbox"/> Tuesday <input checked="" type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input checked="" type="checkbox"/> Friday <input type="checkbox"/> Saturday
<input type="button" value="Submit"/>	

Enhanced


Pre-screen date:	<input type="text" value="09-28-2016"/>  <input type="button" value="Today"/> M-D-Y
Enter your age in years:	<input type="text" value="35"/>
Gender:	<input type="button" value="Female"/> <input checked="" type="button" value="Male"/>
Indicate all of the days that are you available:	<div><input type="button" value="+"/> Sunday</div> <div><input checked="" type="button" value="Monday"/></div> <div><input type="button" value="+"/> Tuesday</div> <div><input checked="" type="button" value="Wednesday"/></div> <div><input type="button" value="+"/> Thursday</div> <div><input checked="" type="button" value="Friday"/></div> <div><input type="button" value="+"/> Saturday</div>
<input type="button" value="Submit"/>	





# New features in REDCap v6.16.8 upgrade

- Live Filters for reports and exports
  - Reports can have up to 3 fields that can be designated as a Live Filter.
  - During export, use can choose to apply the currently selected Live Filter to the report when exporting.

 <b>Live Filters (optional)</b>	Live Filters can be selected on the report page for dynamically filtering data in real time. Only multiple choice fields can be used as Live Filters (as well as Events, if longitudinal, and Data Access Groups, if any exist).
Live Filter 1	gender "Gender" ▼
Live Filter 2	fever "4. In the last week, has the child had f ▼
Live Filter 3	cough "5. In the last week, has the child had ▼

## Data Exports, Reports, and Stats

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

[+ Create New Report](#) [My Reports & Exports](#) [Other Export Options](#) [View Report: Participant Listing](#)

Number of results returned: 48

Total number of records queried: 197

(\*records = total available data across all designated events)

[Stats & Charts](#) [Export Report](#) [Print Page](#) [Edit Report](#)


Live filters: [Gender](#) ▼ [4. In the last week, ha](#) ▼ [5. In the last week, ha](#) ▼

## Participant Listing

Child ID (childid)	Event Name (redcap_event_name)	First Name (firstname)	Last Name (lastname)	Mother full name (momname)	Father full name (dadname)	Street, City, State, ZIP (address)	Gender (gender)	Date of Birth (dob)	Complete? (child_info_complete)	Mother Interview Visit Date (m_visitdate)	1. Are you currently married and living with your spouse? (maritalstat)
<a href="#">150131</a>	Baseline Visit	Xanthus	Hubbard	Brooke Hubbard	Ralph Hubbard	2364 Orcl. St.	2 - Male (2)	09-27-2002	Complete (2)		

# New features in REDCap v6.16.8 upgrade

- Live Filters for reports and exports
  - Reports can have up to 3 fields that can be designated as a Live Filter.
  - During export, use can choose to apply the currently selected Live Filter to the report when exporting.

 <b>Live Filters (optional)</b>	Live Filters can be selected on the report page for dynamically filtering data in real time. Only multiple choice fields can be used as Live Filters (as well as Events, if longitudinal, and Data Access Groups, if any exist).
Live Filter 1	gender "Gender" ▼
Live Filter 2	fever "4. In the last week, has the child had f ▼
Live Filter 3	cough "5. In the last week, has the child had ▼

## Data Exports, Reports, and Stats

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[Stats & Charts](#) [Export Report](#) [Print Page](#) [Edit Report](#)

Live filters: [Gender](#) ▼ [4. In the last week, ha](#) ▼ [5. In the last week, ha](#) ▼






## Participant Listing

Child ID (childid)	Event Name (redcap_event_name)	First Name (firstname)	Last Name (lastname)	Mother full name (momname)	Father full name (dadname)	Street, City, State, ZIP (address)	Gender (gender)	Date of Birth (dob)	Complete? (child_info_complete)	Mother Interview Visit Date (m_visitdate)	1. Are you currently married and living with your spouse? (maritalstat)
<a href="#">150131</a>	Baseline Visit	Xanthus	Hubbard	Brooke Hubbard	Ralph Hubbard	2364 Orcl. St.	2 - Male (2)	09-27-2002	Complete (2)		

# New features in REDCap v6.16.8 upgrade

- **Project Folders**

- Project Folders are a way for users to organize the projects on their My Projects page by putting them into groups. The folder can be given a name and can be color-coded (by setting a text color and background color) so that it displays boldly in the My Projects page.

My Projects					
 Organize		Filter projects by title			
Project Title	Records	Fields	Instruments	Type	Status
 <b>My Surveys</b> (2)					
Test Survey (Andre)	6	19	1 form 2 surveys		
Demo Test Survey	3	24	2 surveys		
 <b>My Studies</b> (4)					
Presentation Demo Database 3	36	184	3 forms 1 survey		
Test Database (randomization 2)	4	9	1 form		
Demo Project - Longitudinal project	100	46	3 forms		
Intro to Data Management 2015-16 T4 Demo (master)	7	147	4 forms 1 survey		



# New features in REDCap v6.16.8 upgrade

- **API Playground**

- Interface that allows experimentation with the REDCap API without actually writing any code.

## API Playground

The API Playground is an interface that allows experimentation with the REDCap API without actually writing any code. You can explore different API methods and their various options to customize a given API request. You may even execute a real API request and see the response that REDCap returns from the request. If you are interested in creating an API script, the section at the bottom will provide code for various programming languages to give you a head start. For details on the capabilities of the REDCap API and how to use it, please see the [REDCap API documentation](#).

Select an API method from the drop-down list below, after which it will load any other options that are specific to that method.

API Method:

Format:

Type:

Records:

Fields:

Forms:

Events:

Raw Labels:

Raw Headers:

Checkbox Labels:

Survey Fields:

Data Access Groups:

Filter Logic:

Errors:

## Raw Request Parameters

Displayed in the box below are all the POST parameters that would be sent in the API request based on the selections above.

```
token: [REDACTED]
content: record
format: json
type: flat
rawOrLabel: raw
rawOrLabelHeaders: raw
exportCheckboxLabel: false
```

## Response

Click the Execute Request button to execute a real API request, and it will display the API response in a text box below.

Displayed in the box below is the code you would use to execute this API request in the selected programming language.

```
<?php
$data = array(
    'token' => '[REDACTED]',
    'content' => 'record',
    'format' => 'json',
    'type' => 'flat',
    'rawOrLabel' => 'raw',
    'rawOrLabelHeaders' => 'raw',
    'exportCheckboxLabel' => 'false',
    'exportSurveyFields' => 'false',
    'exportDataAccessGroups' => 'false',
    'returnFormat' => 'json'
);
```



# New features in REDCap v6.16.8 upgrade

- **Server-side field validation**

- Currently, **client-side field validation** is performed
- REDCap will now also perform **server-side validation** to validate all submitted values prior to saving them to ensure they are valid values.
- If invalid values, then the value will not be saved, and the page will be reloaded with an error message (similar to the Required Fields error message) informing the user that invalid values were entered and should thus be corrected, if desired. **This new server-side validation improves the overall quality of data being entered on surveys and forms.**



# Coming soon..

- One-to-many data
  - No longer need to set up structure ahead of time
  - Repeat fields, forms and events on the fly
- Mobile app dashboard
- Better data exploration options
- Request tracking
- Electronic new project requests



Questions?

*Thank you!*



# REDCap Resources

- **REDCap Consortium Site**  
<http://project-redcap.org/>
- **Johns Hopkins Biostatistics Center**  
Bloomberg School of Public Health  
615 N. Wolfe St., Room E3141  
Baltimore, MD 21205  
Office: (410) 614-2661  
<http://www.jhsph.edu/JHBC>
- **Andre Hackman**  
Faculty Research Associate, Biostatistics Center  
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