



Data Import/Export and Reports

Managing data in REDCap

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Introduction and Learning Objective

- Understand instrument-level data viewing and export rights
- Learn how to set up a custom data report in REDCap with filters
- Understand how to export data to statistical packages
- Know how to import data to a REDCap project
- Learn what an Application Programming Interface (API) is



Instrument Level Data Viewing and Export Rights



Instrument-level Data Export Rights

Options for data export rights for EACH data collection instrument:

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 Right				rt Rights			
	No Access (Hidden)	Read Only	View & Edit	Edit survey responses	No Access	De- Identified*	Remove All Identifier Fields	Full Data Set
Demographics	۲	0	0		0	۲	0	0
Age Screener	0	0	۲		0	0	0	۲
Preliminary Screen (survey)	0	0	۲		0	0	0	0
Outcome of Preliminary Screen	0	\bigcirc	۲		0	0	0	0
Medical History (survey)	0	\bigcirc	۲		0	0	0	0

→Match a user's Data Exports Rights with their Data Viewing Rights!

→ Granular control
 of who can export
 data from your
 project.



Instrument-level Data Viewing and Export Rights



Where is my new instrument?



Production Project:

- When adding a new form to a project *that's been put into production,* no users will initially have access to data viewing and data export rights for that new instrument.
- Remember to give you AND your users rights to the new instrument after the production changes have been approved.





Questions?



Reports



Data Exports, Reports, and Stats



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

My Reports & Exports View/Export Options Report name All data (all records and fields) А **Q** View Report Export Data Le Stats & Charts Selected instruments and/or events В Make custom selections (all records) **Q** View Report Export Data Demographics Le Stats & Charts 1 + Create New Report

Application

- Alerts & Notifications
- 🛗 Calendar
- Data Exports, Reports, and Stats
- Data Import Tool
- 🗲 Data Comparison Tool
- 📕 Logging
- Eield Comment Log.



Reports

/ Rep	orts & Exports	
	Report name	View/Export Options
A 0	All data (all records and fields) Good for exporting all data Not good for projects with lots of data, events	Q View Report Export Data Extract & Charts Select one or more instruments/events below for all records. Instruments All instruments Screening Form Study Visit Form Blood Draw Form Day 1 Task
в	Selected instruments and/or events (all records)	Events All events
0	Good for selecting subset of instruments and/or events	Flu Clinic Day 1 Day 2-4 Blood Draw Day 7 Blood Draw
0	Good for further refinement	Q View Report Export Data E Stats & Charts - OR - + Create report based on the selections above



How to create custom reports



Custom Reports Step 1: Naming and Access

Name of Report:	Participants who have completed the study					
Set as "public":	abling this feature below will auto-generate a public link for viewing the report without needing to log in to REDCap. Report is publicly viewable by anyone with the public link					
	Paragraph \checkmark \blacksquare I \checkmark \checkmark \blacksquare					
Description (optional): Displayed on page below report name						

STEP 1		
2+ User Access: Choose who can edit and view this report		
View Access: Choose who sees this report on their left-hand p	project menu ?	
OAll users - OR - Octom user access (Users in ANY grou	ups selected below will have acce	ess)
Selected users	Selected user roles	Selected DAGs
	Data Management A Site Teams	Rush A Test TJU UCLA V
View a list of users who will have access to the	his report based on the selection	s above: View user access list
C Edit Access: Choose who can edit, copy, or delete this report (requires user to have 'Add/I	Edit/Organize Reports' privileges)
O All users - OR - Ocustom user access (Users in ANY grou	ups selected below will have acce	ess)
Selected users	Selected user roles	Selected DAGs
	Data Management A Site Teams	Rush A Test TJU UCLA V
View a list of users who will have access to the	his report based on the selection	s above: View user access list



Custom Reports Step 2: Field Selection



Three ways to select fields to include in the report:

- Dropdown
- By instrument
- Quick Add

To quickly add or remove fields for this report, check or uncheck their associated checkbox below. The fields will *automatically* be added/removed from the report as you check/uncheck them. The fields will be added to the end of the report as they are checked.

	Screening Form (<u>Select All</u> / <u>Deselect All</u>)
✓	id "Participant ID code"
	screendate "Date of screening"
	intid_scr "Interviewer ID"
	inc_consent "Able to understand and provide informe
	inc_health "In general good health as determined by t
	inc_agegroup "Either 21-40 years old or 65 years and

Total fields selected: 1

Close



Custom Reports Step 2: Field Selection....options

Additional report options (optional)

Include the Data Access Group name for each record (if record is in a group)?

Include the survey identifier field and survey timestamp field(s)?

Combine checkbox options into single column of only the checked-off options (will be formatted as a text field when exported to stats packages)

Include the repeating instance fields (redcap_repeat_instrument, redcap_repeat_instance) in the report and data export?

Remove line breaks/carriage returns from all text data values (only applicable for CSV Raw and CSV Label data exports)

In the report header, display the field label, variable, or both (not applicable for exports)? Both

In the report's data, display the field label, raw data value, or both for multiple choice fields (not applicable for exports)? Both



×

Custom Reports Step 3: Filters for Classic projects

Example 1: **Classic** project (non-longitudinal)

- 1. Data arranged by records, with <u>one row per record</u>.
- 2. Choose the field and specify the operator and value for the first filter.
- 3. Select And/Or for the next filter
- 4. Choose field and specify the operator and value for the next filter

STEP 3							
Show data for all re	peating instruments/events for each	record ret	urned ?		How to us	se filters and AND/OR	t logic
Filters (optional)			Operator	/ Valu	ue		
Filter 1	consent_form_complete "Complete?"		=	~	Complete	•	×
AND 🗸							
Filter 2	part_9_survey_completion_complete "		=	~	Complete	✓	×
AND 🗸							
Filter 3	select a field			~			
Switch format: Use	advanced logic		TIP: Use [X-instance] Smart Variables Show only repeating instance datas Show only the first repeating instance instance] = [first-instance] 	s to filt : [curre nce: [c	er repeating data ent-instance] <> urrent-instance]	a. "" <> "" and [current-	



Custom Reports Step 3: Filters for Longitudinal projects

Example 2: Longitudinal project

- 1. Data arranged by events, with <u>one row per event</u>.
- 2. Choose the *event and the field* before specifying the operator and value for the first filter.
- 3. Optional: use advanced logic to set up more complex filters

STEP 3						
Show data fo	r all events for each record returned ?			6	How to use filters and	d AND/OR logic
Filters (optio	nal)		Operator / Val	ue		
Filtor 1	consent "Did participant consent?"		- *	Yes 🗸		×
riter	in Flu Clinic	~				
AND	•					
Filtor	random_group "Randomization Group		- *	High dos	e quadrival 🐱	~
Filter	in Flu Clinic	~				Ŷ
AND .	•					
Filtor	day1_dt "Visit date"		not = 🗸 🗸		31 M-D-Y	~
Filter	in Day 1	~				Ŷ
AND	•					
Eller d	Type variable name or field label		= *			
Filter	in All events	~				
🖉 Switch forma	t: <u>Use advanced logic</u>					



Custom Reports Step 3: Filters for Longitudinal projects





Custom Reports Step 3: Filters for Longitudinal projects

STEP 3

🗹 Show data for all events or repeating instruments for each record returned 💽

Participant ID code	Event Name redcap_event_name	Date of screening screendate	Did participant consent?	Sex at Birth dem_sex	Randomization Group	Visit date day1_dt
<u>15</u>	Flu Clinic	01-30-2022	Yes (1)	Female (0)	High dose quadrivalent (1)	
<u>15</u>	Day 1					06-30-2022
<u>15</u>	Day 2-4 Blood Draw					

STEP 3

🗌 Show data for all events or repeating instruments for each record returned 💽

Participant ID code	Event Name redcap_event_name	Date of screening screendate	Did participant consent?	Sex at Birth dem_sex	Randomization Group	Visit date day1_dt
<u>15</u>	Flu Clinic	01-30-2022	Yes (1)	Female (0)	High dose quadrivalent (1)	
<u>15</u>	Day 1					06-30-2022



Custom Reports Step 3: Filters for Repeating forms

Repeating form:

- 1. Use [X-instance] Smart Variables to filter repeating data
- Show only the last repeating instance:
 [current-instance] = [last-instance]
- 3. Show only repeating instance data: [current-instance] <> ""
- Example: Include only last instance of call log in the report





Custom Reports Step 3: Filters for Repeating forms

Filter=[current-instance]=[last-instance]

Record ID	Repeat Instrument redcap_repeat_instrument	Repeat Instance redcap_repeat_instance	Contact Attempt Date cont_dt	Contact Method cont_method	Outcome
<u>1</u>					
1	Outreach Log	3	02-13-2024	Phone call (1)	Voicemail full (3)
2					
<u>3</u>					
4					
<u>5</u>					
<u>6</u>					
<u>6</u>	Outreach Log	2	11-29-2023	Phone call (1)	Left VM (2)

Filter=[current-instance]=[last-instance] and [current-instance]<> ""

Repeat Instrument	Repeat Instance + redcap_repeat_instance	Contact Attempt Date cont_dt	Contact Method cont_method	Outcome
Outreach Log	3	02-13-2024	Phone call (1)	Voicemail full (3)
Outreach Log	2	11-29-2023	Phone call (1)	Left VM (2)
Outreach Log	1	02-06-2024	Email (2)	Sent email (6)
	Repeat Instrument redcap_repeat_instrumentOutreach LogOutreach LogOutreach LogOutreach Log	Repeat InstrumentRepeat Instance redcap_repeat_instanceOutreach Log3Outreach Log2Outreach Log1	Repeat InstrumentRepeat InstanceContact Attempt DateOutreach Log302-13-2024Outreach Log211-29-2023Outreach Log102-06-2024	Repeat InstrumentRepeat InstanceContact Attempt DateContact MethodOutreach Log302-13-2024Phone call (1)Outreach Log211-29-2023Phone call (1)Outreach Log102-06-2024Email (2)



Custom Reports: Live Filters

- Dynamically filtering data in real time
- Fields that can be used for live filters: record id, multiple choice fields, events or data access group.

Live Filters (optional)			
Live Filter 1	[Events]	~	
Live Filter 2	select a field	~	
Live Filter 3	select a field	~	



Custom Reports: Live Filters

('records' = total available data across all designated events)

Live filters: [Events] Y

\$ Subject ID subjectid	Event Name redcap_ event_ name	Date of Insomnia Severity Index isi_date	1. Difficulty falling asleep isi1	2. Difficulty staying asleep isi2	3. Problems waking up too early isi3	4. How SATISFIED/DISSATISFIED are you with your CURRENT sleep pattern? isi4	5. How NOTICEABLE to others do you think your sleep problem is in t ring the quality of your life? isi5
<u>51</u>	V 0						
<u>51</u>	V1						
<u>51</u>	V2	09-14-2020	Mild (1)	Mild (1)	Mild (1)	Moderately Satisfied (2)	Somewhat (2)
<u>51</u>	V3						
<u>51</u>	V4	01-27-2021	None (0)	Mild (1)	None (0)	Very Satisfied (0)	A Little (1)



Custom Reports: Live Filters

('records' = total available data across all designated events) Report execution time: 0 seconds Live filters: V4 🗸

Reset

Subject ID subjectid	Event Name redcap_ event_ name	Date of Insomnia Severity Index isi_date	1. Difficulty falling asleep isi1	2. Difficulty staying asleep isi2	3. Problems waking up too early isi3	4. How SATISFIED/DISSATISFIED are you with your CURRENT sleep pattern? isi4	5. How NOTICEABLE to others do you think your sleep problem is in t ring the quality of your life? isi5
<u>51</u>	V4	01-27-2021	None (0)	Mild (1)	None (0)	Very Satisfied (0)	A Little (1)
<u>231</u>	V4	05-10-2021	Moderate (2)	Moderate (2)	Moderate (2)	Satisfied (1)	Not at all Noticeable (0)



Questions?



Data Export



Data Export Formats



REDCap@Yale

Data can be exported to Excel, SAS, R, SPSS, STATA, XML.

• Options to remove identifiers from data export.

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.



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

Apply live filters?

One or more live filters have been selected on this report. Do you wish to apply the live filters to the data export, thus producing the same data set that you currently see displayed on the report?

Apply live filters selected on this report

Advanced data formatting options

Set CSV delimiter character

Set the delimiter used to separate values in the CSV data file (only valid for CSV Raw Data and CSV Labels export formats):

, (comma) - default 🛛 🗸

Force all numbers into a specified decimal format?

You may choose to force all data values containing a decimal to have a specified decimal character (comma or period/full stop). This will be applied to all calculations and numbervalidated text values in the export file.

Use fields' native decimal format (default)

NOTE: Your data formatting selections above will be remembered in the future and will be pre-selected upon your next export.

 \sim

Exporting data to statistical program

When exporting data to statistical program, REDCap will generate a syntax file and a CSV data file!

- 1. Download and save both files to a common location;
- 2. Follow the instructions on the data export page to add the location of the CSV data file to the syntax file;
- 3. Run the code to import the data to the statistical program





Data Export Files

Whenever an export is created, your export is saved in the File Repository





Stats and Charts



Stats and Charts

	Report	name						,	View/E	xpor	t Opti	ons						Gender R	efresh Plot	View as E	Bar Chart 🗸	•			
A	All da	ta (all	recor	ds an	nd fie	lds)		(💽 Vi	ew Re	eport	-	Ехро	rt Data	Stats	s & Charts)	Count (N) Missing 30 0 (0.0%	Unique						
																		Counts/frequent	c y: Male (19,	63.3%),	Female (11	, 36.7%),	Other (0, 0.0	%)	
hei	ght < 1	50																Male							
DIS Opt	ONAL OPTION	ONS tarecord f	to overlay	/ onto the	e plots be	elow				-	- select re	ecord [~					Female							
Vie	ving optior	ns: Show	w plots &	& stats	Show	/ plots o	only Sh	iow stat	s only									Other							
Hei	ght <u>Ref</u>	resh Plot																	0	5		10		15	20
Tot										F	Percentil				Gen	nder Refrest	n Plot	View as Pie Chart	~						
Cou	nt Missing	Unique	Min	Max	Mean	StDev	Sum	0.05	0.10	0.25	0.50 Median	0.75	0.90	0.95	Tota	al									
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	Cour (N)	nt Missing Un	nique								
Low	st values:	120 123 1	125 134	134											30	0 (0.0%)	2								
High	st values:	140, 143,	145, 145,	, 148											Count	nts/frequency: M	lale (19	, 63.3%), Female (11, 36.7%), <mark>O</mark>	ther (0, 0	0.0%)				
				•																					
							•	•	•									36.7%							
			•				•																		
					400					450									_	6	3.3%				
1	U	12	20		130		140	,		150															



Using Aggregate Functions in Reports



What are Aggregate Functions

[**9**] Smart Variables

Smart Variables

Name of Smart Variable	Description	Example of Usage					
Name of Smart Variable	Description	Example input	Example output				
Aggregate Functions, Charts, and Ta (also known as Smart Functions, Smart Chart	bles s. and Smart Tables)	E VIDEO: How to use	e Smart Charts, Functions, and Tables (14 min)				
[aggregate min fields : navameters]	The minimum value of a field across all records in the project (including all events	[aggregate-min:age]	13				
[aggregate-min: neids: parameters]	Multiple fields may be used and must be comma-separated.	[aggregate-min:age,participant_age,other_age]	7				
[aggregate-max : fields : parameters]	The maximum value of a field across all records in the project (including all events and/or repeating instances in all records). Multiple fields may be used and must be comma-separated.	[aggregate-max:age]	95				
[aggregate-mean : fields : parameters]	The mean/average value of a field across all records in the project (including all events and/or repeating instances in all records). Multiple fields may be used and must be comma-separated.	[aggregate-mean:age]	100.1				
[aggregate-median : fields : parameters	The median value of a field across all records in the project (including all events and/or repeating instances in all records). Multiple fields may be used and must be comma- separated.	[aggregate-median:age]	57				



Using Aggregate Functions in Report

Name of Report:	Demographic Report										
Set as "public":	nabling this feature below will auto-generate a public link for viewing the report without needing to log in to REDCap. Report is publicly viewable by anyone with the public link										
Description (optional): Displayed on page below report name	Paragraph \checkmark \blacksquare										



Using Aggregate Functions in Report

Demographic Report

Number of patients: 8

Mean age: 46.67

	Count	Missing	Unique	Min	Max	Mean	Median	StDev	Sum
Age	6	2	3	30	60	46.67	50	13.66	280
					-		🛓 E	xport tab	le (CSV)

Pecord	Event Name	\$	\$	\$	Contact Method (Check all that apply)					
ID record_id	redcap_event_ name	Age age	Gender gender	Race	Phone contact_ method1	Email contact_ method2	Mail contact_ method3			
1	Event 1	30	Female (1)	White (5)	Checked (1)	Checked (1)	Checked (1)			
2	Event 1	30	Male (2)	Black or African American (4)	Checked (1)	Checked (1)	Unchecked (0)			
<u>3</u>	Event 1	50	Female (1)	Native Hawaiian or Other Pacific Islander (3)	Checked (1)	Checked (1)	Checked (1)			
<u>4</u>	Event 1	60	Male (2)	Asian (2)	Checked (1)	Checked (1)	Checked (1)			
<u>5</u>	Event 1		Female (1)	American Indian/Alaska Native (1)	Checked (1)	Checked (1)	Checked (1)			
<u>6</u>	Event 1		Male (2)	Asian (2)	Unchecked (0)	Checked (1)	Checked (1)			
Z	Event 1	50	Female (1)	Native Hawaiian or Other Pacific Islander (3)	Checked (1)	Checked (1)	Checked (1)			
<u>8</u>	Event 1	60	Male (2)	Asian (2)	Checked (1)	Checked (1)	Checked (1)			



QUESTIONS?



Data Import

1. Download data import template from the data import page.

Applications

- Alerts & Notifications
- 🛗 Calendar
- Data Exports, Reports, and Stats
- Data Import Tool

🗲 Data Comparison Tool

- Logging
- Field Comment Log

📧 CSV import

🕑 CDISC ODM (XML) import

View background imports

Instructions:

- 1.) You may import a modified version of a CSV data export file, or you can obtain a blank CSV data import template that you can save locally and add data that you wish to import. <u>Download your Data Import Template</u>. Also download with other delimiters: <u>Semicolon (;)</u>, <u>Tab</u> (with records in row format), or alternatively download the template with records in <u>column format</u>. Also download with other delimiters: <u>Semicolon (;)</u>, <u>Tab</u>.
- 2.) Add data to the file, and save it. Be sure the Variables/Field Names are not changed or an error may occur. All multiple choice fields (e.g., dropdown, radio) must have the raw coded value (rather than the choice label) entered in those cells, or else it cannot be processed. These coded values can be found in the <u>Codebook</u>.
- 3.) Choose your upload settings below, and select the data file located on your device. Then click the 'Upload File' button to begin the upload process. The data file will be checked for errors to ensure that all the data is in the correct format before it is fully imported into the project. By default, the data will be imported in real time; however, you may choose to import the data using a background process in which you will be notified via email once your data has been successfully imported.
- TIP: If importing repeating instances for a repeating event or repeating instrument, you may <u>auto-number the instances</u> by providing a value of '**new**' for the 'redcap_repeat_instance' field in the dataset you are importing. This is useful because it allows you to import such data without the need to determine how many instances already exist for a given repeating event/instance prior to the import.



2. Insert the data for each record that you wish to import into the template. Once all your data has been added, save the file.

> \rightarrow All multiple-choice fields (e.g., dropdown, radio) must have the raw coded value (rather than the choice label)

 \rightarrow Checkbox fields



- 3. Delete any empty columns or rows to save processing time.
- 4. Follow the instructions to upload the file.

-🗗 Choose an import option	Import in real time V
Select your CSV data file	Choose File No file chosen
l Display the data comparison table?	Yes, display uploaded data prior to importing \checkmark ?
↓ ‡ Auto-number/overwrite record IDs?	No, use the record name provided V
• Overwrite data with blank values?	No, ignore blank values in the file
差 File format settings	
CSV delimiter of data file:	Comma (,) 🗸 🗸
Format for date/datetime values:	MM/DD/YYYY or YYYY-MM-DD V
Records in file are formatted as	Rows ~
🗥 Upload File	



New Feature: Import as background process

- Useful for larger files but will take longer to import.
- You will receive an email once the import is completed.
- If errors occur, you can view them and re-download the data that failed to import and fix the errors.

		-🗗 Choose an import	option	Import as backgroun	d process (better	for large data	sets) 🗸 ?		
SV im	iport 🛛 📴 CDI	SC ODM (XML) import	View backgro	und imports				-	
Show 25 ~	entries		A		Search		C Refresh table		
♥ Status	() Upload Tim	e 🕓 Completion T	ime 🗋 Origin	al Filename 🛛	ବ ଓ Uploader	Records Provided	Records Imported	Total Import Time	Errors
								(minutes)	
II Queued	03-03-2025 09:5	2	LANTERN: 01-31_095	Study_DATA_2025- j 57.csv	rt52	1294	0	(minutes) < 1	0 Halt import



5. Once the file is uploaded, the data will be displayed and checked for errors before it is imported.

O Your document was uploaded successfully and is ready for review.

You are now required to view the Data Display Table below to approve all the data before it is officially imported into the project. Follow the instructions below.



Instructions for Data Review

The data you uploaded from the file is displayed in the Data Display Table below. Please inspect it carefully to ensure that it is all correct. After reviewing it, click the 'Import Data' button at the bottom of this page to import this data into the project.

KEY for Data Display Table below
Black text = New Data
Gray text = Existing data (will not change)
(Red text) = Data that will be overwritten

DATA DISPLAY TABLE										
record_id	redcap_event_name	subjectid	sex	phone						
6 (new record)	event_1_arm_1	700	1	(203) 777-7777						



Do you wish to import the new data (displayed above) into the project? (Click the button below to import the data.)



Cancel



Data Import: Longitudinal Projects

Longitudinal projects

- Must include 'redcap_event_name' field in your data import file. A list of unique event names can be found on the define my event page.
- redcap_event_name can be found on the 'Define My Events' page

		Event #	Da Of	ays fset	Offse Rang Min / M	et ge Max	Event Nar	ne	Custom Event Label 😡 (optional)	Unique event name 😡 (auto-generated)
Define My Events	/ X	1		1	-0/+	0 Event 1				event_1_arm_1
	Ø 🗙	2		2	-0/+	0 Event 2	Event 2			event_2_arm_1
	0 ×	3		3	-0/+	0 Event3				event3_arm_1
A 1 record_id 2	redo nam	B cap_even ne nt_1_arm	t_ 1_1	C	50	D screening _sex 2	E race	F test_date1 3/18/2020	G test_form_ complete	- 2



Data Import: Repeating forms

Repeating forms

- Must include 'redcap_repeat_instrument' and 'redcap_repeat_instance' fields in the import file.
- Repeat instrument name can be found in the codebook and the repeat instance is the instance number of your data.





Data Import: Repeating forms

If importing repeating instances for a repeating event or repeating instrument, you may autonumber the instances by providing a value of 'new' for the 'redcap_repeat_instance' field in the dataset you are importing.

 This is useful because it allows you to import such data without the need to determine how many instances already exist for a given repeating event/instance prior to the import.



Data Import: Data Access Groups

Data Access Groups

When importing new record, you can assign data access groups to your records. Include the 'redcap_data_access_group' field with your data import. A list of data access group names can be found on the data access group page.

	Da	ata Access (Groups	Us	ers in group		Nui rec	mber of ords in roup	Uni (au	que group na to-generated)	me 😡	Gro num	up ID ber 😡	Delete group?
AGS DAGS	te	st1						1	tes	t1		22	292	×
	te	st2						1	tes	t2		22	293	×
		А	В		С	D		E	1	F		G		H
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QUESTIONS?



REDCap API (Application Programming Interface)

- REDCap API is an interface that allows external applications to connect to REDCap remotely
- Can be used for automated data imports/exports from a specified REDCap project
- API Token
 - Rather than using username/passwords, the REDCap API uses tokens as a means of secure authentication.
 - A token must be included in every API request.
 - Each user will have a different token for each REDCap project to which they have access.
 - Enable API Export/Import rights before requesting API token.

D API	API Export
What is the REDCap API?	API Import/Update



REDCap API: API Playground

The API playground is an interface that lets you experiment with the REDCap API without writing code.

Applications



API and API Playground

L. REDCap Mobile App

- You can explore all the different API methods and their various options to customize a given API request

- You may even execute a real API request and see the exact response that REDCap returns from the request

- Example codes can be downloaded from API documentation page



Resources on REDCap@Yale Website

https://portal.redcap.yale.edu/resources/frequently-asked-questions



HOME GET HELP ABOUT US RESOURCES CONTACT US

HOME > RESOURCES > FAQS

Frequently Asked Questions

Features-Advanced

- Alerts and Notifications
- API

What is REDCap API? How do I set up an API to export data to SAS? How do I set up an API to export data to R? How do I request an API Token?



QUESTIONS?



Thank You!

Further Questions: Contact us at REDCap@yale.edu



Extra Slides



Other Export Options

- Export entire project as REDCap XML file (containing metadata & data)
- ZIP file of uploaded files (all records)
- PDF of data collection instruments containing saved data (all records)



Below are some additional export options that are available for your project. Instructions for each type of export are provided. You may click the corresponding icon on the right to download the file for each.

Export entire project as REDCap XML file (containing metadata & data)

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.

ZIP file of uploaded files (all records)

Uploaded files for all records in this project may be downloaded in a single ZIP file. This file contains any files uploaded for 'File Upload' fields/questions on a survey or data entry form. The ZIP file will contain a folder of all the files organized by record name and variable/field name and also contains an index.html file that serves as a table of contents for all the files. After downloading the ZIP file, extract all the files/folders to a directory on your local computer, after which you may double-click the index.html file inside to view a listing of the files using your web browser, or you may view the files directly by looking in the 'documents' folder. Click the icon to the right to begin downloading the ZIP file.

Note: If your project has a large amount of 'File Upload' fields/questions or records/responses, the resulting ZIP file may be very large in file size. Please be patient if the file takes time to download.

PDF of data collection instruments containing saved data (all records)

The data for all records in this project may be downloaded in a single PDF file. This file contains the actual page format as you would see it on the data entry page or survey and includes all data for all records for all data collection instruments. Click the icon to the right to begin downloading the file. Also, you may optionally click the Compact option to download a PDF that excludes fields that have no data saved and excludes unselected multiple choice options. (Note: Section headers and descriptive fields will still be included.)

Note: If your project has a large amount of fields/questions or records/responses, the resulting PDF file may be very large both in file size and in page length. Please be patient if the file takes time to



REDCap XML

ZIP