



Data Entry on Redcap: User Guide

Table of Contents



- 1. <u>Introduction 3</u>
- 2. User Accounts 4
- 3. <u>Logging into REDCap 5</u>
- 4. Accessing your Project 6
- 5. Organisation of SPRINT-SARI Tiers on REDCap 7
- 6. <u>Data Collection Panel 9</u>
- 7. <u>Data Entry Steps 10</u>
- 8. Data Entry Fields 13
- 9. <u>Using Repeating Instruments (forms) 14</u>
- 10. Record Status Dashboard ..19
- 11. Completing Records ..20
- 12. Accessing your Data ..21
- 13. REDCap Messenger 23
- 14. Accessing REDCap on Mobile ..24
- 15. Additional information25

Introduction

Welcome to REDCap!

REDCap is a secure, web-based application for managing your clinical data.

REDCap structure and terminology

REDCap is a database application that provides access on a project-by-project basis as determined by the project administrator. Each project may have many users. Users will only see projects listed in their My Projects page for which they have access.

Data Instrument – a form created for the purposes of capturing data such as a data entry form or survey. Record – a complete set of information for a person or object. Each record is composed of one or more fields.

Study ID – a unique key that can identify each record in the database

Event – a scheduled or unscheduled occurrence for which data is captured using a predefined data instrument (form).

Form Status – status of the form completeness and denoted with a color;

red – incomplete; **yellow** – unverified; **green** – complete.

User Account

User Accounts

Access to the REDCap application is controlled via individual user accounts

URL

https://redcap.medsci.ox.ac.uk

Passwords

When your account is created you will receive an email containing login details

- ☐ Username
- ☐ Temporary password

You will be required to set your own password when you log in for the first time.

^{*}REDCap passwords must meet the following criteria: Length between 10 and 15 characters Comprised of only letters, numbers, and underscores Contains at least one lower-case letter, one upper-case letter, and one number You will also be asked to set a challenge question and answer that can be used to assist you should you forget your password. If all else fails contact the Project manager to obtain a new temporary password.



Logging Into REDCap

Open a browser (Google Chrome recommended) and enter the following URL in the address line: https://redcap.medsci.ox.ac.uk Enter your username and password provided to you when you were given access to REDCap as seen in Figure 1.

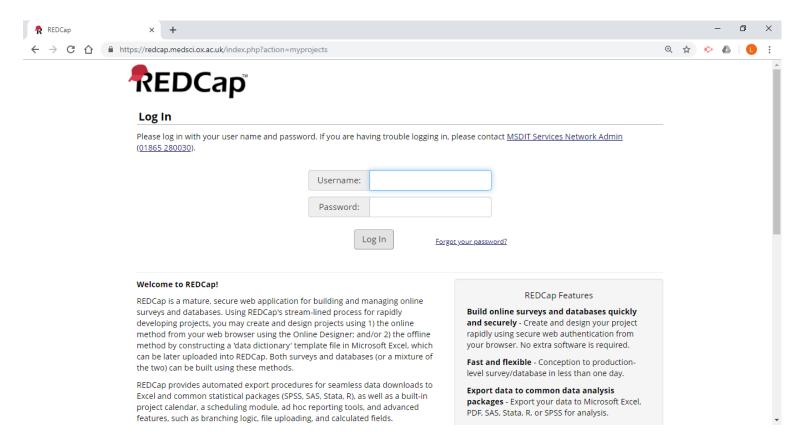


Figure 1

Accessing Your Project

From the REDCap Home Screen select the My Projects tab to see a list of projects you are authorized to access (*Figure 2*). Click on the link to the database for which you will be entering data. The screen displays database information (*Figure 3*).

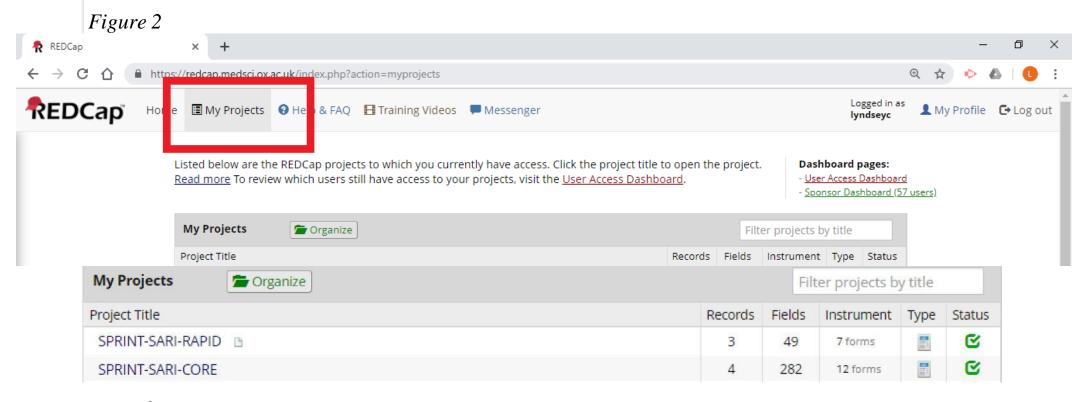


Figure 3



Organisation of SPRINT-SARI Tiers in REDCap

The tiers are organized as data collection instruments (forms) as shown in *figure 4*. The forms correspond to the different sections under the RAPID and CORE case report forms.

Tier 0		Tier 1 and 2					
Inclusion Criteria	SSIC	Irlain Citria			SSIC		
Demographics	RAPID	Demographics		ographics			CORE
Onset and Admission	RAPID	Onetril\thisin		CORE			
ICU/HDU Admission	RAPID	ICU/HDU Admission		CORE			
		Admission Signs and Symptoms			CORE		
		Comorbidities			CORE		
		Complications			CORE		
Infectious Respiratory Diagnosis	RAPID	Infectious Respiratory Disease: l	Diagnosis		CORE		
		Infectious Respiratory Disease: Pathogen Testing repeating			CORE		
Telest	RAPID	Total			CORE		
		Daily Treatment	Repeating Repeating	Daily	Form		
	- 20	Daily Laboratory Results		Daily	Form		
Outcome	RAPID	Owe		*	CORE		
Figure 4							

Navigation Panel

Use the My Projects tab on the Navigation panel (*Figure 5*) to switch between RAPID (Tier 0) and CORE (Tier 1 and 2) projects.

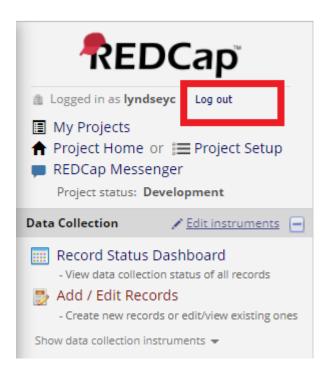
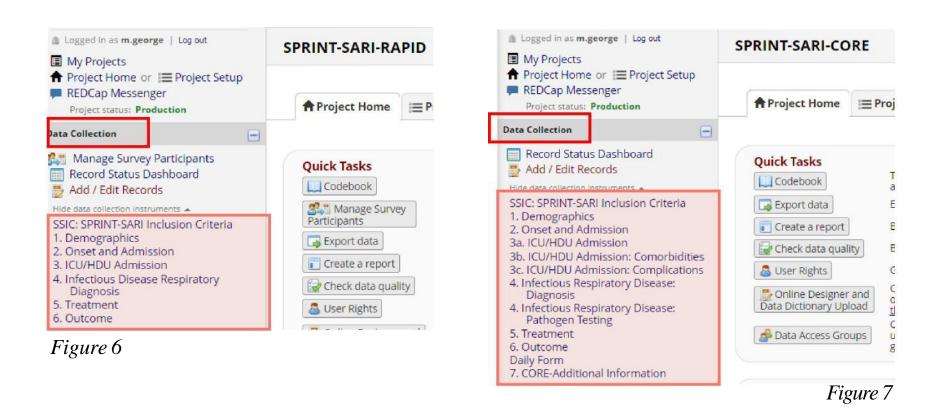


Figure 5

Always log out using the Log out button after completing your tasks. Your session will time out after 60 minutes of inactivity, requiring you to log in again to continue.

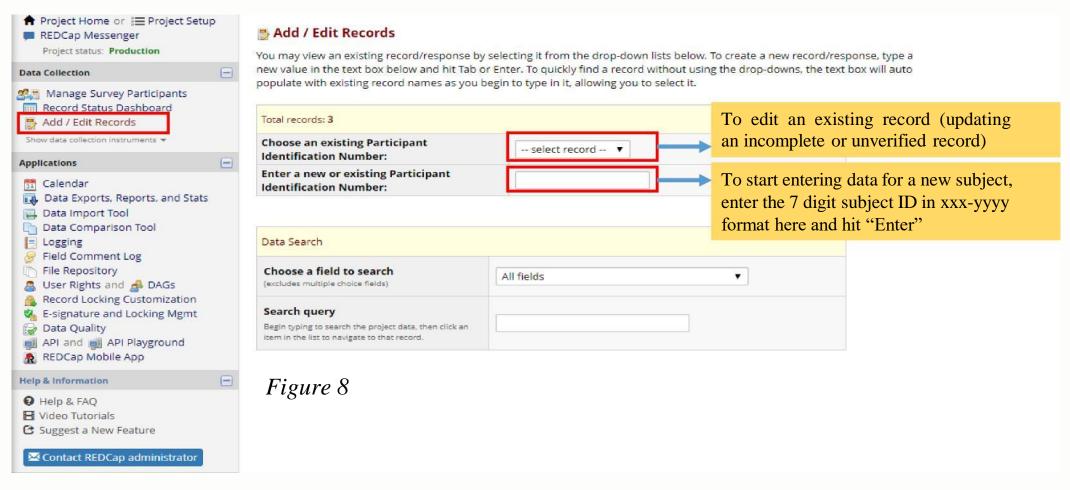
Data Collection Panel

You can view and access the data instruments (forms) for CORE and RAPID in the respective data collection panel. (*Figure 6 and 7*).



Data Entry: Step 1

In the left column, choose 'Add or Edit records' from the Data Collection section to begin your data entry process. This will take you to a grid display of data instrument (*Figure 9 and 10*).





REDCap°

Click on the status icon to access the particular instrument (form). Selecting SSIC form for RAPID

and CORE are shown in Figure 9 and 10.



Figure 9

TreatmentOutcome

Demographics
 Onset and Admission

3. ICU/HDU Admission

4. Infectious Disease Respiratory Diagnosis

SPRINT-SARI-CORE

Record Home Page

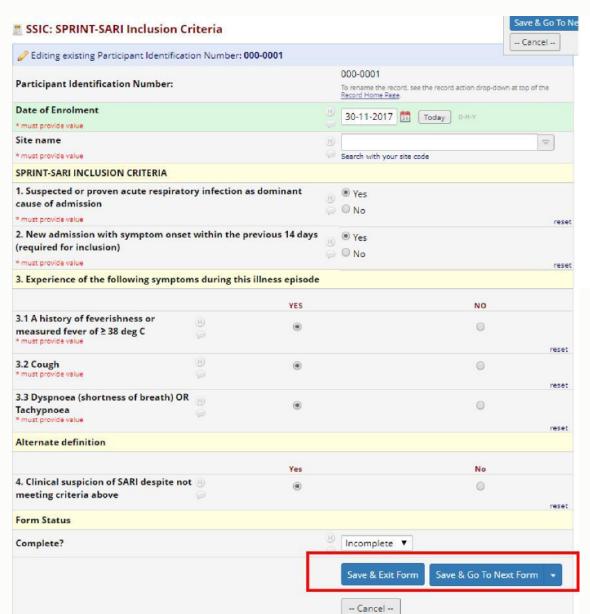
Record "000-0005" is a new Participant Identification Number:. To crea gray status icon below.

The grid below displays the form-by-form progress of data entered for the currently selected record. You may click on the colored status icons to access that form/event.

NEW Participant Identification Number: 000-0005

Data Collection Instrument	Status
SSIC: SPRINT-SARI Inclusion Criteria	0
1. Demographics	0.
2. Onset and Admission	2
3a. ICU/HDU Admission	0 /
3b. ICU/HDU Admission: Comorbidities	
3c. ICU/HDU Admission: Complications	
4. Infectious Respiratory Disease: Diagnosis	
4. Infectious Respiratory Disease: Pathogen Testing	0
5. Treatment	
6. Outcome	
Daily Form	
7. CORE-Additional Information	

Figure 10





Data Entry: Step 3

Once you have completed entering the information, you MUST click one of the save option buttons at the bottom of the screen (*Figure 11*). The Form Status section will allow you to identify if the record is Incomplete, Unverified or Complete.

Save & Exit Form

saves the data and returns to the record selection screen for the current form.

Save & Go To Next Form 🔻

saves and navigates to the next form on the list for the study ID.

-- Cancel --

leaves the current screen and DOES NOT SAVE the changes you made. If you enter data in a form, then navigate to a different record by clicking on form text or button without clicking on one of the "Save" buttons, the data you entered will be lost. There is no warning message on screen when you leave without saving data.

Figure 11



Data Entry Fields

Figure 11 illustrates an example of a data entry form. The data type for each field determines the appearance of the field. There are 3 major field types used in the SPRINT-SARI projects in REDCap including text boxes, radio buttons and drop down lists (select only one answer), check box lists (select all answers that apply).

Field Notes: Some fields have a field note, shown in small blue type below the data field. These notes provide field-specific information to help the person entering data.



Validation: If a field has validation associated it with you may see a warning or error message indicating that the value you entered does not match requirements set up for the field. REDCap will not prevent you from continuing, but it will alert you to a value that is outside the pre-defined acceptable range.



Repeating Instruments

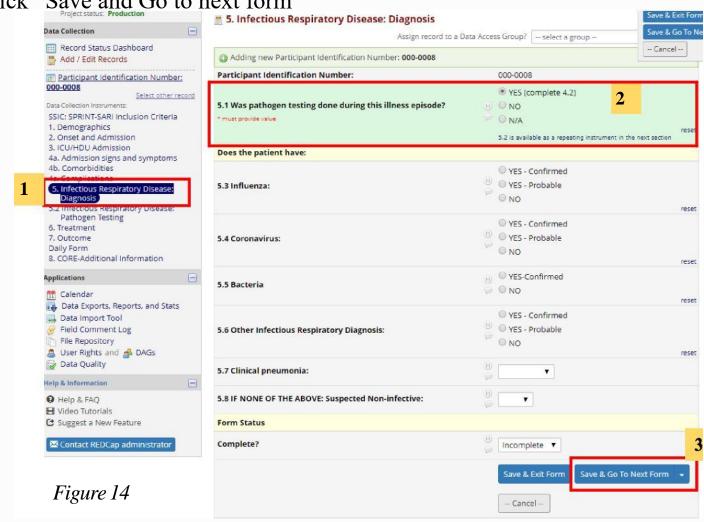
Repeating instruments are used to collect multiple instances of the same data. In SPRINT-SARI repeating instruments have been enabled for the following instruments (forms) in the SPRINT-SARI CORE project.

Infectious Respiratory Disease: Pathogen Testing
Daily Treatment
Daily Laboratory Results

CORE
Daily
Form

Creating and Editing Repeat Instances – Infectious Respiratory Disease: Pathogen Testing

Step 1: Click "yes" to Q 5.1 in the <u>Infectious Respiratory Disease Diagnosis Section</u>, then click "Save and Go to next form'



Creating and Editing Repeat Instances – Infectious Respiratory Disease: Pathogen Testing

Step 2: Complete any of the data fields under the Step 3: A dropdown box will now appear in this Infectious Respiratory Disease Pathogen testing section for the particular patient record. You can add Section, then click on any of the two "Save" buttons any number of instances using this dropdown box.

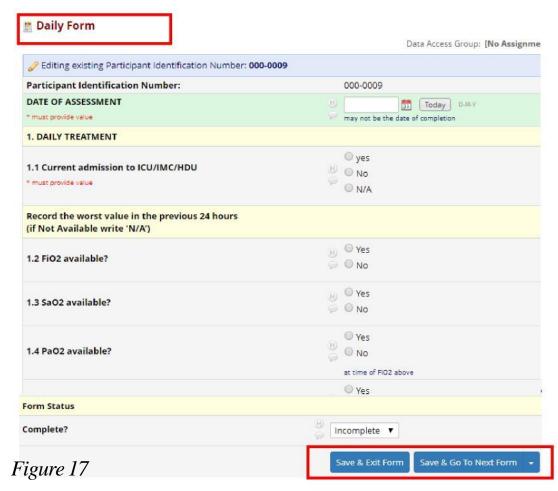
5.2 Infectious Respiratory Disease: Pathogen Testing		Save & Exit Form	📱 5.2 Infectious Pospiratory Disease: Pathogen Testin	Save & Exi	
Ø Editing existing Participant Identification Number: 001-0001		Save & Go To Next Form ▼	Current in stance:	Save & Go Cancel	_
Participant Identification Number:	001-0001	Cancel	Ø Editing existir		
5.2 PATHOGEN TESTING: Details of pathogen testing and sample type (This is a repeating instrument, include as many as necessary)	e		Particip int Iden + Add new iber: 5.2 PATHOGEN TESTING: Details of pathogen testing and sample to	001-0001	
Collection Date * must provide value	Today D-M-Y		(This is a repeating instrument, include as many as necessary) Collection Date		
Bio specimen type * must provide value	B	~	* must provide value Bio specimen type	15-05-2019 Today D-M-Y	
esult	O Positive		* must provide value	Throat swab	
	○ Negative ○ N/A		Laboratory Test Method * must provide value	PCR V	
Pathogen Tested / Detected * must provide value	H	reset	Result * must provide value	Positive Negative N/A	reset
Form Status			Pathogen Tested / Detected	H	CSCC
Complete?	∏ Incomplete ∨		* must provide value Form Status		
	Save & Exit Form Save & Go To N	lext Form 🕶	Complete?	⊞ Incomplete ✓	
	Cancel			Save & Exit Form Save & Go To Next Form	
			Figure 16		
			TIZUTE IU		

Figure 15

Creating and Editing Repeat Instances – Daily Forms



Step 1: Complete any of the data fields under the Daily Form Section, then click on any of the two "Save" buttons



Step 2: A dropdown box will now appear in this section for the particular patient record. You can add any number of instances using this dropdown box.

■ Daily Form Current instance: ● 1 ▽	Data Access Group: [No Assignment]
Editing existing Farticipant reentification Number: 000	-0009
Participant Identification Number:	000-0009
DATE OF ASSESSMENT * must provide value	may not be the date of completion
1. DAILY TREATMENT	
1.1 Current admission to ICU/IMC/HDU * must provide value	● yes ● No ● N/A
Record the worst value in the previous 24 hours (if Not Available write 'N/A')	·
1.2 FiO2 available?	⊕
1.3 SaO2 available?	⊕ ○ Yes
1.4 PaO2 available?	Yes No at time of FiO2 above
T1 10	© Yes

Figure 18

Navigating between repeating forms

Use the dropdown box in each section to navigate between the additional forms created.

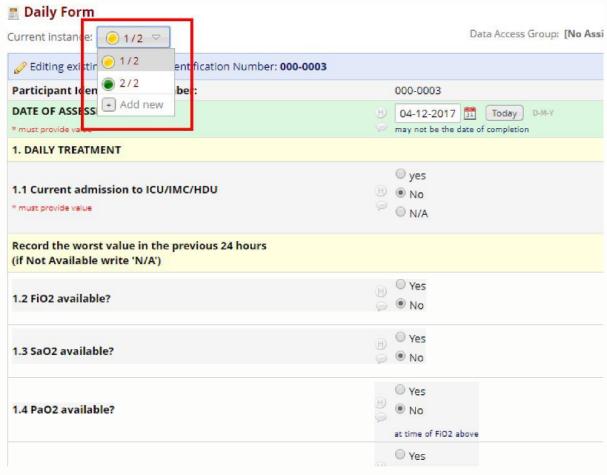


Figure 19

Record Status Dashboard

From the data collection panel select the 'record status dashboard', you can view all the patient records that was created by you. This will display the completion status for each instrument (form) for each subject.

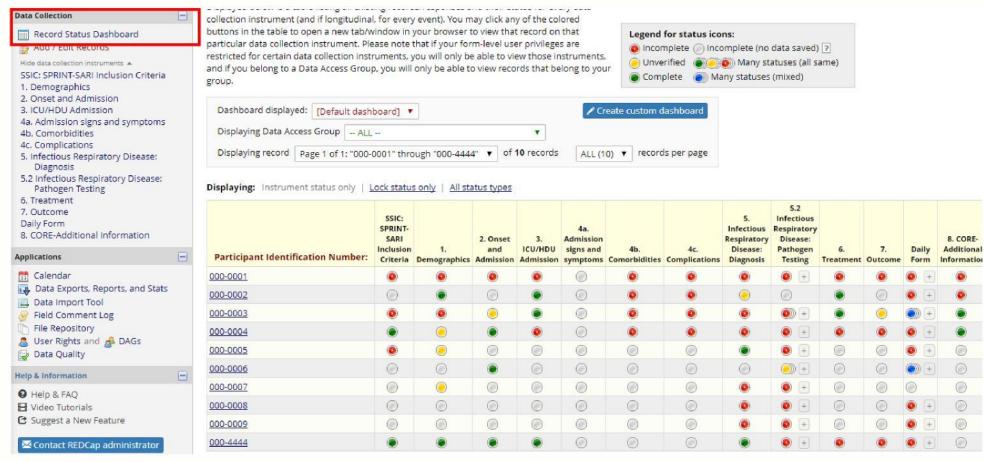


Figure 20

Completing all records

When data entry has been completed for an instrument (form), use the dropdown box (*figure 21*) to set the form to "Complete" status. Save using one of the save buttons.

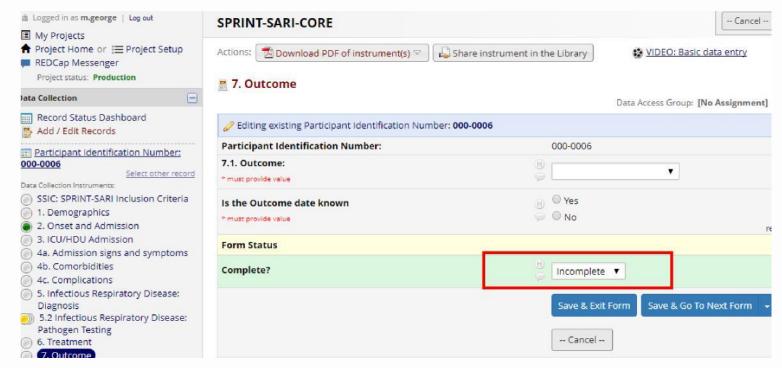
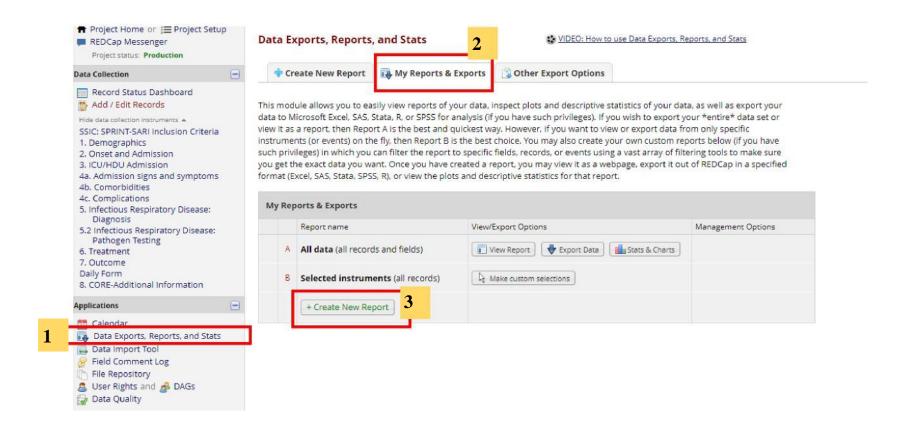


Figure 21

Accessing your data

Users can export any and all de-identified site data from the SPRINT-SARI project(s) on REDCap. Data may be exported by creating a report using the "Create New Report" button. Data may be exported as a CSV file from a report, and also in the form of a PDF file from the data entry page when viewing a particular record. The report file(s) is stored on REDCap and allows users to log in to download the files.

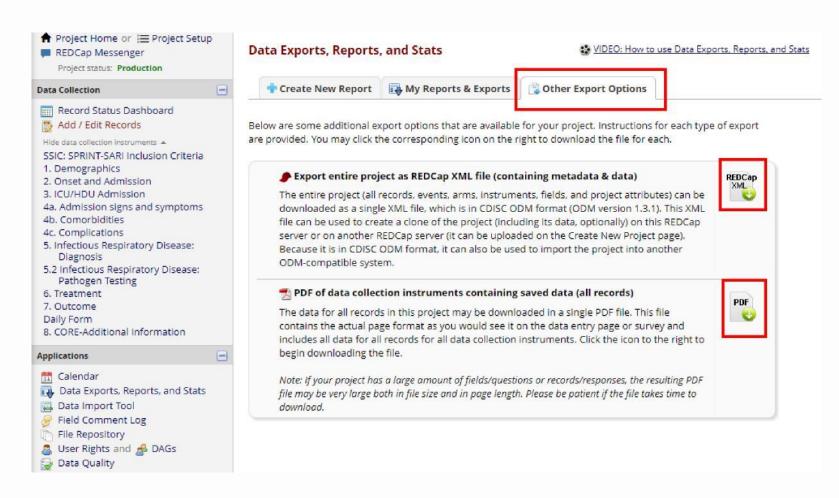


Accessing your data

Users can directly download all de-identified site raw data as single xml file (without creating a report file)

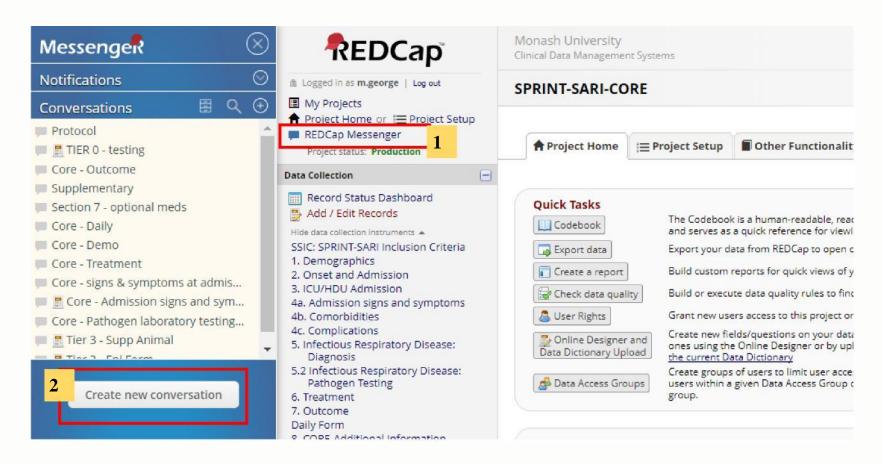
OR

Users can directly download all completed individual site data records as a pdf file.



REDCap Messenger

This is a communication platform is built directly into REDCap, allowing users to communicate easily, efficiently, and securely. REDCap Messenger is a chat application that supports one-on-one direct messages and group conversations, as well as project-linking, document and image sharing.



REDCAp Mobile App

Users can collect their REDCap data in a mobile app on an iPhone, iPad, or Android phone or tablet. The REDCap Mobile App offers a tool for offline data collection, particularly in environments with poor Internet connectivity.

To learn more, check out the <u>About the Mobile App</u> document, and if you are interested in the details of what security standards are applied in the app, please see the <u>Mobile App Security</u> document.

Check out the training videos on installing and setting up the REDCap Mobile app on your phone here:

https://projectredcap.org/software/mobile-app/



Where can I get REDCap training?

REDCap offers video training online.

These are a must for anyone beginning to use REDCap for the first time.

Training videos are available at http://projectredcap.org/resources/videos/

