

# REDCap Data Entry User's Guide & Reference Manual

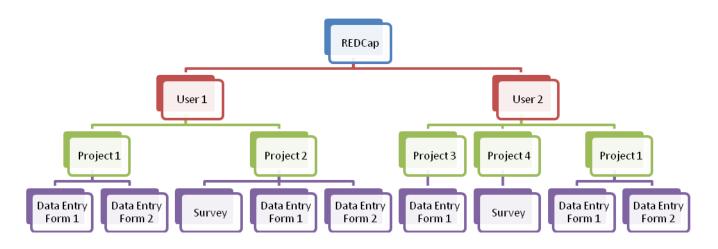
## Welcome to REDCap!

REDCap is a secure, web-based application for managing your clinical data. This document will review the basic principles of data entry in REDCap.

#### **REDCap structure and terminology**

REDCap is a database application that provides access on a project-by-project basis as determined by the Principal Investigator. Each project may have many users; each user may have many projects. Users will only see projects listed in their My Projects page for which they have access and within a project they will only see the forms to which they have access.

Please note in the below hierarchical chart, User 1 and User 2 both have access to Project 1, however User 2 does not have access to Project 2, etc.



**Data Collection 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. (This may be labeled differently in your project.)

**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. The meaning of the status values are determined by the study team.



## **Logging Into REDCap**

Open a browser and enter the following URL in the address line:

https://redcap.tsrh.org/index.php. Enter your username and password as seen in Figure 1. Your username is going to be your email and you should be instructed to provide a password the first time you log in

REDCap	
Log in	
Please log in with your user name and password. If you are havi User name: Password:	ng trouble logging in, please contact <u>REDCap Support</u> .
	Log In

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 – for the IPSG, there will be databases for each of the age group studies. The 6-8 age group study database is called **IPSG Age 6-8 Non-Op vs Operative Study Database**.

RED	Cap <sup>™</sup>						
Home My Projects	Request New Project	Training Resources	🛞 Help & FAQ	🖂 Sené	d-lt		
reated projects begin in <b>D</b> eal data in the project, you ire finished collecting data rought back to Production	Cap projects to which you curn evelopment status as you may move it to <b>Production st</b> or if you wish to stop collection status at any time when you a	u begin to build and design atus © to designate the pr on, the project may be set to are ready to begin collecting	them. When you a roject as officially c Inactive status data again. Also I	re ready to ollecting d ), althougi	begin er ata. Whe n it may b	ntering n you re	
vhich designates if the pro	iject contains surveys 📑 , dat	ta entry forms 📕 , or both 🛛	<b>i</b> .				
vhich designates if the pro My Projects	iject contains surveys 📑, dat	ta entry forms 📕, or both ]	<b>.</b>	Records	Fields	Туре	Status

Figure 2



## **Data Collection Types**

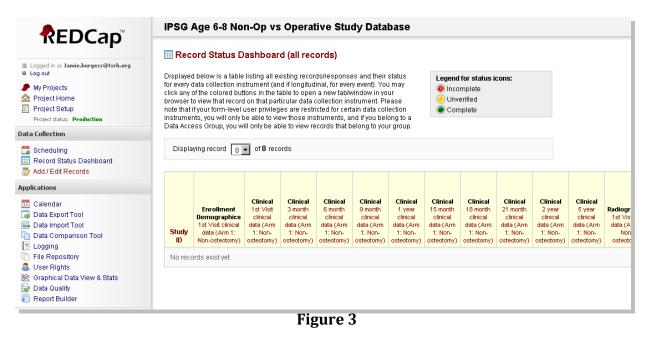
There are two types of data collection that a project can have:

- Classic Each form is used once for each participant.
- Longitudinal Each form may be used one or more times for each participant and each instance of the form is assigned to one or more events. This is the type of project used by the IPSG

### Longitudinal Type: Adding/Selecting a Record

**Record Status Dashboard**: The Record Status Dashboard (Figure 3) is a graphical representation of which data entry forms will be completed at each event. Once a record is created, data collection instruments will appear as red buttons underneath each event. The individual forms are represented by colored buttons. The color of the button represents the status of the form: red for incomplete, yellow for unverified, and green for complete.

If you want to navigate through the record for this subject, click on the buttons to select the form you want to see. In figure 3, the Dashboard currently shows that there are no patients entered into the Database. Once you start adding patients, the Dashboard grid will populate with buttons. You will only be able to see those patients that are enrolled at your site.





## **Data Entry Fields**

Figure 4 illustrates an example of a data entry form for a generic database. The data type for each field determines the appearance of the field. There are several field types in REDCap including text boxes, radio buttons and drop down lists (select only one answer), check box lists (select all answers that apply), slider analog scale, file upload and calculated fields. Calculated fields are automatically populated based data of one or more field values. In the IPSG database, fields like age and BMI are automatically calculated.

LOCK dir forms	First Name	Η	Thomas	
Applications	Last Name		Wayne	
1 Calendar	Contact Information			
Data Export Tool  Data Import Tool  Data Comparison Tool  Cogging  File Repository  Suser Rights  Record Locking Customization	Street, City, State, ZIP		123 State Street Harrisburg, PA 17011	Eccand
Service and Locking Mgmt Graphical Data View & Stats	Phone number		(717) 555-1212 Include Area Code	
Report Builder     Help & Information	Second phone number		(717) 531-0003 Include Area Code	
Help & FAQ	E-mail		myemail@hmc.psu.edu	
<ul> <li>Video Tutorials</li> </ul>	Other information			
* Suggest a New Feature If you are experiencing problems, please contact your <u>REDCap administrator</u> .	Ethnicity (B) O Hispanic or Latino O NOT Hispanic or Latino O Unknown / Not Reported reset value			
	Race		American Indian/Alaska Nativ     Asian     Native Hawaiian or Other Pac     Black or African American     White     More Than One Race     Unknown / Not Reported	
	Gender	Ð	O Female 💿 Male	
	* must provide value			reset value
	Specify the patient's mood		Very sad Indifferent	Very happy
	Upload the patient's consent form			reset value
	Is patient taking any of the following medications? (check all that apply)	Η	Lexapro Celexa Prozac Paxil Zoloft	
	Date of birth		1992-09-02 Today Y-M-	D

Figure 4



**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.

Phone number	(555) 123-4567
	Include Area Code

**Navigation**: Enter a value in the data field by keyboard strokes or clicking the mouse. Move to the next field by clicking in it, **or pressing the [Tab] key**.

> IMPORTANT: Navigate between fields using [Tab] or mouse clicks If you press [Enter], you will save the form, and exit the current screen.

**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. For example, text fields may require the value entered fall between minimum and maximum values. REDCap will not prevent you from continuing, but it will alert you to a value that is outside the pre-defined acceptable range.

Microso	ft Internet Explorer
1	The value you provided falls outside the suggested range (Range = 10 to 40). This value is admissible, but you may wish to verify.

**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.

IMPORTANT: If you navigate off the form without pressing [Enter] or clicking on one of the "Save" buttons on screen, your work will be lost.



Once you have completed entering the information on a form, you MUST click one of the save option buttons at the bottom of the screen. See Figure 5. There is no auto save in REDCap. The Form Status section will allow you to identify if the record is Incomplete, Unverified or Complete. Please make sure that all your data is entered correctly and completely and then select "Complete." We will be checking the collection instruments for quality and completeness and selecting "Complete" tells us that you have double checked the data and that it is ready for review.

- Save Record saves the data and returns to the record selection screen for the current form.
- Save and Continue saves the record and remains on the form for the same Study ID.
- Save and go to Next Form saves and navigates to the next form on the list for the study ID.

Study ID ski0009 Data Collection Instruments: Demographics			_				
Baseline Data	Editing existing Study ID skl0009						
<ul> <li>Month 1 Data</li> <li>Month 2 Data</li> </ul>	Study ID skl0009 Baseline Measurements						
Month 3 Data     Completion Data	Date of baseline visit	H Today Y	(-M-D				
Applications	Date blood was drawn	H Today Y	(-M-D				
	Serum Albumin (g/dL)	θ					
🛐 Calendar 😹 Data Export Tool	Serum Prealbumin (mg/dL)	н					
🖶 Data Import Tool	Creatinine (mg/dL)	Э					
👆 Data Comparison Tool	Normalized Protein Catabolic Rate (g/kg/d)	θ					
File Repository	Cholesterol (mg/dL)	Ю					
🚨 User Rights 🖄 Graphical Data View & Stats	Transferrin (mg/dL)	в					
Report Builder	Kt/V	н					
Reports	Dry weight (kilograms)	в					
1) Records Status	Collected Plasma 1?	θ					
2) Demo Report	Collected Plasma 2?	θ					
Help & Information	Collected Plasma 3?	θ					
Help & FAQ	Collected Serum 1?	θ					
<ul> <li>Video Tutorials</li> <li>Suggest a New Feature</li> </ul>	Collected Serum 2?	H 🖌					
If you are experiencing problems, please	Collected Serum 3?	Η 🔽					
contact your <u>REDCap administrator</u> .	Subject Global Assessment (score = 1-7)	θ					
	Date patient begins supplement	H Today Y	(-M-D				
	Form Status						
	Complete?	🖲 Incomplete 🐱					
		Save Record Save and Continue Save and go to Next Form					
		- Cancel -					
	Figure 5						
	Save Op	tions					