



REDCap Training 301

Advanced REDCap Features

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REDCap 301 Learning Objectives

- Understand Form Display Logic
- Identify Special Functions that are commonly used in calculations and branching logic
- Know how Action Tags can be used to make your data collection more dynamic
- Learn how to incorporate Smart Variables to customize questions, forms, and communications.
- Be able to build and display a Project Dashboard
- Learn how to manage Randomization in REDCap



Form Display Logic

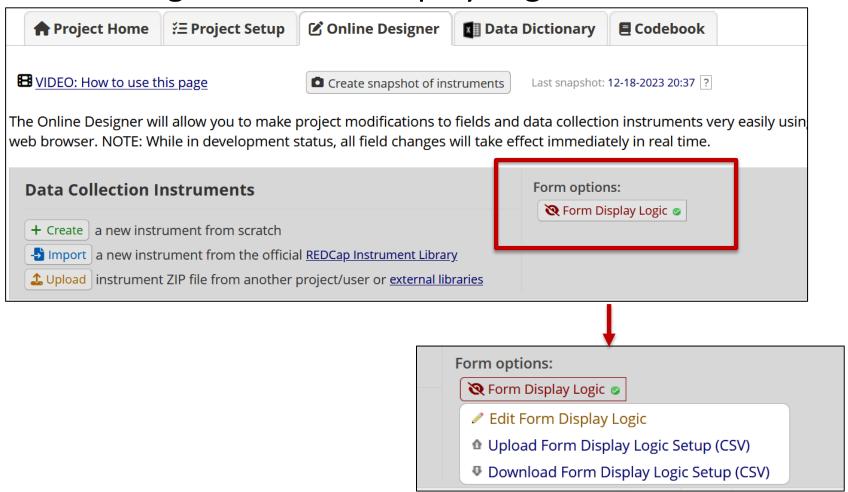
Data Collection Instrument	Baseline Baseline Visit	FU 45d Follow Up Visit - 45 days	FU 6m Follow Up Visit - 6 Months		Da	ata Colle	ction Ins	trument	Baseline Baseline Visit	FU 45d Follow Up Visit - 45 days	FU 6m Follow Up Visi - 6 Month
Patient Screening Form					Patient S		-		•		
Caregiver Screening Form					Caregive	r Screen	ing Form				
Patient Contact					Dationt	FU			0		
Caregiver Contact						45d	FU				
Patient Call Log		Data Collection Instrument			- ·	Follow Up	6m Follow	_		0	0
Patient Scheduled Interview Date					Baseline	Baseline Up Visit - 45	Up Visit - 6	w Date		0	0
Callahan Screener					Visit	days	Months			0	0
Patient Interview Start		Patient S	creening Fo	rm					0		
		Caregive	Screening	Form				istics	0		
Patient Baseline Characteristics		Patient C	ontact								
		Caregive						t=Yes –	all patie	ent fo	orms
New Record – only Pa	atient Sci	Patient C	all Log					r data	ntrv		
Form is available for	data enti	Patient S	cheduled In	iterview Date				Tuata	chury –		
Torm is available for t	aata Ciiti	Callahan	Screener								
		Patient Ir	iterview Sta	rt			0				
		Patient B	aseline Cha	racteristics							

Caregiver consent=Yes – all caregiver forms available for data entry



Form Display Logics

Online Designer -> Form Display Logic





Form Display Logic is an advanced feature that provides a way to use conditional logic to disable specific data entry forms that are displayed on the Record Status Dashboard, Record Home Page, or the form list on the left-hand menu. You might think of it as 'form-level branching logic'. Form Display Logic can be very useful if you wish to prevent users from entering data on a specific form or event until certain conditions have been met. The forms will still be displayed on the page, but they will be disabled in order to prevent users from accessing them. Below you may define as many conditions as you want. A form may be selected in multiple conditions, but if so, please note that the form will be enabled if at least one of the conditions is met. The Form Display Logic does not impact data imports but only operates in the data entry user interface to enable/disable forms. Additionally, Form Display Logic is not utilized by the Survey Queue at all but can affect the behavior of the Survey Auto-Continue feature if the checkbox for it is enabled below. LIMITATION: Please note that the conditional logic used below will be evaluated at the record level and not within the context of an event or a repeating instance, which means that it is not possible to use relative instance or relative event Smart Variables - i.e., those with the name 'current', 'next', or 'previous', such as [next-instance] or [previous-event-name].

Optional Settings:

Keep forms enabled if they contain data

Only disable empty forms (those with a gray form status icon).

Hide forms that are disabled

(You may select multiple forms by clicking them)

All forms that are disabled will also be hidden (not visible) on the Data Collection menu and on the Record Home Page.

▼ Condition 1: Keep the following forms enabled... [All Events] Patient Screening Form [All Events] Caregiver Screening Form [All Events] Patient Contact [All Events] Caregiver Contact [All Events] Patient Interview Start [All Events] Patient Baseline Characteristics [All Events]

View list of selected forms

Save

Cancel



Form Display Logics

QUESTIONS?



Special Functions for Calculation, Branching Logic

√x Special Functions

√× Special Functions

View text on separate page

List of functions that can be used in Branching Logic, Calculations, Report filtering, Data Quality Module, Automated Survey Invitations, etc.

REDCap logic can be used in a variety of places, such as Branching Logic, Calculations, Report filtering, Data Quality Module, Automated Survey Invitations, and more. Special functions can be used in the logic, if desired. A complete list of ALL available functions is listed below. Listed below are some examples of common use cases where these functions might be used.

NOTICE: Please be advised that it is not possible to pipe the choice label of a multiple choice field into any of the special functions listed below. In other words, you cannot use the ':label' option, such as [my_field:label], to output the text label into a function. **The special functions only utilize the value of a field, never its label.**

Practical examples for common use cases

1. Calculate the number of days separating today's date and a date/datetime field's value in the past or future.

```
datediff([date1], 'today', 'd')
```

2. Calculate a person's age based on date of birth.

```
rounddown(datediff([date_of_birth], 'today', 'y'))
```

3. Calculate a person's BMI (in metric units of 'cm' and 'kg') and rounding to the first decimal place.

```
round(([weight]*10000)/(([height])^(2)), 1)
```

4. Calculate a person's BMI (in English units of 'lb' and 'in') and rounding to the first decimal place.

```
round(([weight]/(([height])^(2))*703), 1)
```

5. Remove a prefix and dash from the beginning of a record name (e.g., convert '4890-2318' to '2318').

```
mid([record-name], find('-', [record-name])+1, length([record-name])-find('-', [record-name])+1)
```

6. Convert a person's first and last name into a username-looking format (e.g., convert 'John' and 'Doe' to 'john_doe'). We may want to trim the values just in case there were spaces accidentally entered.

```
lower( concat( trim([first_name]), '_', trim([last_name]) ) )
```

7. Add leading zeros to an integer, in which the number near the end of the equation represents the maximum length of the result after.



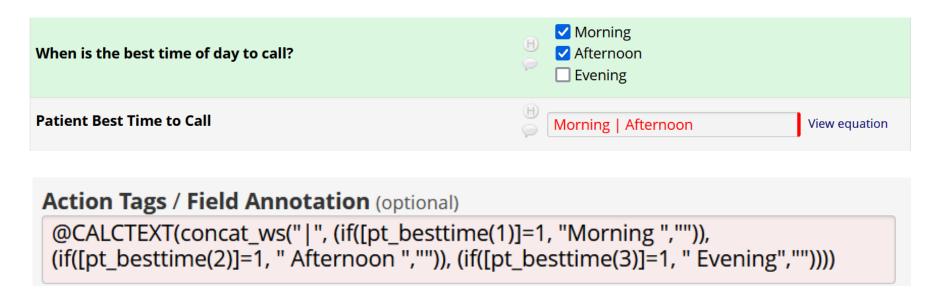
Special Functions Example 1 – Date Functions

```
year([date_field])
month([date_field])
day([date_field)
```

Interview Date * must provide value	[pt_int_start_date]	O5-10-2024 Today M-D-Y
Interview Year	year([pt_int_start_date])	2024 View equation
Interview Month	month([pt_int_start_date])	O5 View equation
Interview Day	day([pt_int_start_date])	View equation

Special Functions Example 2 – Text Functions

1. Joins the text from multiple text strings with a separator – concat_ws



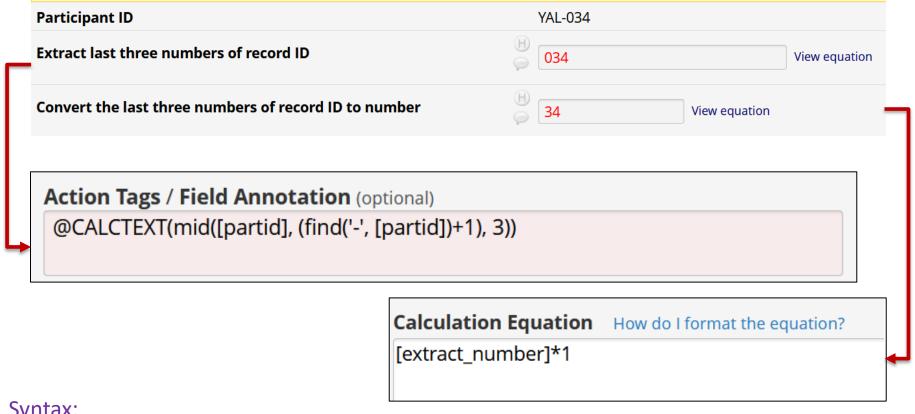
Syntax:

concat ws function: concat ws (separator, text, text, ...)



Special Functions Example 2 – Text Functions

2. Extract a text string from a text field — mid, find



Syntax:

mid function: mid (text, start position, number of characters)

find function: find (needle, haystack)



Special Functions: Calculations & Branching Logic

QUESTIONS?

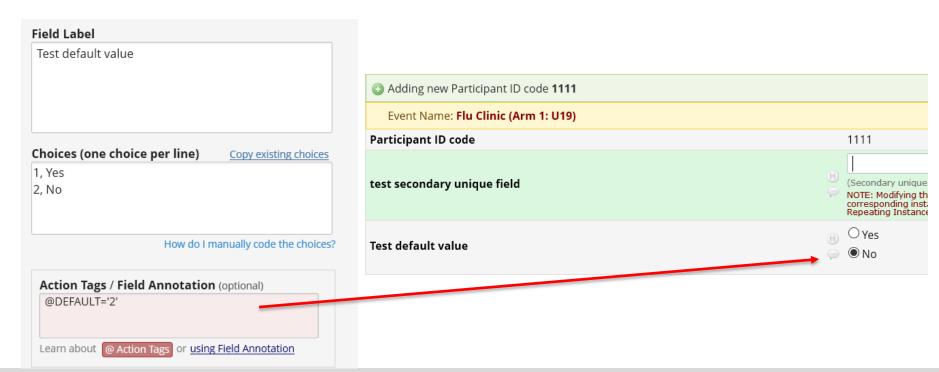


Action Tags



Action tags allow you to modify fields in very specific ways. Once applied, a corresponding action is performed.

In REDCap, action tags begin with the '@' sign and are placed inside a field's "Action Tags/Field Annotation" box.





Action Tags Example 1 - @IF

- Allows action tags to be set based on conditional logic provided inside an @IF() function.
- Syntax:

@IF(CONDITION, ACTION TAGS if condition is TRUE, ACTION TAGS if condition is FALSE)

Example: @IF([yes_no] = '1', @HIDDEN, @HIDECHOICE='3' @READ-ONLY)

Implement when [yes_no]='1'

Implement when [yes_no]<>'1'

• If you wish not to output action tags for a certain condition, set it with a pair of apostrophes/quotes as a placeholder

Example: @IF([my_radio]='1', @READONLY, ")

Note: The conditional logic is evaluated only when the survey page or data entry form initially loads; thus, action tag will not be evaluated in real-time as data is entered.



Action Tags Example 2 - @CALCTEXT and @CALCDATE

@CALCTEXT

Evaluates logic that is provided inside a @CALCTEXT() function for Text Box fields *only* and outputs the result as text, typically performed with an if(x,y,z) function - e.g.,

@CALCTEXT(if([gender]='1', 'male', 'female'))

@CALCDATE

Performs a date calculation by adding or subtracting a specified amount of time from a specified date or datetime field and then provides the result as a date or datetime value - e.g.,

@CALCDATE([visit_date], 7, 'd')



Action Tags Example 2 - @CALCTEXT and @CALCDATE

 On the Interview End Form, a prompt is shown on the form for the interviewer to tell the patient when they will be contacted again for the next interview.

Prompt at 45-day visit:

Event: FU 45d

Participant ID YAL-034

PROMPT: Those are all the questions I have for you today. Thank you very much for taking the time to complete this interview! We will be contacting you again in four and a half months, around 10-30-2023 - 11-15-2023.

Prompt at 6-month visit:

Event: FU 6m

Participant ID YAL-034

PROMPT: Those are all the questions I have for you today. Thank you very much for taking the time to complete this interview! We will be contacting you again in six months, around 05-02-2024 - 05-18-2024.



Action Tags Example 2 - @CALCDATE and @CALCTEXT

[calc_fu_interval]	Calctext fu interval for piping	text Field Annotation: @HIDDEN @CALCTEXT(if([event-name]='fu_45d_arm_1', 'four and a half months', If([event-name]='fu_6m_arm_1', 'six months', '")))
[calc_6m_start]	6 month interview window start date	text (date_mdy) Field Annotation: @HIDDEN @CALCDATE([baseline_arm_1] [random_date], 179, 'd')
[calc_6m_end]	6 month interview window end date	text (date_mdy) Field Annotation: @HIDDEN @CALCDATE([baseline_arm_1] [random_date], 195, 'd')
[calc_12m_start]	12 month interview window start date	text (date_mdy) Field Annotation: @HIDDEN @CALCDATE([baseline_arm_1] [random_date], 364, 'd')
[calc_12m_end]	12 month interview window end date	text (date_mdy) Field Annotation: @HIDDEN @CALCDATE([baseline_arm_1] [random_date], 380, 'd')
[calc_int_window_start]	Window start date for piping	text (date_mdy) Field Annotation: @HIDDEN @CALCTEXT(if([event-name]='fu_45d_arm_1', [calc_6m_start] , if([event-name]='fu_6m_arm_1', [calc_12m_start], '')))
[calc_int_window_end]	Window end date for piping	text (date_mdy) Field Annotation: @HIDDEN @CALCTEXT(if([event-name]='fu_45d_arm_1', [calc_6m_end] , if([event-name]='fu_6m_arm_1', [calc_12m_end], '')))
[pt_int_end_fu] Show the field ONLY if: [event-name]='fu_45d_arm_1' or [event-name]='fu_6m_arm_1'	PROMPT: Those are all the questions I have for you today. Thank you very much for taking the time to complete this interview! We will be contacting you again in [calc_fu_interval], around [calc_int_window_start] - [calc_int_window_end].	descriptive



Action Tags

QUESTIONS?



Allow reference information other than data fields (e.g., event, repeat instance, DAG or users)

[*] Smart Variables

mart Variables			
Name of Smart Variable	Description	Examp	le of Usage
Name of Smart Variable	Description	Example input	Example output
User			
[user-name]	The current user's REDCap username.	[user-name]	jane_doe
[user-fullname]	The current user's first and last name (as listed on their My Profile page).	[user-fullname]	Jane Doe
[user-email]	The current user's primary email address (as listed on their My Profile page).	[user-email]	jane.doe@example.edu
[user-dag-name]	The Data Access Group (the unique group name) to which the current user belongs (blank if not in a DAG).	[user-dag-name]	vanderbilt_group
[user-dag-id]	The group ID number of the Data Access Group to which the current user belongs (blank if not in a DAG).	[user-dag-id]	324
[user-dag-label]	The name/label of the Data Access Group to which the current user belongs (blank if not in a DAG).	[user-dag-label]	Vanderbilt Group
Record			
[record-name]	The record name of the current record.	[record-name]	108
[record-dag-name]	The Data Access Group (the unique group name) to which the current record belongs (blank if not in a DAG).	[record-dag-name]	harvard_site
[record-dag-id]	The group ID number of the Data Access Group to which the current record belongs (blank if not in a DAG).	[record-dag-id]	96
[record-dag-label]	The name/label of the Data Access Group to which the current record belongs (blank if not in a DAG).	[record-dag-label]	Harvard Site
Form			
[is-form]	Detects if the current instrument is being viewed as a data entry form (returns 1 for True, 0 for False), as opposed to a survey.	[is-form]	1





Example 1:

Set the option selected at the previous event as the default choice in the current event.

Choices (one choice per line) Copy existing choices 1, Amlodipine (Norvasc) 2, Diltiazem (Cardizem, Tiazac, etc.) 3, Nicardipine (Cardene SR) 4, Nifedipine (Procardia, Adalat) 5, Verapamil (Calan SR, Verelan) 8, Other {mr_ccb_oth}

```
Action Tags / Field Annotation (optional)

@DEFAULT='[previous-event-name][mr_ccb:value]'
```

- Append ':value' to the variable name inside brackets to pipe the value (not the label) of a multiple-choice field
- To pipe the value of a multiple-choice field as the default value inside the @DEFAULT Action Tag, ':value' must be used.



Example 2:

Branching logic based on data access groups -

[record-dag-name]='bwh' or [record-dag-name]='inova'

Example 3:

Branching logic based on user roles -

[user-role-label]='medical monitor' or [user-role-label]='admin' or [user-role-label]= 'unblinded dcc staff'



Example 4:

Customize message for alert and notification

An unanticipated problem has been reported by [record-dag-label]. DAG Name

Participant ID: [partid]

Event: [event-label] Event Label

SAE form instance number: [current-instance] **Current repeat instance number**

This event is serious, unexpected and related to study participation. This event must be reviewed by the Medical Monitor immediately.

<u>Per the protocol</u>: If the Medical Safety Monitor believes that a finding or trend suggests a threat to the safety of study participants, the Principal Investigator and chair of the DSMB will be notified and the DSMB convened as necessary. The IRB will be notified of any changes in risk to study participants.

<u>Please note</u>: The report status is [ae_site_rpt_status][current-instance]. If the report is "in process", the project manager will work with the local site to obtain outstanding information while you review the report.



Example 4:

Customize message for alert and notification

An unanticipated problem has been reported by BWH.

Participant ID: 15

Event: FU 45d

SAE form instance number: 7

Click here to open the form

This event is serious, unexpected and related to study participation. This event must be reviewed by the Medical Monitor immediately.

<u>Per the protocol</u>: If the Medical Safety Monitor believes that a finding or trend suggests a threat to the safety of study participants, the Principal Investigator and chair of the DSMB will be notified and the DSMB convened as necessary. The IRB will be notified of any changes in risk to study participants.

<u>Please note</u>: The report status is Ready for review. If the report is "in process", the project manager will work with the local site to obtain outstanding information while you review the report.



QUESTIONS?



 Project Dashboards are pages with dynamic content that can be added to a project

 They can utilize special Smart Variables called Smart Functions, Smart Tables, and Smart Charts that can perform aggregate mathematical functions, display tables of descriptive statistics, and render various types of charts, respectively



Project Dashboard Example 1

Displaying recently generated information





SMART FUNCTIONS are aggregate mathematical functions that are applied across ALL records in a project.

Smart Functions include min, max, mean, median, sum, stdev, count, and unique.

This project contains 50 records. The average age of all participants is 47.38 (stdev=30.93). The median weight is 109 (min: 47, max: 197).

SMART TABLES display descriptive statistics for fields with each field as a row in the table.

Smart Tables can be displayed with ALL columns by default:

	Count	Missing	Unique	Min	Max	Mean	Median	StDev	Sum
Height (cm)	50	0	35	133	214	177.22	180	24.64	8,861
Weight (kilograms)	50	0	44	47	197	114.72	109	42.79	5,736
Race	50	0	7						
Gender	50	0	2						

▲ Export table (CSV)

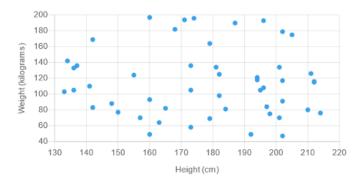
Or with only specified columns:

	Mean	StDev
Age (years)	47.38	30.93
Weight (kilograms)	114.72	42.79
Height (cm)	177.22	24.64

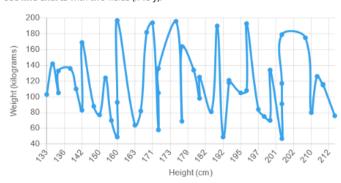
▲ Export table (CSV)

SMART CHARTS can be used to display many types of charts for one or more fields in the project.

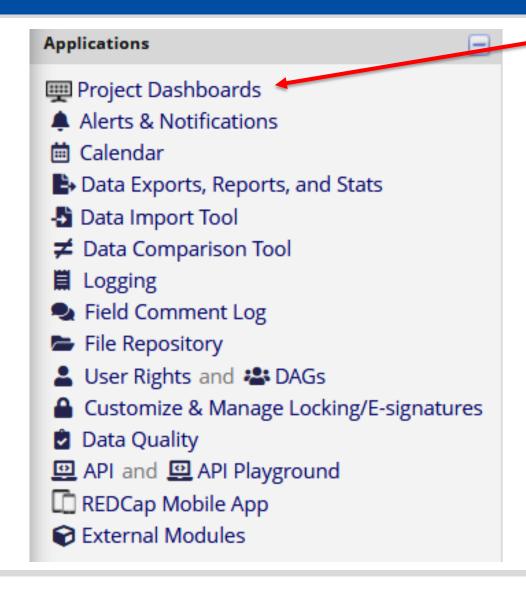
Display a scatter plot of two fields (x vs y):



Use **line charts** with two fields (x vs y):









Dashboard title:	Project Dashboard Example 1										
User access:	Choose who sees this dashboard on their left-hand project menu (Note: Users with Setup/Design privileges can still access all dashboards via the Project Dashboards page.) OR - OCustom user access (Choose specific users, roles, or data access groups who will have access)										
Set as "public":	Enabling this feature below will auto-generate a public link for viewing the dashboard without needing to log in to REDCap Dashboard is publicly viewable by anyone with the public link										
Dashboard content: Add any static or dynamic text to be displayed, including Smart Functions, Smart Tables, and Smart	Paragraph \vee $-$ B I \cup \mathscr{S} \equiv \equiv \equiv \bigcirc \bigcirc										
Charts.	SMART FUNCTIONS are aggregate mathematical functions that are applied across ALL records in a project.										
	SMART FUNCTIONS are aggregate mathematical functions that are applied across ALL records in a project.										
	SMART FUNCTIONS are aggregate mathematical functions that are applied across ALL records in a project. Smart Functions include min, max, mean, median, sum, stdev, count, and unique.										
Dashboard help: ** Use the Wizard											
	Smart Functions include min, max, mean, median, sum, stdev, count, and unique. This project contains [aggregate-count:study_id] records. The average age of all participants is [aggregate-mean:age] (stdev= [aggregate-stdev:age]). The median weight is [aggregate-median:weight] (min: [aggregate-min:weight], max: [aggregate-min:weight]										
	Smart Functions include min, max, mean, median, sum, stdev, count, and unique. This project contains [aggregate-count:study_id] records. The average age of all participants is [aggregate-mean:age] (stdev= [aggregate-stdev:age]). The median weight is [aggregate-median:weight] (min: [aggregate-min:weight], max: [aggregate-max:weight]). SMART TABLES display descriptive statistics for fields with each field as a row in the table.										
Dashboard help: Use the Wizard	Smart Functions include min, max, mean, median, sum, stdev, count, and unique. This project contains [aggregate-count:study_id] records. The average age of all participants is [aggregate-mean:age] (stdev= [aggregate-stdev:age]). The median weight is [aggregate-median:weight] (min: [aggregate-min:weight], max: [aggregate-max:weight]). SMART TABLES display descriptive statistics for fields with each field as a row in the table.										
	Smart Functions include min, max, mean, median, sum, stdev, count, and unique. This project contains [aggregate-count:study_id] records. The average age of all participants is [aggregate-mean:age] (stdev= [aggregate-stdev:age]). The median weight is [aggregate-median:weight] (min: [aggregate-min:weight], max: [aggregate-max:weight]). SMART TABLES display descriptive statistics for fields with each field as a row in the table. Smart Tables can be displayed with ALL columns by default: Or with only specified columns:										
	Smart Functions include min, max, mean, median, sum, stdev, count, and unique. This project contains [aggregate-count:study_id] records. The average age of all participants is [aggregate-mean:age] (stdev=[aggregate-stdev:age]). The median weight is [aggregate-median:weight] (min: [aggregate-min:weight], max: [aggregate-max:weight]). SMART TABLES display descriptive statistics for fields with each field as a row in the table. Smart Tables can be displayed with ALL columns by default: Or with only specified columns: [stats-table:height,weight,race,gender] [stats-table:age,weight,height:mean,stdev]										
	Smart Functions include min, max, mean, median, sum, stdev, count, and unique. This project contains [aggregate-count:study_id] records. The average age of all participants is [aggregate-mean:age] (stdev=[aggregate-stdev:age]). The median weight is [aggregate-median:weight] (min: [aggregate-min:weight], max: [aggregate-max:weight]). SMART TABLES display descriptive statistics for fields with each field as a row in the table. Smart Tables can be displayed with ALL columns by default: [stats-table:height,weight,race,gender] SMART CHARTS can be used to display many types of charts for one or more fields in the project.										
	Smart Functions include min, max, mean, median, sum, stdev, count, and unique. This project contains [aggregate-count:study_id] records. The average age of all participants is [aggregate-mean:age] (stdev= [aggregate-stdev:age]). The median weight is [aggregate-median:weight] (min: [aggregate-min:weight], max: [aggregate-max:weight]). SMART TABLES display descriptive statistics for fields with each field as a row in the table. Smart Tables can be displayed with ALL columns by default: [stats-table:height,weight,race,gender] SMART CHARTS can be used to display many types of charts for one or more fields in the project. Display a scatter plot of two fields (x vs y): Use line charts with two fields (x vs y):										

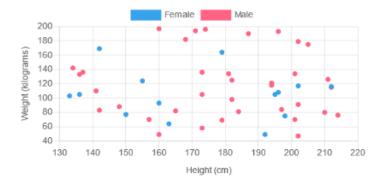


Wizard for creating Smart Functions, Smart Tables, and Smart Charts This wizard can help you create a new Smart Function, Smart Table, or Smart that you can then use in a Project Dashboard. Simply make selections using the drop-down lists below regarding which Smart Variable you wish to use, which fields to be utilized in it, and other optional features available. Once your selections have been made, you may click the 'Copy to clipboard' button at the bottom, after which you may paste that generated text into the body of your Project Dashboard. Step 1) Choose a Smart Variable to create: aggregate-count Step 2) Choose a field to utilize: study_id "Study ID" + Add another field Step 3) Optional data filtering and other settings: By default, Smart Functions, Smart Tables, and Smart Charts will utilize all the data from *all records* in the project. However, you may utilize a subset of the data in the project by limiting them to a specific report's data (using a unique report name), to records belonging to one or more DAGs, and/or to data in specific events (if the project is longitudinal). Filter the data using a report: -- no filtering by report --- no filtering by data access group -Filter the data using DAGs: Current user's DAG Duke

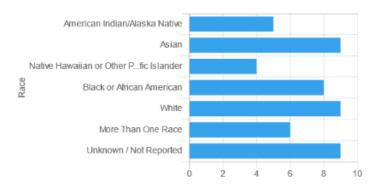
Step 4) Copy the generated Smart Variable syntax and paste it in your project dashboard:



Add a third field for grouping (by color):



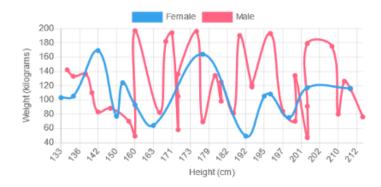
Display a bar chart with a single multiple choice field:



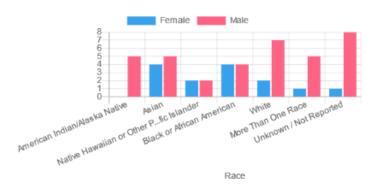
Display a pie chart



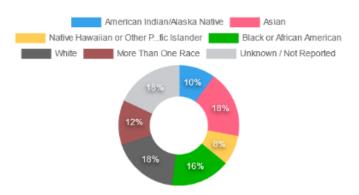
Add a third field for grouping (by color):



Display bar charts vertically, and add a second field for grouping:



Or a donut chart







Smart Variables			
	(vanasting instruments/ovents only) The last (highest		
Name of Corner Verial I	Baraninsian	Example input	Example output
Name of Smart Variable	Description	[glucose][last-instance]	119
Aggregate Functions, Charts, and Tables (also known as Smart Functions, Smart Charts, and		v to use Smart Charts, Func	tions, and Tables (14 min)
	The minimum value of a field across all records in the	[aggregate-min:age]	13
[aggregate-min: fields: parameters]	project (including all events and/or repeating instances in all records). Multiple fields may be used and must be comma-separated.	<pre>[aggregate- min:age,participant_age, other_age]</pre>	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 commaseparated.	[aggregate-median:age]	57
[aggregate-sum:fields:parameters]	The sum of all values for 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-sum:age]	9451
[aggregate-count:fields:parameters]	The count of all values for 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	[aggregate-count:age]	68

Close



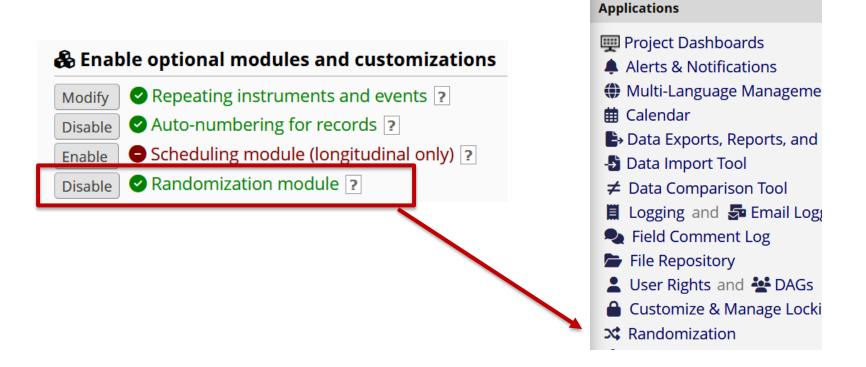
QUESTIONS?



Randomization

Enable randomization:

Project Setup -> Enable optional modules and customizations -> Enable Randomization Module -> Randomization link becomes available on left menu

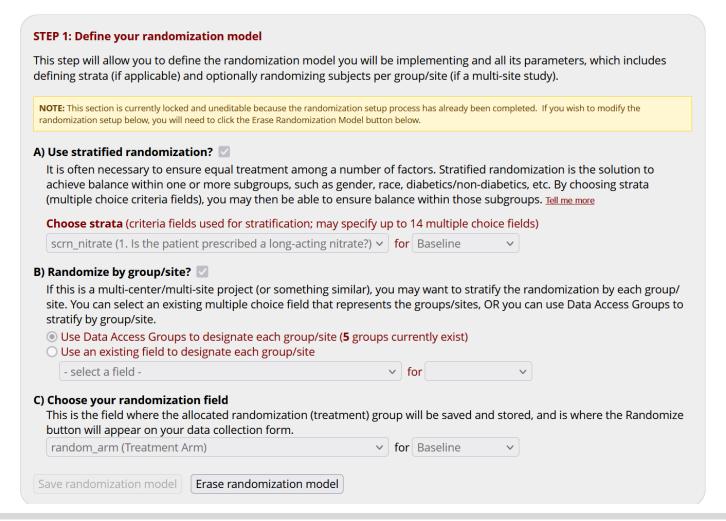


Randomization

- Randomization in REDCap works by allowing you to create your custom allocation list, which will serve as a lookup table for deciding how to randomize subjects.
- 2. Set up your randomization model and all its parameters in step 1
- 3. Download randomization template in step 2 and send to your statistician
- 4. Ask your statistician to create randomization table using the variable codes in the template
- 5. You will need one randomization table for testing and one for production. **The two tables cannot be the same**. Ask your statistician to create a randomization table with fewer number of allocations for testing.

Randomization Step 1

Step 1: Set up your randomization model and all its parameters





Randomization Step 2

Step 2: Download the randomization template and send it to your statistician

STEP 2: Download template allocation tables (as Excel/CSV files)

Below are some example files that you may download to get a general idea for how you may structure your own randomization table. You do not have to use any of these. In fact, **we recommend that you NOT use these exact templates** but instead recommend that you merely use them as an example or baseline to start from in order to create your own custom allocation file. After uploading your allocation table in Step 3 below, it will then be used as a lookup table to perform assignments when subjects are being randomized. **NOTE:** Record names (e.g., study ID) should NOT be included as a column in your allocation table, but only the fields listed in the example files below. More details

Example #1 (basic) | Example #2 (all possible combos) | Example #3 (5x all possible combos)

			•														
_	Α	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	P	Q
1	random_as	crn_nitrate	redcap_data_	_access_gro	up												
2	1		1 449)													
3	2		1 449)		NOTES:											
1	1	(0 449)		- Do NOT	modify th	e first row	, although	you may m	odify, add,	or delete	any other r	ow in this	file.		
5	2	(0 449)		- Remem	ber that th	nis file is O	NLY a temp	plate and sh	ould NOT I	be used as	s-is as your	allocation	table.		
5	1		1 450)		- You do	o not have to delete this 'notes' column when uploading your allocation table (it will be ignored).										
7	2		1 450)		- Below i	s a list of a	ll raw code	ed values a	and their cor	respondin	g option l	abels for ea	ch strata f	ield and/or	Data Acces	ss Groups.
3	1		0 450)													
9	2		0 450)		Values/la	bels for "r	andom_ar	m" (Treatr	ment Arm):							
0	1		1 451	L		1	Beta Bloo	ker									
1	2		1 451	L		2	Calcium (Channel Bl	ocker								
2	1		0 451	L													
13	2	(0 451	L		Values/la	bels for "s	crn_nitrate	e" (<div cla<="" td=""><td>ss="rich-tex</td><td>t-field<!--</td--><td>p></td></td></div>)	ss="rich-tex	t-field </td <td>p></td>	p>	:				
4	1		1 452	2		1	Yes										
5	2		1 452	2		(No										
6	1		0 452	2													
7	2		0 452	2		Values/la	bels for "r	edcap_dat	a_access_	group" (Data	a Access G	roup):					
8	1		1 448	3		449	BWH										
9	2		1 448	3		450	Duke										
0	1		0 448	3		451	Inova										
21	2		0 448	3		452	Kaiser										
2						448	Yale										
3																	



Randomization Step 3

STEP 3: Upload your allocation table (CSV file)

Once you have created your custom allocation table as a CSV file and made sure that you kept the format prescribed in the template files from Step 2 above, you may now upload the file below. It will be checked for any possible errors first before it is accepted and stored in REDCap. Please note that you will need to create two different allocation tables: one to be used for testing while your project is in development status and the other for use when in production status. Below are some important reminders before you begin uploading your allocation tables.

Reminders:

- Once your project is in production status, the allocation tables will become locked and unmodifiable.
- Be sure to include more assignments in your allocation table than you think you will need (to accommodate possible drop-out and drop-in of subjects).
- Record names (e.g., study ID) should NOT be included as a column in your allocation table, but only the fields listed in the example files from Step 2 above.



yet

Upload allocation table (CSV file) for use in DEVELOPMENT status

Browse... No file selected.

Upload File



Upload allocation table (CSV file) for use in PRODUCTION status

Browse... No file selected.

Upload File

You will need <u>two</u> randomization tables – one for development and one for production.

The two tables must NOT be the same. Ask your statistician to generate a smaller randomization table for testing (development).



Randomization Testing

- Upload the development randomization table for testing
- Test randomization in the development project

Very Important – Do NOT randomize any real participants in your

development project



 After the randomization table is uploaded, the randomization button will become available in the randomization field. Click the button to randomize test records.





Randomization Move to Production

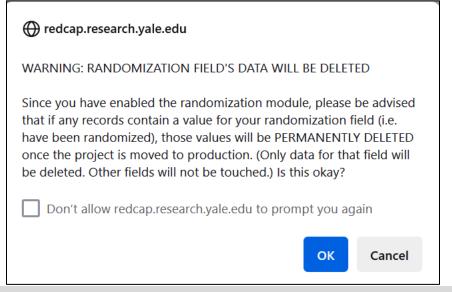
After testing completed and no more changes are needed, upload production randomization table



Move project to production. All test randomization data will be

deleted.

This is the reason why you should never randomize any real participants in development project.





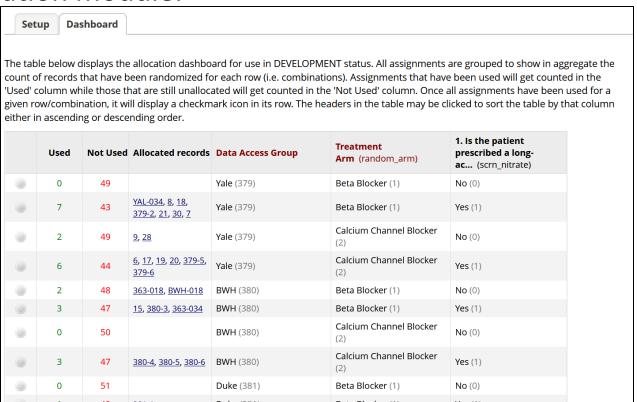
Randomization Reminders

Reminders:

- Once your project is in production status, the allocation tables will become locked and unmodifiable.
- Be sure to include more assignments in your allocation table than you think you will need (to accommodate possible drop-out and drop-in of subjects).
- Record names (e.g., study ID) should NOT be included as a column in your allocation table, but only the fields listed in the example files from Step 2.
- If you need to upload more allocations to the randomization table, contact us at redcap@yale.edu. We can help you append more rows to the randomization table.

Randomization Dashboard

To monitor randomization, go to the dashboard tab of the randomization module.



Note: If your study has blinded study staff, make sure that you do not give them access to the randomization module or the form containing the randomization variable.



Randomization

QUESTIONS?



Wrap Up

- Form Display Logic
- Special Functions
 - Calculations
 - Branching Logic
- Action Tags
- Smart Variables
- Project Dashboard
- Randomization

Visit:



Further Questions:

REDCap@yale.edu

Thank You!

