Tufts Clinical and Translational Science Institute

Version LTS 10.6

Upgrade Date: 2/06/2021

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Overview

Tufts CTSI recently upgraded REDCap to version 10.6. The new REDCap features are summarized below. If you have questions about these features, please email informatics@tuftsctsi.org:

- Date Calculations
- @PREFILL action tag
- Import / Export Options
- Text Calculation / Functions
- Improved Online Designer
- …and many more!

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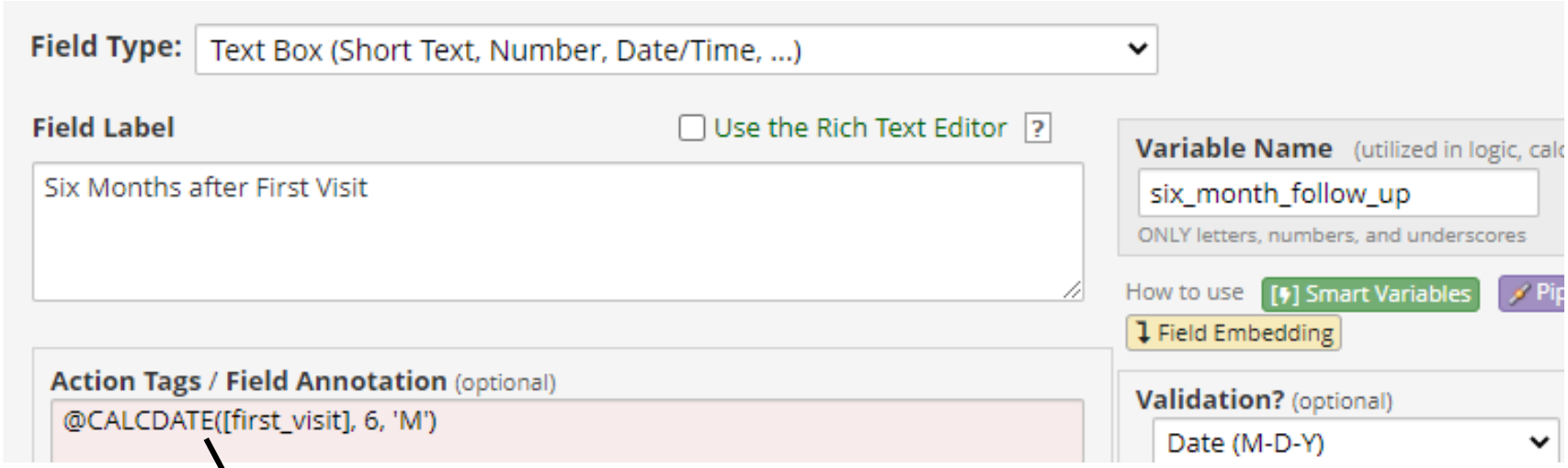
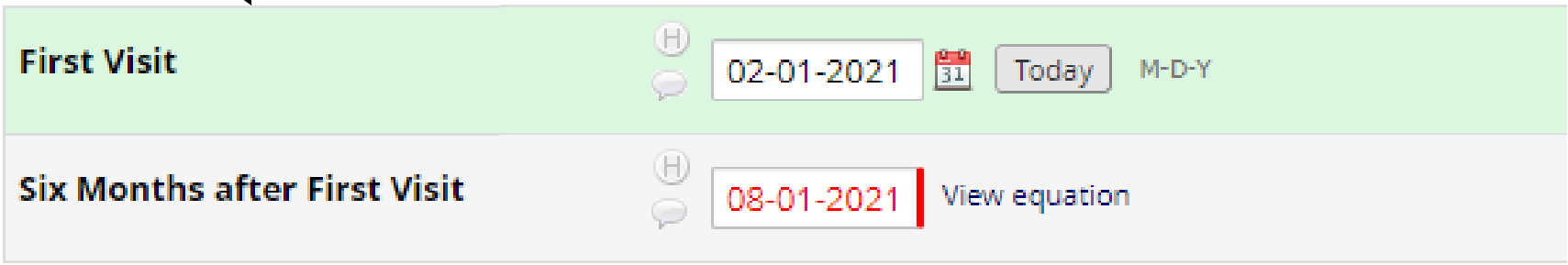
Date Calculations

The new **@CALCDATE** action tag can be used on text fields to turn them into calculated fields that return dates:





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Date Calculations

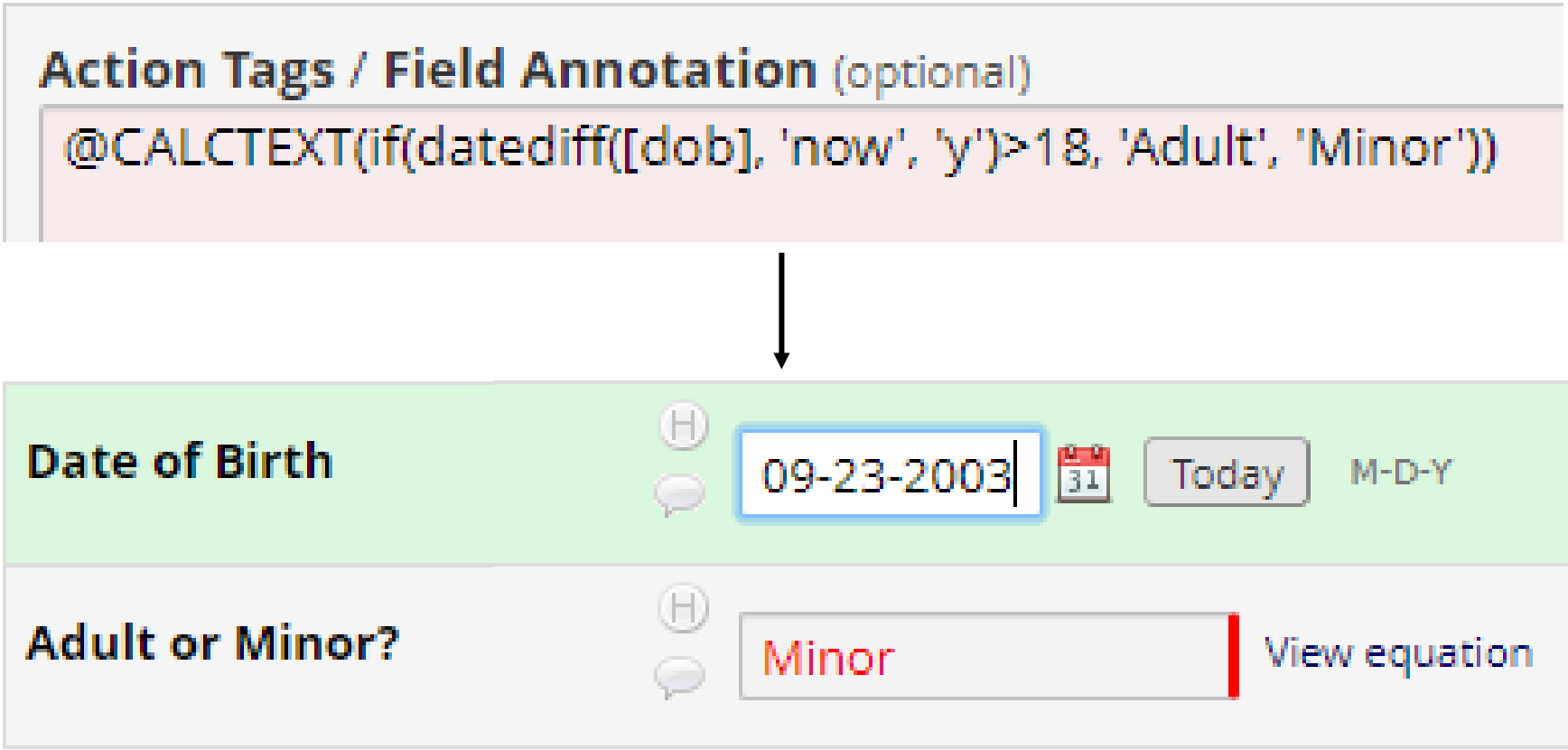
The format for **@CALCTEXT** is

@CALCTEXT([variable], offset, units)

- **[variable]** is the base variable (both fields must have a validation)
- **offset** is the amount to add (use negative numbers to subtract)
- **units** is the unit to add or subtract, which can be:
  - 'y' (years)
  - 'M' (months)
  - 'd' (days)
  - 'h' (hours)
  - 'm' (minutes)
  - 's' (seconds)

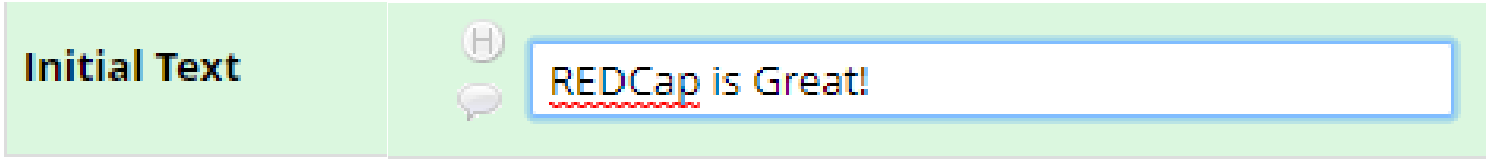
Text Calculations / Functions

The new **@CALCTEXT** action tag can be used on text fields to get text values from calculations:



Text Calculations / Functions

REDCap also now features several **text manipulation functions**, which can be used with **@CALCTEXT**:



- **left(**text, number of characters**)** - Returns the leftmost characters

- **right(**text, number of characters**)** - Returns the rightmost characters

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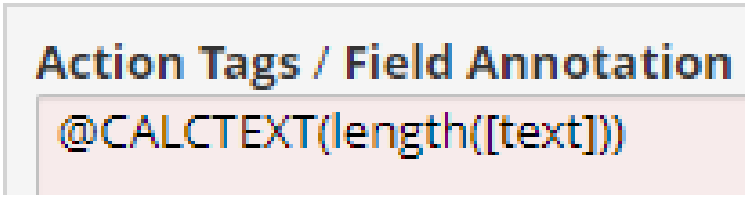
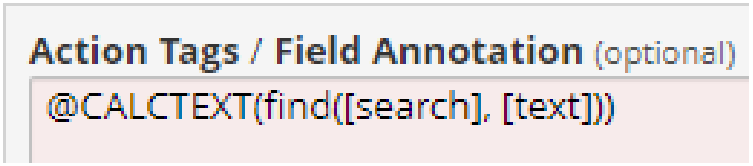
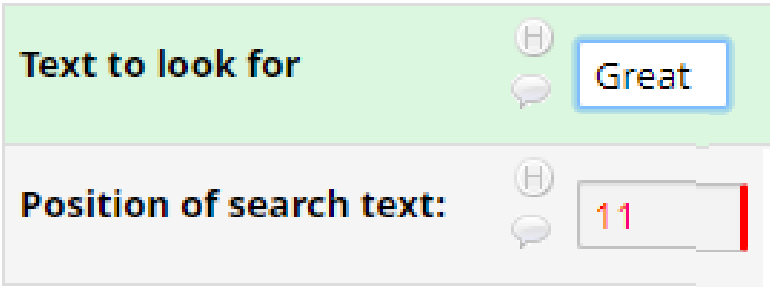
Text Calculations / Functions

- **length(**text**)** - Returns the number of characters

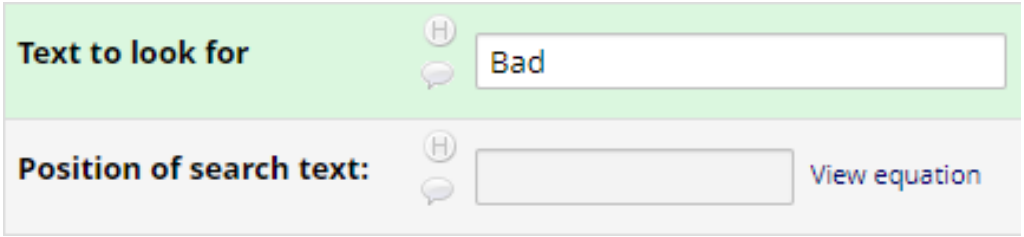


- **find(**needle, haystack**)** - Finds one text value within another





find() is **not case sensitive**, and returns **blank** if the value is not found



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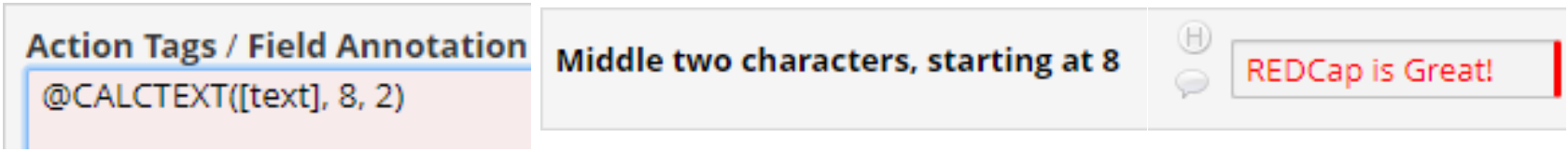
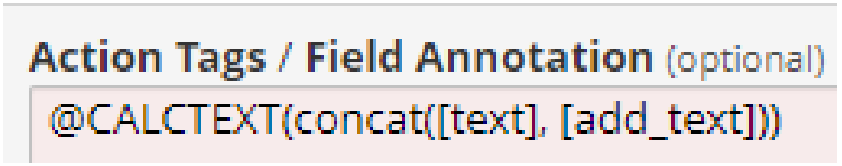
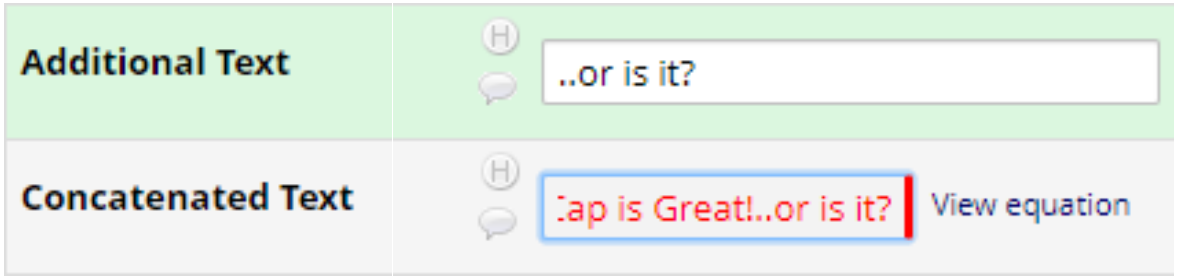
Text Calculations / Functions

- **mid(**text, start position, number of characters**)** - Returns a number of characters from a text string starting at the position you specify



- **concat (**text,text,...**)** – *Combines* the text from multiple strings:





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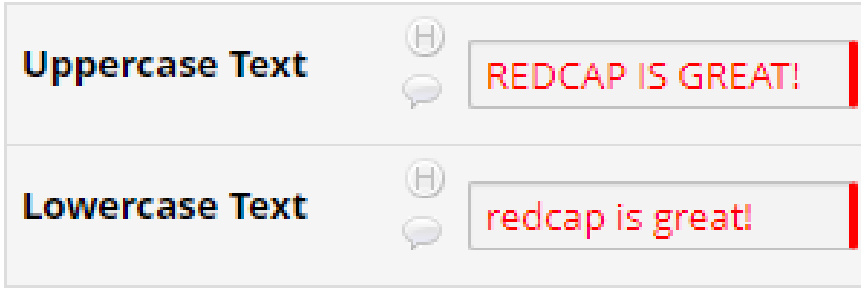
Text Calculations / Functions

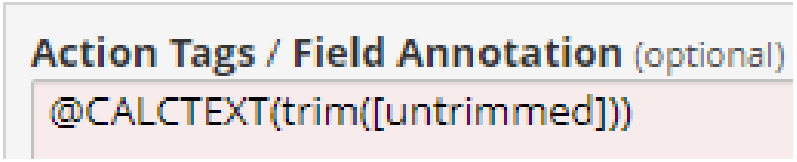
- **upper(**text**)** and **lower(**text**)** – Converts text to upper/lowercase:

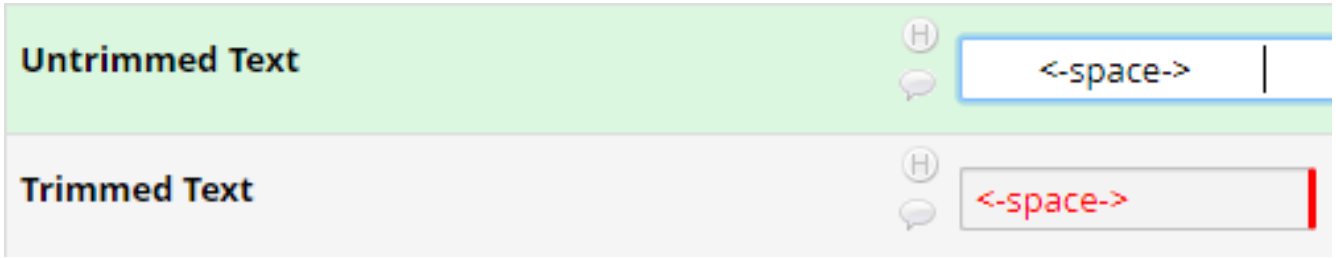
```
@CALCTEXT(upper([text]))
```

```
@CALCTEXT(lower([text]))
```



- **trim(**text**)** – Removes spaces from around text:





Text Calculations / Functions

Try using the functions in combination with each other!

Action Tags / Field Annotation (optional)

```
@CALCTEXT(mid([email], find('@', [email])+1, length([email])-find('@', [email])))
```

Email	informatics@tuftsctsi.org
Email Domain	tuftsctsi.org View equation

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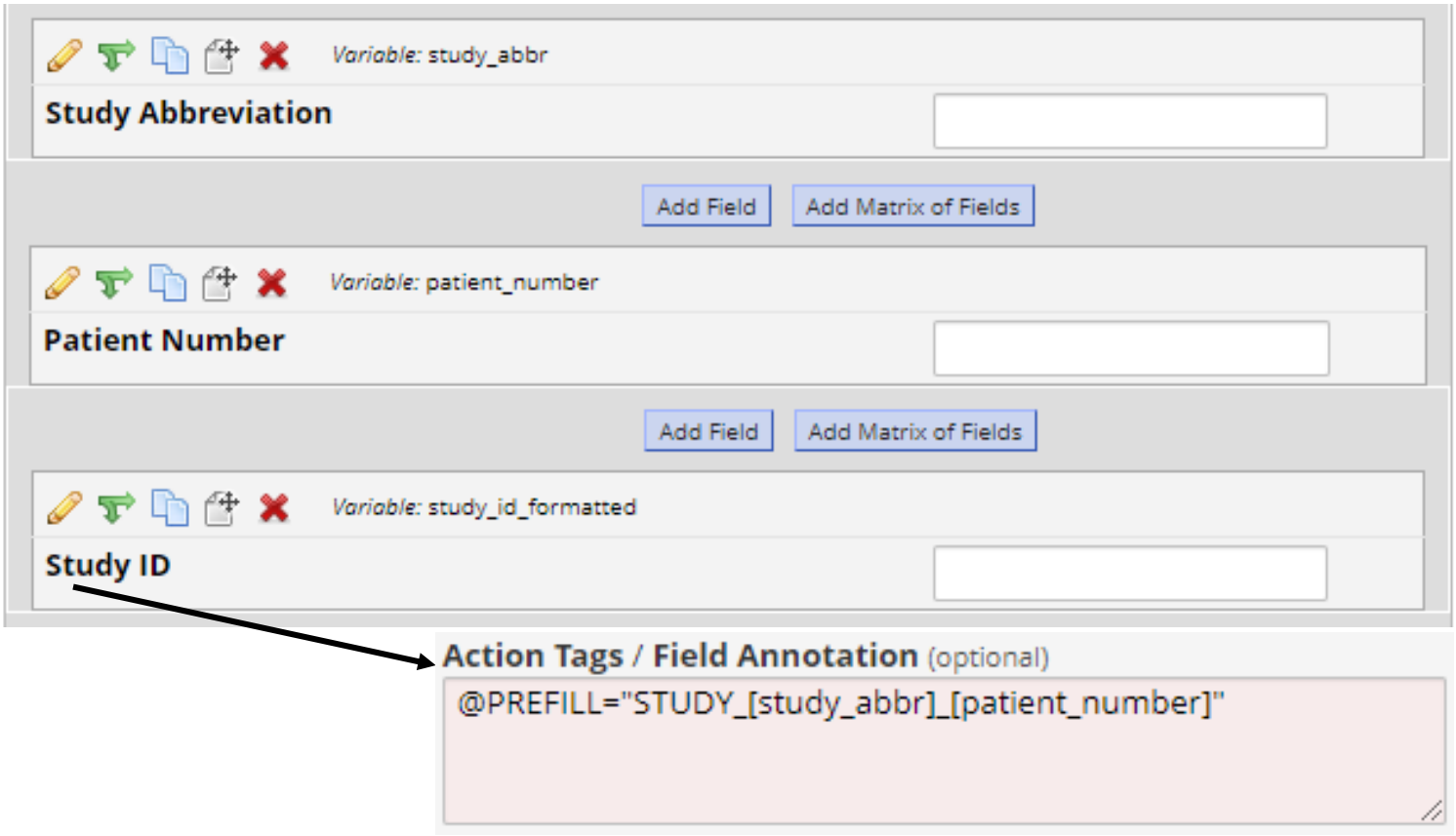
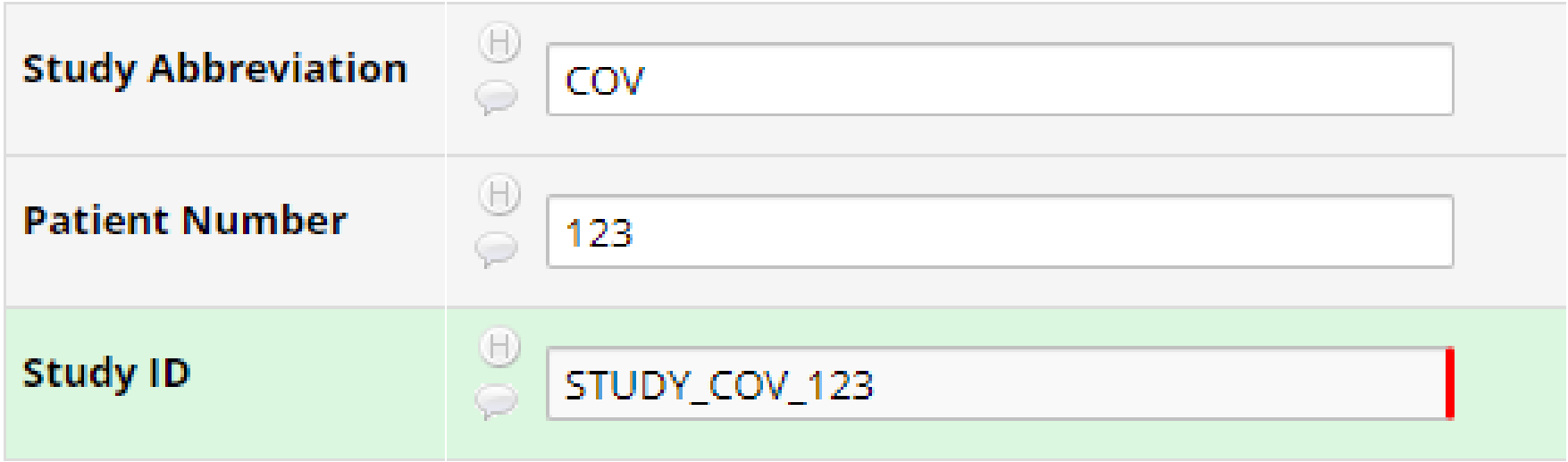
@PREFILL Action Tag

The **@PREFILL** action tag allows you to set a field to a certain value every time the page loads:



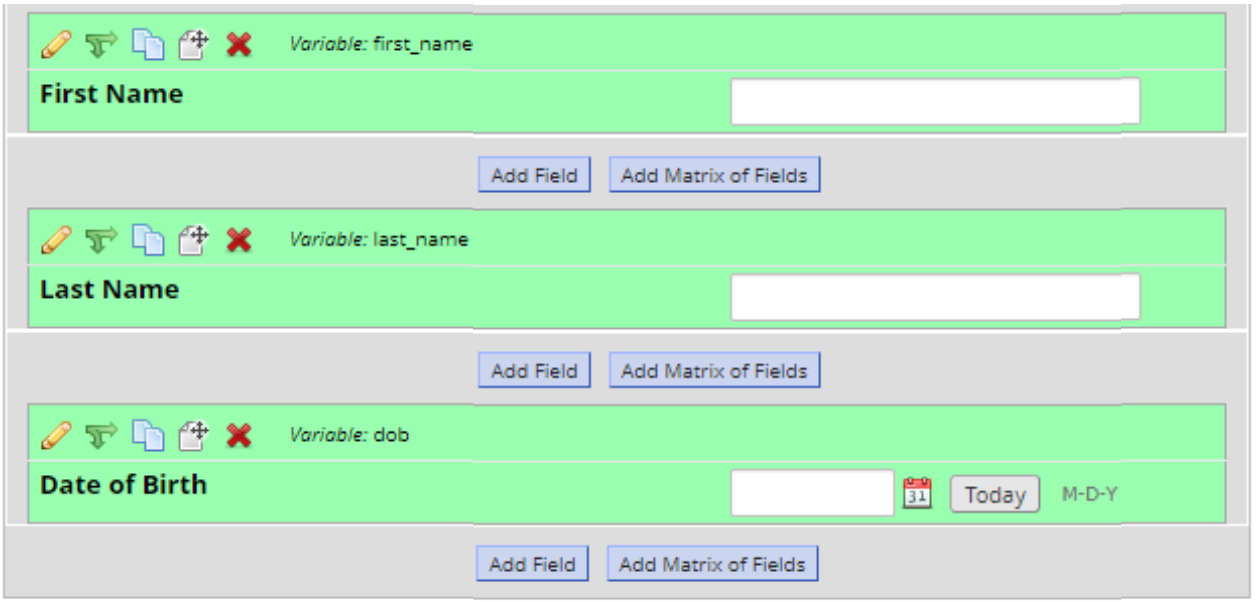
@PREFILL Action Tag

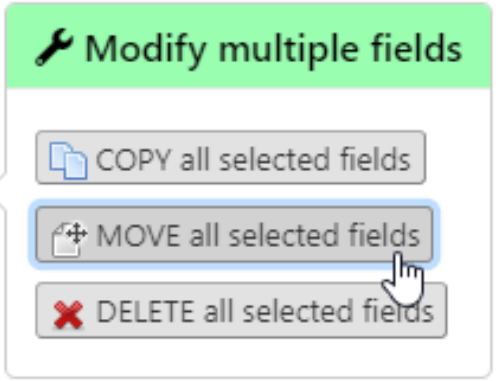
This effectively makes the field read-only, and can be used to combine fields into a single variable:



Online Designer Improvements

You can now select multiple fields together to move, copy or delete them:





To select multiple fields, simply hold down Ctrl or Shift on Windows, or Cmd on MAC when you click on them!

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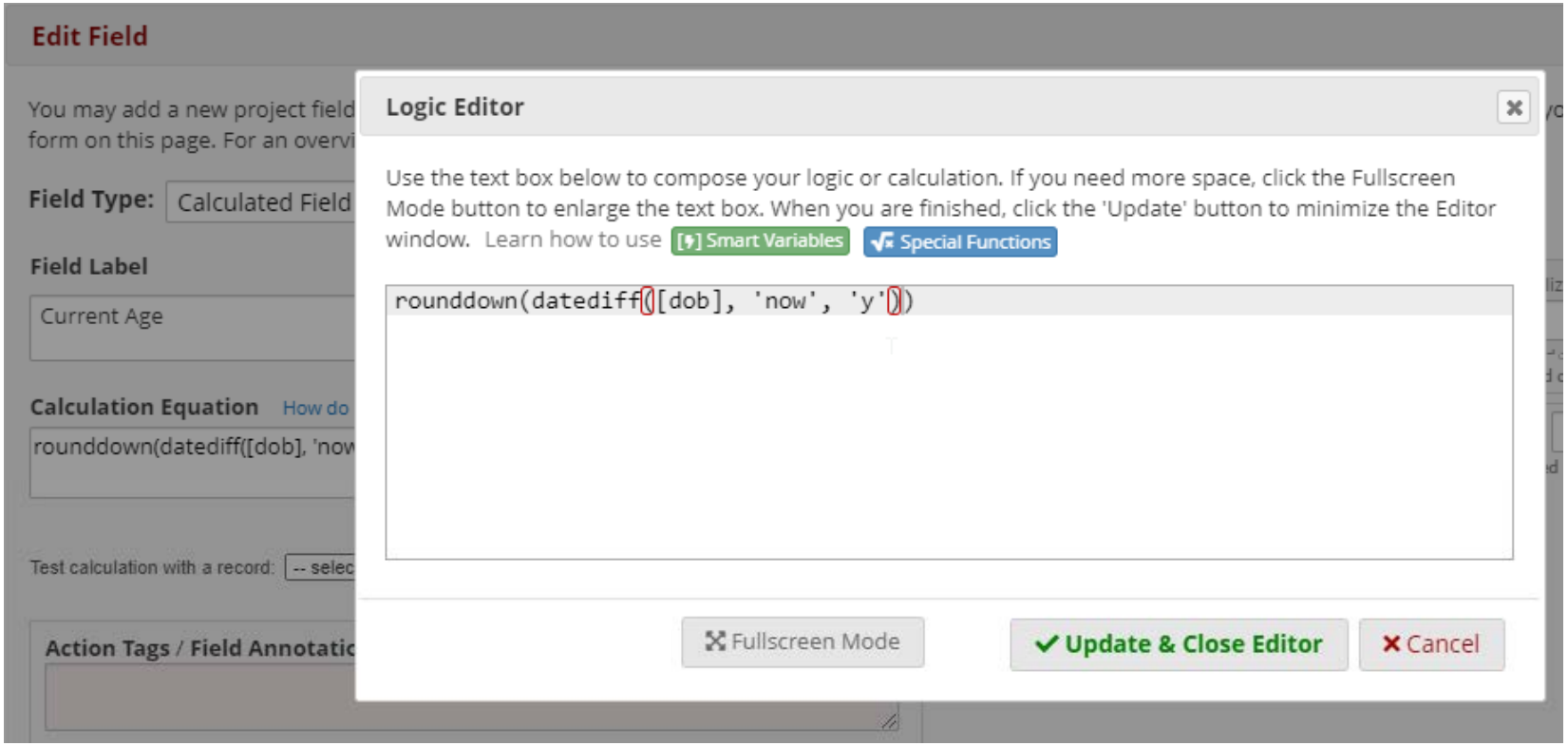
Online Designer Improvements

There is a new logic editor when setting up calculated fields, branching logic, and other equations:



It features **parentheses matching** and **autocomplete**!

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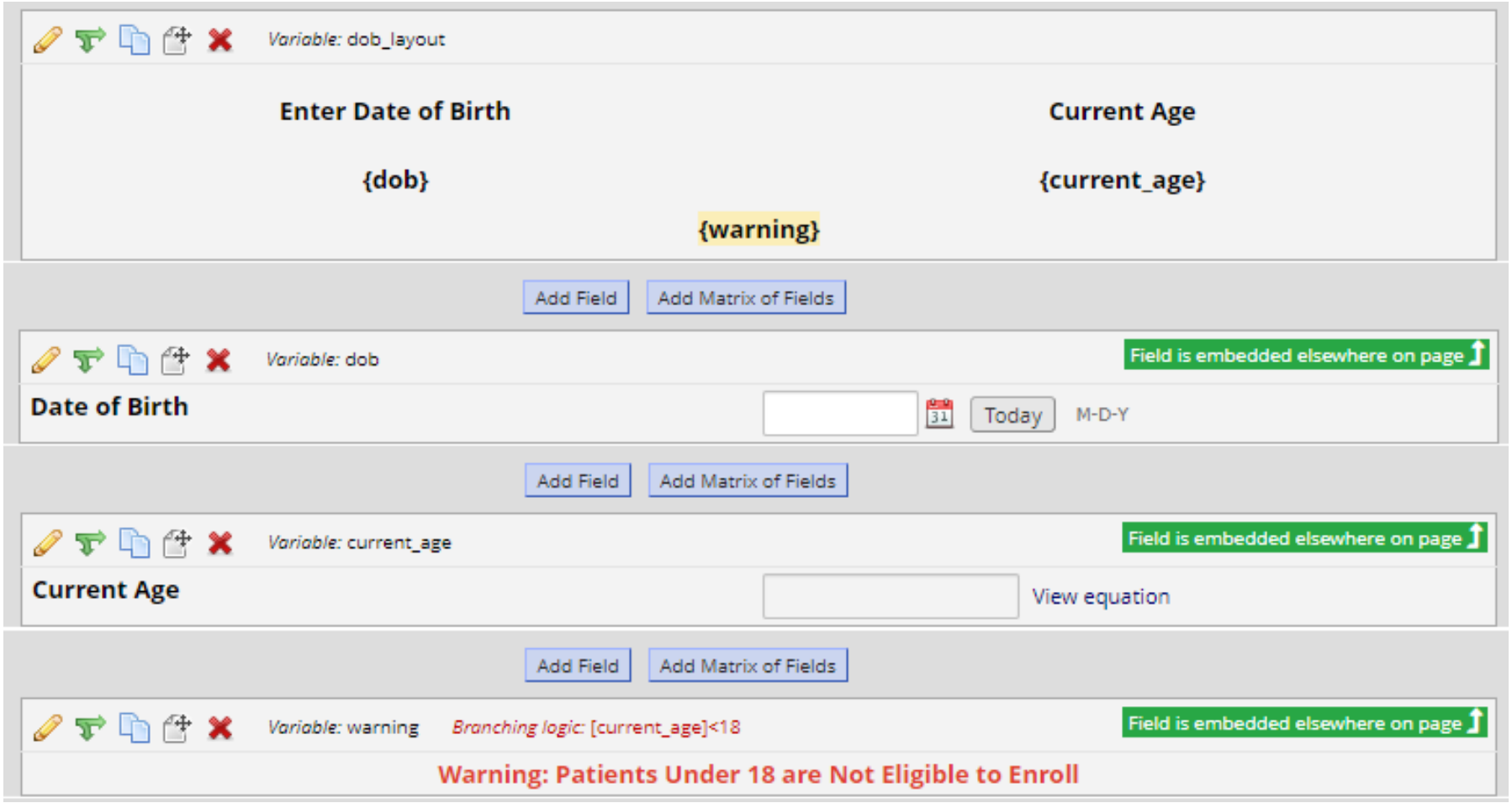
Online Designer Improvements

Field Embedding can now be used on descriptive fields:



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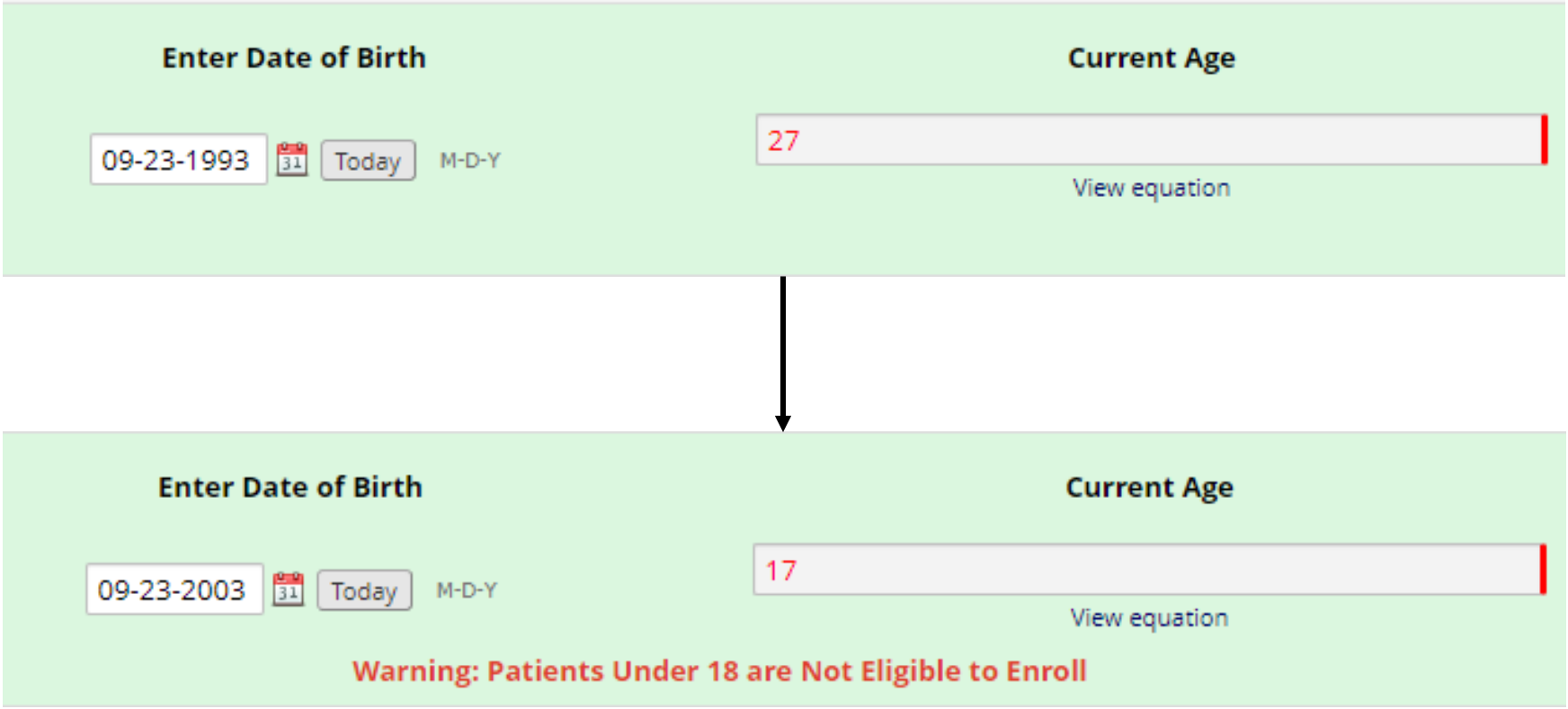
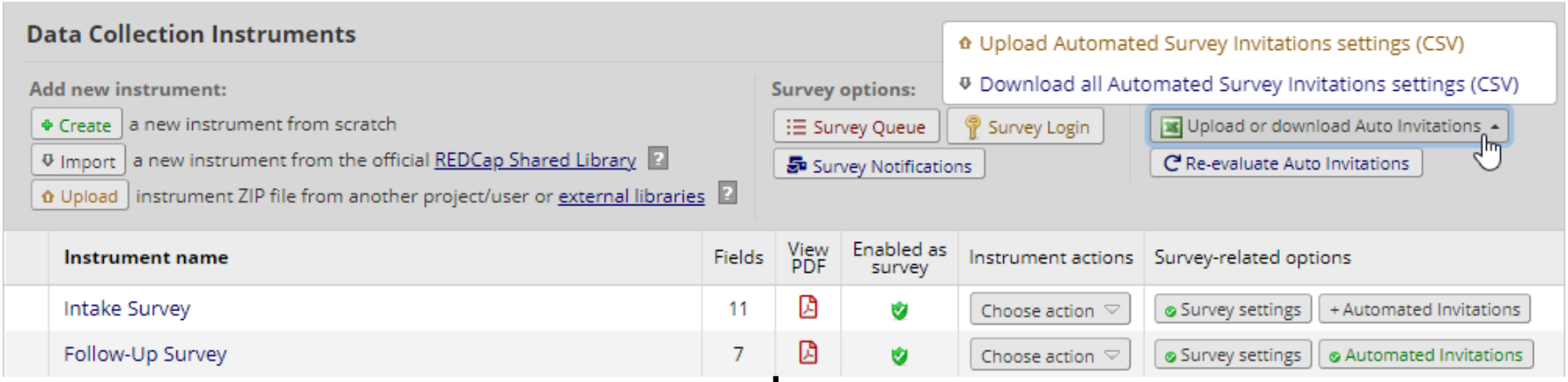
Online Designer Improvements

Which allows you to add text that appears conditionally to complex layouts by using branching logic:



New Import / Export Options

Several areas of REDCap now allow you to import and export their settings using .csv (Excel) files. These include **Automated Survey Invitations**:



A	B	C	D	E	F	G
form_name	event_name	condition_surveycomplete_form_name	condition_surveycomplete_event_name	instance	active	email_subject
followup_survey	baseline_arm_1	intake_survey	baseline_arm_1	FIRST	1	Please Take this Survey
followup_survey	6month_followup_arm_1	followup_survey	baseline_arm_1	FIRST	1	Please Take this Follow-Up

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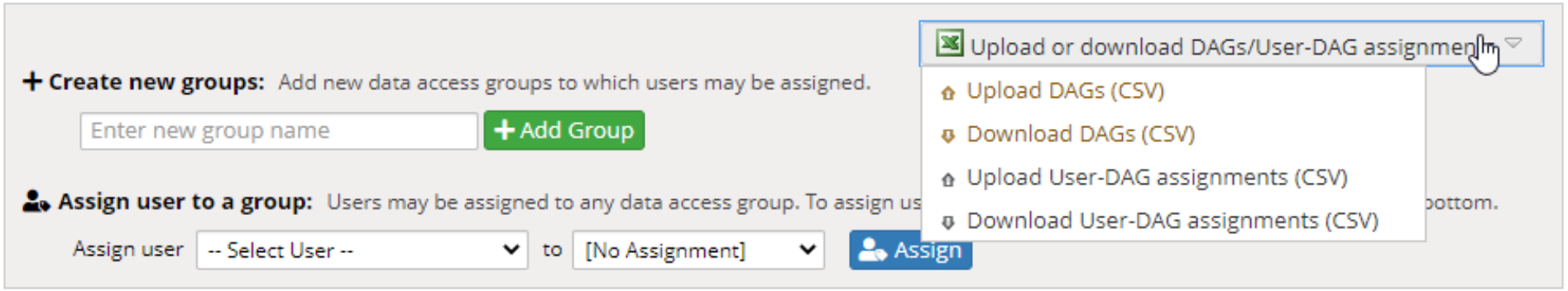
New Import / Export Options

Data Access Groups (DAG's) – groups and assignments:



Data Access Groups	Users in group	Number of records in group	Unique group name (auto-generated)	Group ID number	Delete group?
Baystate Health		1	baystate_health	3167	✖
MaineHealth		0	mainehealth	3168	✖
Tufts Medical Center		3	tufts_medical_cent	3165	✖
Tufts University		1	tufts_university	3166	✖

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New Import / Export Options

This can be used to make user management easier when you have a large number of users in several DAG's:

Setting up DAG's:

A	B
data_access_group_name	unique_group_name
Baystate Health	baystate_health
MaineHealth	mainehealth
Tufts Medical Center	tufts_medical_cent
Tufts University	tufts_university

Setting DAG Assignments:

A	B
username	redcap_data_access_group
[redacted]	
[redacted]	tufts_medical_cent
[redacted]	tufts_university
[redacted]	baystate_health
[redacted]	tufts_medical_cent

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New Import / Export Options

And **Data Quality Rules**:

Rule #	Rule Name	Rule Logic (Show discrepancy only if...)	Real-time execution ?	Total Discrepancies
1	Participants <18 Years Old	rounddown(datediff([dob], 'now', 'y')) <18		Execute
2	Name Changes	([baseline_arm_1][first_name] <> [6month_followup_arm_1][first_name]) or ([baseline_arm_1][last_name] <> [6month_followup_arm_1][last_name])		Execute

A	B	C
rule_name	rule_logic	real_time_execution
Participants <18 Years Old	rounddown(datediff([dob], 'now', 'y'))<18	n
Name Changes	([baseline_arm_1][first_name] <> [6month_followup_arm_1][first_name]) or ([baseline_arm_1][last_name] <> [6month_followup_arm_1][last_name])	n

…And Many More Features!

- Auto-numbering of repeating instances in data imports
- Ability to save the PDF of a completed survey to a File Upload field
- File Upload and Signature fields may now be used in piping.
- Piping now works in the "src" attribute of HTML image tags
- “Re-evaluate Auto Invitations” and “Re-evaluate Alerts” buttons
- Setting to ”Keep the Survey Queue hidden from participants?”
- New options to filter and export logs by specific date ranges
- Descriptive fields can now be embedded with field embedding
- New notification options in the Data Resolution Workflow

To see the full release notes, please look at our website at
tuftsctsi.org/research-services/informatics/redcap-research-electronic-data-capture/

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Request a REDCap Account

To request a REDCap user account or receive other REDCap support, please follow the Request Services link located on our website at www.tuftsctsi.org and we will contact you within 48 hours.

Thank you!

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