REDCap 10.6 Changes and Improvements:

- **Date calculations with @CALCDATE** - Performs a date calculation by adding or subtracting a specified amount of time from a specified date or datetime field - e.g., @CALCDATE([visit_date], 7, 'd').

    o The first parameter inside the @CALCDATE() function should be a date / datetime field

    o The second parameter is the amount to be offset (to subtract, use a negative number)

    o The third parameter is units, which can be 'y' (years), 'M' (months), 'd' (days), 'h' (hours), 'm' (minutes), or 's' (seconds). (Units must be wrapped in quotes.)

- **Text calculations with @CALCTEXT** - Evaluates logic that is provided inside a @CALCTEXT() function and outputs the result as text - e.g., @CALCTEXT(if([gender]='1', 'male', 'female')).

- **New text functions** to manipulate text, including in @CALCTEXT calculations**:**

    o *left (text, number of characters)* - Returns the leftmost characters from a text value

    o *right (text, number of characters)* - Returns the rightmost characters from a text value

    o *length (text)* - Returns the number of characters in a text string

    o *find (needle, haystack)* - Finds one text value within another. (Not case sensitive.) Returns the position of the text if it is found; otherwise returns blank.

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

    o *concat (text,text,...)* - Combines the text from multiple text strings into a single value

    o *upper (text)* - Converts text to uppercase

    o *lower (text)* - Converts text to lowercase

    o *trim (text)* - Removes any spaces from both the beginning and end of a text value

- **@PREFILL** action tag allows you to set a field to a value every time a page loads using the format @PREFILL='value'. For instance, you can use @PREFILL='SID[study_id]' to combine a patient's study id with a prefix.

- The ability to **Import** and **Export Data Access Groups** (DAG's), **DAG Assignments**, and **Data Quality Rules** using .csv (Excel) spreadsheets

- The ability to **select** / **change multiple fields** by holding Ctrl, Shift, or Cmd

- The ability to **embed Descriptive field** with Field Embedding (can be used with **Branching Logic** to show contextual messages in different places on the page)

- Variables can now be piped into the "src" attribute of HTML image tags (<img>)

- New options for **filtering logs by date ranges**, which can be used in exports of the logs

- **New logic editor** for conditional logic, branching logic, calculations, and report filters

- **Auto-numbering** of repeating instances in data imports by using the value 'new' in the "redcap_repeat_instance" column

- New survey option "**Save a PDF of completed survey response to a File Upload field**"

- **File Upload** and **Signature** fields may now be used in piping. The field's numerical value will be piped by default, but you may pipe the filename by appending the ':label' (ie, [variable:label])

- "**Re-evaluate Auto Invitations**" button in the online designer and "**Re-evaluate Alerts**" button on the Alerts & Notifications page to send invitations / alerts when you change the logic

- "**Keep the Survey Queue hidden from participants**?" setting in the Online Designer

- New **notification options** in the **Data Resolution Workflow**