Using the Data Quality Module
Today’s Agenda

• Challenges to data collection
• REDCap’s role in improving data quality
• Features that assist in data cleaning
• Data Quality Module
Keying Errors

Structural Changes

Distractions
REDCap has built-in tools to help ensure that the data you intended to collect in REDCap are what is actually entered.
REDCap has built-in tools to help ensure that the data you intended to collect in REDCap are what is actually entered.
REDCap features help improve data quality by locating incorrect or questionable data.

Built-in tools help you easily correct it, with thorough documentation at every step.

Garbage in, garbage out.

Using validation, branching logic, and the data cleaning applications can improve data quality at the front end.
Data Quality Module

• It IS
  • A companion to the Report Builder & Stats Tool
  • A quick way to identify data gaps & errors
  • Going to require some familiarity with the data dictionary

• It is NOT
  • A replacement for statistical analyses
  • As quick to learn as other data cleaning features
About real-time execution...

- ONLY custom rules can be enabled for real-time execution. The pre-defined rules (A-G) can only be executed from within the module.

- You must be logged into REDCap to leverage the module during data entry. Real-time execution doesn’t work when a respondent is taking a survey.

- Real-time execution works during manual data entry, when you click any ‘save’ button. Execution isn’t triggered during importing (even via API).
Other tips and tricks...

- To use “today” syntax, you MUST use datediff:
  \[
  \text{datediff}("\text{today}",[\text{variable}],"y", \text{true}) > 0
  \]

- Longitudinal project? Put the unique event name before the variable name:
  \[
  [\text{enroll\_arm\_1}][\text{lab4}] < [\text{screen\_arm\_1}][\text{lab1}]
  \]

- Two major advantages over reports – using ‘or’ statements and searching between two values

- Identify exclusions (and coming soon...annotate them!)
For help and questions:

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