# A Guide to Spinning up Projects to use DTS

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#### DTS

 The REDCap DTS module allows data to be pushed into REDCap projects from external systems (e.g. electronic medical record system, electronic data warehouse) and provides an adjudication process whereby REDCap users approve all incoming data from DTS before it is officially saved in their REDCap project.

- Determine if the project meets DTS requirements
  - A. Is the project in production and in use?
  - B. Do we have access to the data they want to pull into REDCap?
  - C. Does each subject have a Medical Record Number and is it formatted correctly?

#### Step 1: Continued

- D. Is there a date field that corresponds to when the data was obtained (ex. Date labs were drawn for a particular subject)? If longitudinal, is there a date associated with each event.
- E. Determine the type of query needed
  - A. Normal Find all values in a particular date span
  - B. Closest to Find the closest value to a particular date over the last X number of days
- F. Ask if those who will be viewing the clinical data have access to our clinical information system (verify in future step)

- Projects with IRB proposal:
  - Send them the DTS text to submit for amendment

- Send Mappings Template for user to fill out
  - Contains columns for:
    - Lab test name
    - REDCap field name
    - Date field
    - Event (for longitudinal projects)

#### Testing

- Clone project to staging server
- Create DTS transfer and mappings
- Run DTS for the project
- Fix any errors and determine if DTS was successful, pulled in correct data, and matched to correct fields

- Meet with all users who will adjudicate data
  - Show them how the adjudication screens look like and what they need to do
  - Verify that each user has access to our enterprise clinical system
    - A requirement of our privacy group

#### DTS – Adjudication Page



#### Instructions for Data Adjudication

Automatically collected data from other institutional source systems are displayed in the Adjudication Data Table below.

For each data point below you must assign a Status:

Select Accepted when the data values displayed should be imported into the database.

Select Rejected when the data has a service date that indicates it does not correspond to the database.

Select Pending if you wish to review the data at a later time.

After adjudicating the data, click the Review Data button at the bottom of the page to review your selections.

#### KEY for Adjudication Data Table Below

existing data in REDCap for this event & patient with same values

existing data in REDCap project for this event & patient with discrepant value(s)

source system data that was recommended prior to an event date change in REDCap



# DTS – Adjudication Page



- Production Testing (similar to step 3)
  - Necessary step because users do not have access to our staging server to test
    - Clone project
    - Create DTS transfer and mappings
    - DTS cron job runs
    - User adjudicates data for a number of patients
      - Verifies that the data pulled matches what is in the clinical system
      - Verifies that data saved to REDCap appears in the correct place
    - Make any necessary changes

- Production
  - Change mappings to point to real production project
  - Delete cloned project

- Future
  - Make changes as needed