## Flight Tracker Consortium Meeting

November 2, 2022



www.edgeforscholars.org



https://redcap.link/flight\_tracker

#### **Meeting Agenda**



#### What's New?

Email Highlights
Scholar Resource Use
Major Potential Bug with Data Dictionary Upgrades

**Deep Dive:** Uploading Data from CSVs

What's Next?

**Downloading Grants from the Dept. of Education** 

Office Hours with Rebecca & Scott



# What's New?

#### **Email Highlights**



#### Flight Tracker Cron Report



o noreply.flighttracker@vumc.org <noreply.flighttracker@vumc.org>

To: O Pearson, Scott James; O Wright, Verna N

Sunday, October 23, 2022 at 8:39 PM

#### **Flight Tracker Nightly Update**

Project: Flight Tracker - Hearing & Speech Sciences (Faculty)

PID: 143789

Server: https://redcap.vanderbilt.edu/api/

#### **Impact**

#### 13 New PubMed Publications

For Scholars: Stephen Camarata, Michael De Riesthal (4), Melissa Duff, Rene Gifford, Jourdan Holder, Ben Hornsby (2), Gary Jacobson, Alexandra (Sasha) Key, and Richard Roberts

#### **Total Number of Impacted Records**

11

#### **Overnight Cron Jobs Run**

#### getPubs (3 Batches)

Succeeded 10 Records (1 - 10) Start: 2022-10-22 20:28:24 End: 2022-10-22 20:33:16

Succeeded 10 Records (11 - 20) Start: 2022-10-22 20:35:13 End: 2022-10-22 20:40:49

Succeeded

#### **Email Highlights**



#### Contains a summary of jobs run & a description of impact

- Names of people who downloaded grants, publications, or patents
- Links to REDCap
- Counts of records impacted
- Citations of high-impact papers (RCR > 8 or Altmetric Score > 100)
- If < 20 grants downloaded, show quick summaries of new grants (budget, dates)
- In development: What would you like to see?



#### Scholar Resource Use



- Wanted easy, attractive way to view who's used what resource
- Under Resource → Scholar Resource Use (v4.18.1)

				Edge f	or Scholars			VICTR				
	Shut Up and Write	Manuscript Sprint	Science of Writing		Grants Repository - Shared	Grants Repository - Accessed After 1/1/2021	Grant Pacing		Studio	Community Engage Studio	Pathways Studio	Pilot Funding
Khaled A Abdel- Kader				<b>~</b>			1	11				1
Ty W Abel				✓								1
Robert L Abraham				✓					1			✓
Melinda C Aldrich	1	11		1	1		1	11	111			1111
Peggi M Angel		1		1		J	1			1		
Amy C Arnold				1					11			111
Donald H Arnold			1	1	4	✓	1	44	111			4 4 4 4 4 4 4 4 4 4 4 4

#### **Major Potential Bug**



- 2 reports of issues with upgrading the Data Dictionary / Metadata (most complex process)
- Entire Data Dictionary will be erased; data will remain but become inaccessible
- v4.18.4 (out last Saturday) has a proposed fix to recover metadata
- Root cause remains unknown → inserted hidden, automatic reporting of failures of metadata upgrade
- Please contact <u>scott.j.pearson@vumc.org</u> if you encounter this issue



#### **Major Bug**





- v4.18.1 was misinterpreting apostrophes and ampersands
- Important impacts:
  - Scholar names like O'Neil and O'Connor
  - Institution names like Brigham & Women's, Children's Hospital
- Manifestations:
  - Dozens/hundreds of publications are incorrectly downloaded to records
  - Grant Wrangler is non-operative
- Fixed in **v4.18.4** (out last Saturday). A clean-up script is automatically run to delete incorrect data. Upgrading the software will fix it within 24 hours. You do not need to do anything besides upgrade. Skipping v4.18.1 completely will also bypass this issue.



# **Deep Dive**Uploading Data from CSVs

### **Using Spreadsheets in REDCap**



Spreadsheets can upload data into REDCap.

#### Cons (-)

- Not a friendly interface
- More cumbersome with smaller datasets
- Funky file formats
- Hard to implement in web browser

#### **Pros** (+)

- Quicker to input larger amounts of information
- Easier to sort
- Easier to run calculations
- Good, easy-to-read storage format



#### **CSVs**





- Comma-Separated Values
- Save in plain-text format
- Can open with a text editor
  - Commas and quotes
- Can also open with any spreadsheet program (Excel, Numbers)
- Relatively small file size

#### Flight Tracker Forms



- Identifiers names, institutions, emails, etc.
- **Summary** generated by computer; changes will be overwritten once a week; "the computer's best guess"
- Initial Import, Manual Import where admins can write demographics; input once
- Initial Survey, Followup surveys that are input by scholars
- Position Change, Manual Degree, Custom Grant where admins can input career traits; repeating
- Citation, NIH Reporter, Patent, etc. Downloaded

(Red = forms for you to put in)

#### **CSVs & Flight Tracker**

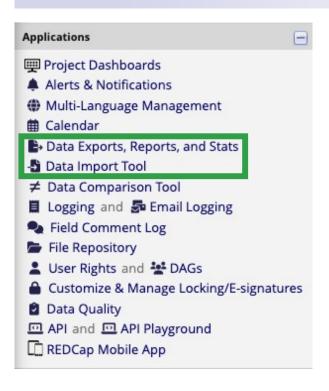


#### **Multiple Options**

- REDCap Data Exports & Data Import Tool
- Add New Scholars intake form
- Import General Data forms for you to put in (cf. red on previous slide)
- NIH Training Tables upload prior training tables

#### **REDCap Tools**





Left-hand toolbar in REDCap

If missing, make sure permissions are added in User Rights

## Data Import Tool & Data Exports

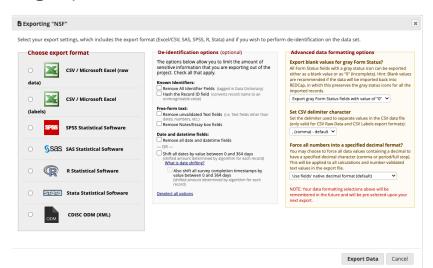


- Most important column: Record ID/record\_id ties to a particular record while hiding personal information
- Every field gets its own column
- Repeating instances add two columns
  - redcap\_repeat\_instrument form name (blank if not repeating)
  - redcap\_repeat\_instance instance number (blank if not repeating)
  - Columns not on the repeating instrument remain blank
- Difficulty: Flight Tracker has thousands of fields (bulky)
- Advantages: Good for small sets of data; simple; reliable; well-used

#### **Data Exports/Reports**



- See last month's Deep Dive for how to compile a custom report
- Generates a table
- Can export to CSV (or to statistical packages)
  - Raw Data = field names (with underscores, computer language)
  - Labels = field labels (human language; can be verbose)
  - Again, readable by any spreadsheet program (like Excel)
- Can leave other options unchecked

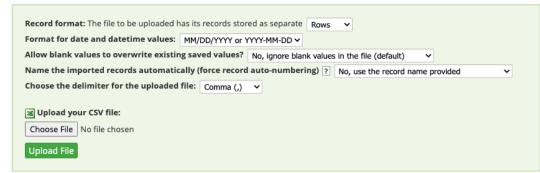


#### **Data Import Tool**



#### **Pro Tips**

- Delete empty rows
- Can add instances as "new" to autonumber the instances



• Multiple choice fields (dropdown, radios) must have value instead of the label.

#### Data Import Tool – Steps



- 1. Make the CSV same format as Data Exports
  - Pro Tip: Export the fields that you want to import; clear out the data, and use the format to import
  - Use Raw Data field names (computer language)
  - Don't use REDCap's "Data Import Template" will have too many fields
- 2. Upload the CSV
- 3. Adjudicate final review to make sure REDCap understands your wishes properly (not finalized yet)
- 4. Commit Changes finalize



#### Flight Tracker Intake Form



- Downloadable either during the installation or on the Add a New Scholars page – "Template" or "this example"
- Most important fields are names and institutions
- Provides other general demographics, ORCID, and mentor
- Provide labels for values (options in brackets)
- Uploads to Manual Import form

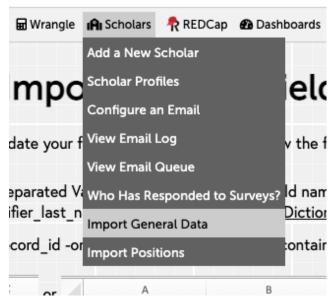


#### **Import General Data**



Great for **new** Flight Tracker Data, like:

- Custom Grants
- Position Changes
- Degrees
- Initial Import
- Manual Import
- Your own forms



#### **Import General Data: Setup**



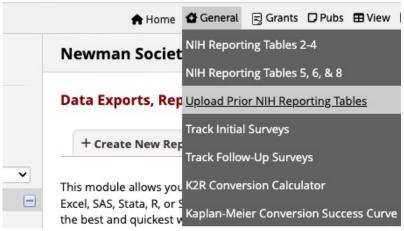
- Matches on either:
  - Record ID (record\_id)
  - First and last name (identifier\_first\_name and identifier\_last\_name)
- Automatically handles numbering of repeating instances
- Meant to be an easier option to Data Import Tool

	A		В	С	D
1	identifier_l	ast_name	identifier_first_name	field_1	field_2
	A	В	С		

#### **NIH Training Tables**







#### **Currently Supported Tables**

- Table 2 Faculty
- Table 4 Faculty Research Support
- Table 5A Predoc Pubs
- Table 5B Postdoc Pubs
- Table 8A Predoc Outcomes
- Table 8C Postdoc Outcomes

## **NIH Training Tables**



#### Upload Prior Years to Flight Tracker: Tables 2, 4, 5 & 8 Convert prior years' data into Flight Tracker. Warning: Automatically looking up the publications for Table 5 can take some time. Status Upload File → Adjudicate → Upload to REDCap Remaining Work: 0 issues REDCap Rows Ready to Upload: 0 (Uploads complete only at end of adjudication.) Upload a CSV Below to Begin Start a New Upload Table: ---SELECT---Date When These Tables Were Submitted: mm/dd/yyyy 📋 What is the Award Number for this Grant? File with Table as CSV (Comma-Separated Values): Choose File No file chosen Upload CSV

#### **NIH Training Tables: Steps**



#### Translates into Flight Tracker/REDCap format

- 1. Upload CSV with one row per scholar (rows can have multiple lines)
  - Note: Table 5 looks up publications in PubMed to ensure proper formatting; this can take a few minutes for larger projects
- 2. Adjudicate issues as directed review step
- 3. Upload to REDCap finalize



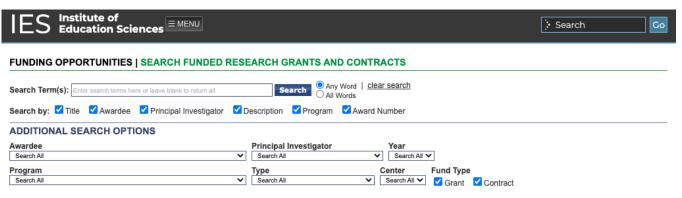


# What's Next?

#### **Education Grants**



- Current: Download grants from all federal agencies (health & NSF)
   ...except Department of Education
- The Institute of Education Sciences (IES) has a way to search Funded Grants & Contracts (but no API, only through web)
- Potential support to track educators & CTSA's educational mission





## **Upcoming Deep Dive Topics**



**December:** All about REDCap Forms

**January:** The Metrics of Mentoring

February: Celebrating, Wrangling,

& Analyzing Grants



#### **Troubleshooting Call**



## **Monthly Troubleshooting Call (optional)**

Third Wednesday at 1pm Central Time November 16, 2022

**Driven by Your Questions & Problems** 

All are welcome!

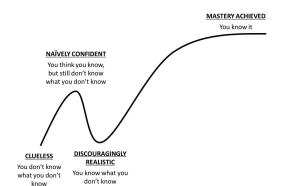
Ask to join our email list for an invitation...



#### **Newbie Call**



## Just getting started with Flight Tracker?



There's a definite learning curve.

Move up more quickly by joining **November's "newbie" call**.

Thursday, November 10, at 12pm Central Time [Monday, December 12, at 10am Central Time]

Leave your email in the chat to receive an invitation

## Office Hours with Rebecca & Scott





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