# Flight Tracker Consortium Meeting

May 1, 2024

EDGE FOR SCHOLARS

www.edgeforscholars.org

@EdgeForScholars

https://redcap.link/flight_tracker

# Meeting Agenda

Current Version:
**v6.10.1**

## What's New?

Getting Started Workshops
Descriptions of Flight Tracker Instruments
New Vanderbilt REDCap Server

## Deep Dive: Exporting Useful REDCap Reports

## What's Next?

New Getting Started Workshop
Spring 2024 Projects

FLIGHT TRACKER for scholars

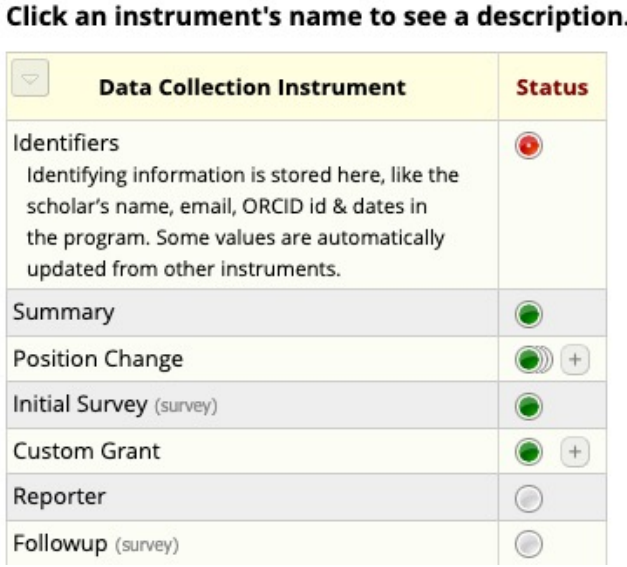
# What's New?

# Getting Started Workshops

- We've done two Getting Started Workshops, following each month's "newbie" call
- These are roll-up-your-sleeve sessions to expedite initial issues
- Well-attended & lots of good feedback
- We are working to move the "newbie" call to an educational module and then have these workshops as monthly follow-up
- Invites freely available upon request

# REDCap Instrument Descriptions

- Strong feedback from Getting Started Workshop: "How do we know what these dozens of REDCap instruments are for?"
- To access: REDCap → Add/Edit Records → Choose Record ["Record Home" page]
- After **v6.10.0**, if you click on an instrument's name, you'll receive a short description.



# New Vanderbilt REDCap Server

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- Due to institutional business structures, redcap.vanderbilt.edu is changing to redcap.vumc.org
- For several years, both URLs will be active
- For the most part, little impact to most Flight Tracker users
  - In **v6.10.1**, the new server will be referenced
  - **If you have a network firewall in place, you might need to contact your network team to add redcap.vumc.org to the "allow list"**
  - Feel free to pull me in if there are technical issues
  - This portion supports automated reporting of statistics so that we can receive funding for Flight Tracker

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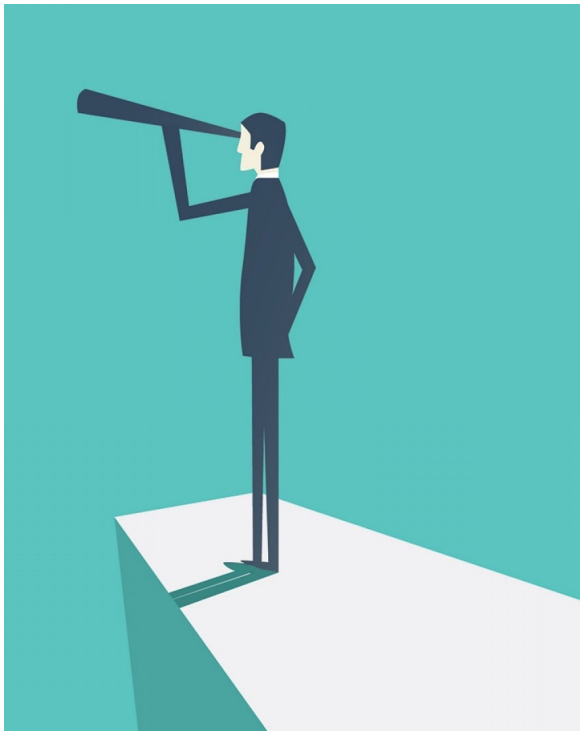
# Deep Dive

## Exporting Useful REDCap Reports

# Introduction

FLIGHT TRACKER for scholars

- Available Data
- Configuring a Report
  - Fields: Prefixes & Repeating Instruments
  - Filtering Logic
  - Excluding Blank Rows
  - Live Filters
- Exporting Data to a Spreadsheet
- Interesting Filtering Options
- Hidden Pearls



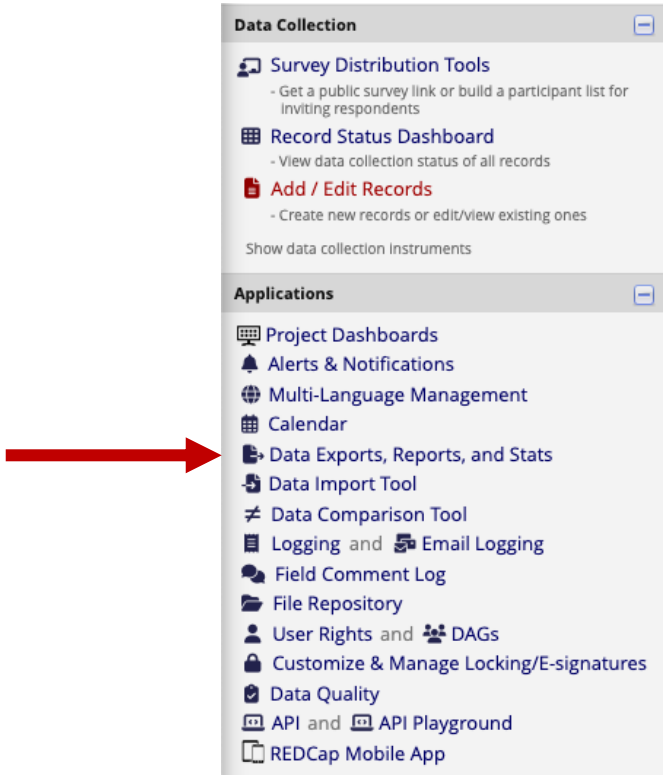
# Available Data

FLIGHT TRACKER for scholars

- Identifiers – identifying info
- Summary – the computer's best guess
- Publications, Grants & Patents
- Honors, Awards & Activities
- Position Changes
- Degrees
- Surveys – from scholars
- Mentoring Agreements

# Where to Access Reports?

- Go into the REDCap side
- Left-hand toolbar
- Data Exports, Reports, and Stats



# Where to Access Reports?

FLIGHT TRACKER for scholars

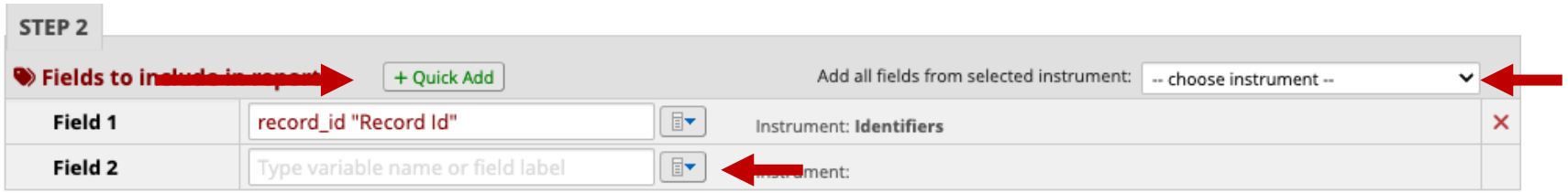
- Prior Reports
- Don't use "All Data" – too much
- **Create New Report**

**My Reports & Exports**

| | | Report name | View/Export Options | Management Options | Report ID (auto-generated) | Unique report name (auto-generated) |
|---|---|---|---|---|---|---|
| | A | **All data** (all records and fields) | View Report · Export Data · Stats & Charts | | | |
| | B | **Selected instruments** (all records) | Make custom selections | | | |
| | 1 | Depts and Divisions | View Report · Export Data · Stats & Charts | Edit · Copy · Delete | 29 | R-268WKHF7LA |
| | 2 | Gender | View Report · Export Data · Stats & Charts | Edit · Copy · Delete | 30 | R-4147C3JAAE |
| | 3 | Citation Dates | View Report · Export Data · Stats & Charts | Edit · Copy · Delete | 31 | R-9229PF98WC |
| | | + Create New Report | | | | |

# Adding Fields to a Report

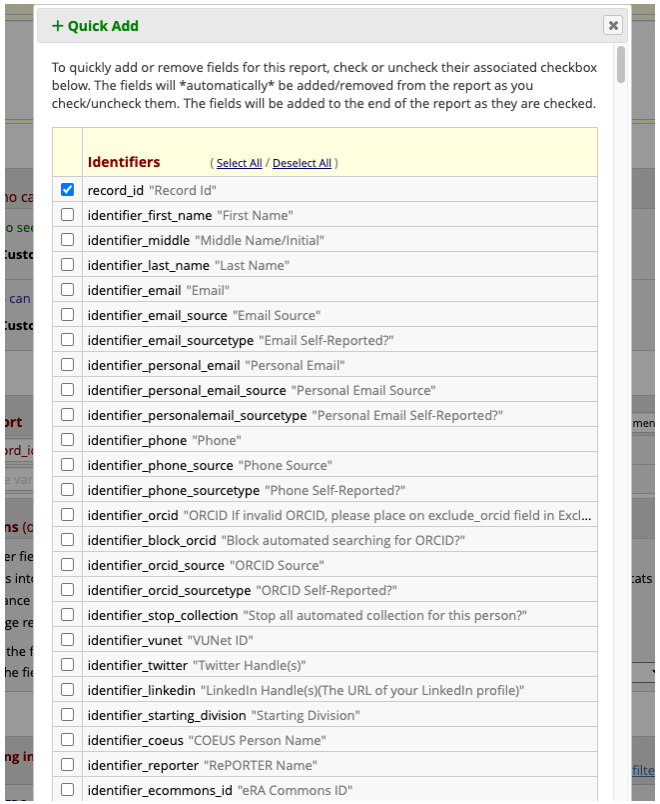
# Adding Fields to a Report: Step 2




## Three Options to Add Fields

- Quick Add: Check off a field, but from a long list
- Selecting a field from the dropdown
  - You can type in a field [autocomplete]
  - Or you can select from a long list [not recommended]
- Or you can add an entire instrument

# Quick Add




- Long list
- 1,000+ fields, in order
- If you know what you're looking for, Control-F to find a word in the browser can expedite significantly

# Prefixes

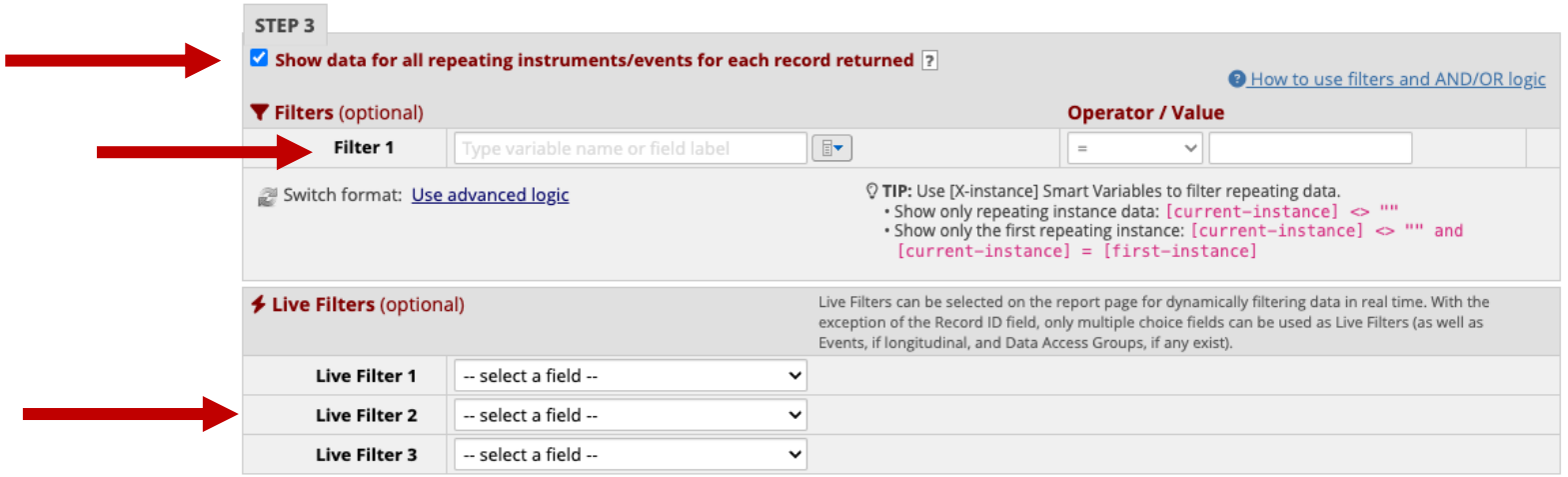
- To organize, each instrument has its own prefix for all of its fields, *e.g.*,
  - identifier_ - Identifiers
  - summary_ - Summary
  - citation_ - Citation [publications]
  - promotion_ - Position Change
  - check_ - Initial Survey
  - nih_ - NIH Reporter

- Some make clear sense, but others don't because of historical changes [in other words, my shortsightedness]

# Output: Repeating Instruments

- Flight Tracker aggressively uses REDCap's repeating instruments
- That is, often, you can have more than one instance of a form
- For each record, the REDCap Report will display:
  - One instance per row for each repeating instance
  - All non-repeating items on a single long row

# Filtering Logic: Step 3



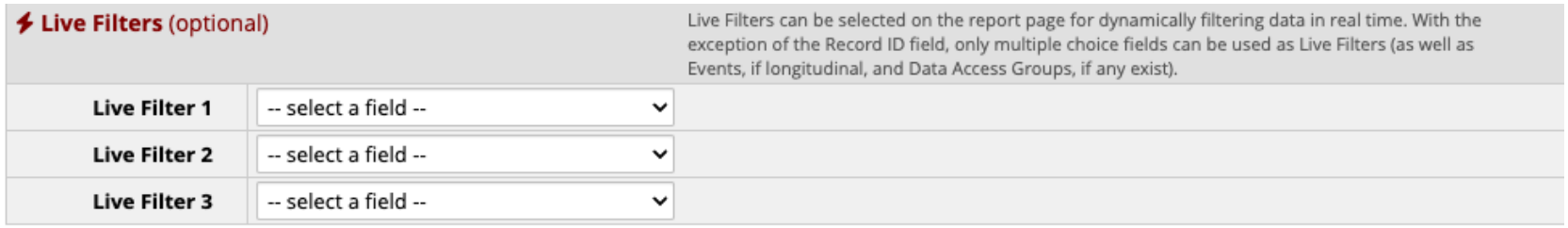

- Filter Logic
- Live Filters [optional]
- Show data for all repeating instruments for each record returned [***uncheck checkbox for clarity]

# Filter Logic

- Use same fields as in Step 2
- Set value of field [=, >, <, contains, etc.]
- Boolean logic: and/or's
- The following shows all wrangled publications since March 2020 for under-represented minorities and women

| | | | | | |
|---|---|---|---|---|---|
| | **Filter 1** | citation_date "Date of Publication" | > | 2020-03-01 Y-M-D | ✕ |
| | AND | | | | |
| | **Filter 2** | citation_include "Include?" | = | Yes | ✕ |
| | AND | | | | |
| | **Filter 3** | summary_urm "Is part of a Under-Rep | = | Yes | ✕ |
| OR | **Filter 4** | summary_gender "Gender Identity" | = | Female | ✕ |

# Live Filters [up to 3]




- Three options to filter in/out data based on the value of **just one field**
- I rarely use this, but it's available if it helps

# Displaying the Table

- Click Save Report at the bottom & wait

| | | | |
|---|---|---|---|
| 16 Julie Bastarache | Citation | 127 | Shimoda LA, Bai C, Bartlett NW, Bastarache JA, Feghali-Bostwick C, Kuebler WM, Prakash YS, Schmidt EP, Morty RE. Announcing the Editorial Board Fellowship Program of the . Am J Physiol Lung Cell Mol Physiol. 2021 July 01; 321(1):L116-L118. doi:10.1152/ajplung.00239.2021. |
| 16 Julie Bastarache | Citation | 128 | Meegan JE, Bastarache JA, Ware LB. Toxic effects of cell-free hemoglobin on the microvascular endothelium: implications for pulmonary and nonpulmonary organ dysfunction. Am J Physiol Lung Cell Mol Physiol. 2021 August 01; 321(2):L429-L439. doi:10.1152/ajplung.00018.2021. |
| 16 Julie Bastarache | Citation | 129 | Bastarache JA, McNeil JB, Plosa EJ, Sucre JS, Kerchberger VE, Habegger LE, Weddle E, Sullivan B, Meegan JE, Wickersham NE, Shaver CM, Ware LB. Standardization of methods for sampling the distal airspace in mechanically ventilated patients using heat moisture exchange filter fluid. Am J Physiol Lung Cell Mol Physiol. 2021 May 01; 320(5):L785-L790. doi:10.1152/ajplung.00595.2020. |
| 16 Julie Bastarache | Citation | 136 | Bastarache JA, Smith K, Jesse JJ, Putz ND, Meegan JE, Bogart AM, Schaaf K, Ghosh S, Shaver CM, Ware LB. A two-hit model of sepsis plus hyperoxia causes lung permeability and inflammation. Am J Physiol Lung Cell Mol Physiol. 2021 December 22. doi:10.1152/ajplung.00227.2021. |
| 16 Julie Bastarache | Citation | 142 | Gandhi VD, Cephus JY, Norlander AE, Chowdhury NU, Zhang J, Ceneviva ZJ, Tannous E, Polosukhin VV, Putz ND, Wickersham N, Singh A, Ware LB, Bastarache JA, Shaver CM, Chu HW, Peebles RS, Newcomb DC. Androgen receptor signaling promotes Treg suppressive function during allergic airway inflammation. J Clin Invest. 2022 January 13. doi:10.1172/JCI153397. |
| 16 Julie Bastarache | Citation | 189 | Kulkarni HS, Lee JS, Bastarache JA, Kuebler WM, Downey GP, Albaiceta GM, Altemeier WA, Artigas A, Bates JHT, Calfee CS, Dela Cruz CS, Dickson RP, Englert JA, Everitt JI, Fessler MB, Gelman AE, Gowdy KM, Groshong SD, Herold S, Homer RJ, Horowitz JC, Hsia CCW, Kurahashi K, Laubach VE, Looney MR, Lucas R, Mangalmurti NS, Manicone AM, Martin TR, Matalon S, Matthay MA, McAuley DF, McGrath-Morrow SA, Mizgerd JP, Montgomery SA, Moore BB, NoÃ< . Update on the Features and Measurements of Experimental Acute Lung Injury in Animals: An Official American Thoracic Society Workshop Report. Am J Respir Cell Mol Biol. 2022 February; 66(2):e1-e14. doi:10.1165/rcmb.2021-0531ST. |
| 16 Julie Bastarache | Citation | 195 | Bos LDJ, Laffey JG, Ware LB, Heijnen NFL, Sinha P, Patel B, Jabaudon M, Bastarache JA, McAuley DF, Summers C, Calfee CS, Shankar-Hari M. Towards a biological definition of ARDS: are treatable traits the solution?. Intensive Care Med Exp. 2022 March 11; 10(1):8. doi:10.1186/s40635-022-00435-w. |
| 16 Julie Bastarache | Citation | 201 | Putz N, Gibson D, Jesse J, Newcomb D, Bastarache J. Effect of prolonged lipopolysaccharide exposure on lung function and health. FASEB J. 2022 May; 36 Suppl 1. doi:10.1096/fasebj.2022.36.S1.L7588. |
| 16 Julie Bastarache | Citation | 202 | Baer B, Putz ND, Gibson D, Toki S, Peebles S, Cahill KN, Bastarache JA. Liraglutide as a Prophylactic Treatment for Sepsis Induced Lung Inflammation and Edema. FASEB J. 2022 May; 36 Suppl 1. doi:10.1096/fasebj.2022.36.S1.L7447. |
| 16 Julie Bastarache | Citation | 203 | Meegan JE, Tomasek T, Desco A, Ware LB, Bastarache JA. Cell-free Hemoglobin-Oxidized LDL Axis Contributes to Microvascular Endothelial Barrier Dysfunction and Poor Outcomes During Sepsis. FASEB J. 2022 May; 36 Suppl 1. doi:10.1096/fasebj.2022.36.S1.R2230. |
| 16 Julie Bastarache | Citation | 204 | Riedmann KJ, Conger AK, Meegan JE, Ware LB, Bastarache JA. Cell-Free Hemoglobin Increases Leukocyte Adhesion and Mitochondrial Oxidative Damage in the Pulmonary Microvascular Endothelium. FASEB J. 2022 May; 36 Suppl 1. doi:10.1096/fasebj.2022.36.S1.R3710. |
| 16 Julie Bastarache | Citation | 205 | Schaaf KR, Buggs CJ, Putz ND, Langouet-Astrie CJ, Jetter CS, Nigretti NM, Sucre JMS, Schmidt EP, Bastarache JA, Shaver CM. Influenza A Virus Causes Shedding of the Alveolar Epithelial Glycocalyx through Activation of Sheddases. FASEB J. 2022 May; 36 Suppl 1. doi:10.1096/fasebj.2022.36.S1.R2462. |
| 16 Julie Bastarache | Citation | 206 | Blondonnet R, Simand LA, Vidal P, Borao L, Bourguignon N, Morand D, Bernard L, Roszyk L, Audard J, Godet T, Monsel A, Garnier M, Quesnel C, Bazin JE, Sapin V, Bastarache JA, Ware LB, Hughes CG, Pandharipande PP, Ely EW, Futier E, Pereira B, Constantin JM, Jabaudon M, On Behalf Of The Sesar Collaborative Group . Design and Rationale of the Sevoflurane for Sedation in Acute Respiratory Distress Syndrome (SESAR) Randomized Controlled Trial. J Clin Med. 2022 May 16; 11(10). doi:10.3390/jcm11102796. |
| 16 Julie Bastarache | Citation | 207 | Kerchberger VE, Bastarache JA. : A Step Closer to the Full Picture. Am J Respir Crit Care Med. 2022 June 08. doi:10.1164/rccm.202205-1019ED. |
| 16 Julie Bastarache | Citation | 208 | Meegan JE, Komalavilas P, Cheung-Flynn J, Yim TW, Putz ND, Jesse JJ, Smith KD, Sidorova TN, Lee HNR, Tomasek T, Shaver CM, Ware LB, Brophy CM, Bastarache JA. Blocking P2X7 receptor with AZ 10606120 exacerbates vascular hyperpermeability and inflammation in murine polymicrobial sepsis. Physiol Rep. 2022 June; 10(11):e15290. doi:10.14814/phy2.15290. |
| 16 Julie Bastarache | Citation | 209 | Verdonk F, Feyaerts D, Badenes R, Bastarache JA, BouglÃ© A, Ely W, Gaudilliere B, Howard C, Kotfis K, Lautrette A, Le Dorze M, Mankidy BJ, Matthay MA, Morgan CK, Mazeraud A, Patel BV, Pattnaik R, Reuter J, Schultz MJ, Sharshar T, Shrestha GS, Verdonk C, Ware LB, Pirracchio R, Jabaudon M. Upcoming and urgent challenges in critical care research based on COVID-19 pandemic experience. Anaesth Crit Care Pain Med. 2022 June 30; :101121. doi:10.1016/j.accpm.2022.101121. |
| 16 Julie Bastarache | Citation | 210 | Afzal A, Beavers WN, Skaar EP, Calhoun MC, Richardson KA, Landstreet SR, Cliffel DE, Wright D, Bastarache JA, Ware LB. Ultraviolet light oxidation of fresh hemoglobin eliminates aggregate formation seen in commercially sourced hemoglobin. Blood Cells Mol Dis. 2022 August 15; 98:102699. doi:10.1016/j.bcmd.2022.102699. |
| 16 Julie Bastarache | Citation | 211 | Consoli DC, Spitznagel BD, Owen BM, Kang H, Williams Roberson S, Pandharipande P, Wesley Ely E, Nobis WP, Bastarache JA, Harrison FE. Altered EEG, disrupted hippocampal long-term potentiation and neurobehavioral deficits implicate a delirium-like state in a mouse model of sepsis. Brain Behav Immun. 2022 October 13; 107:165-178. doi:10.1016/j.bbi.2022.10.003. |

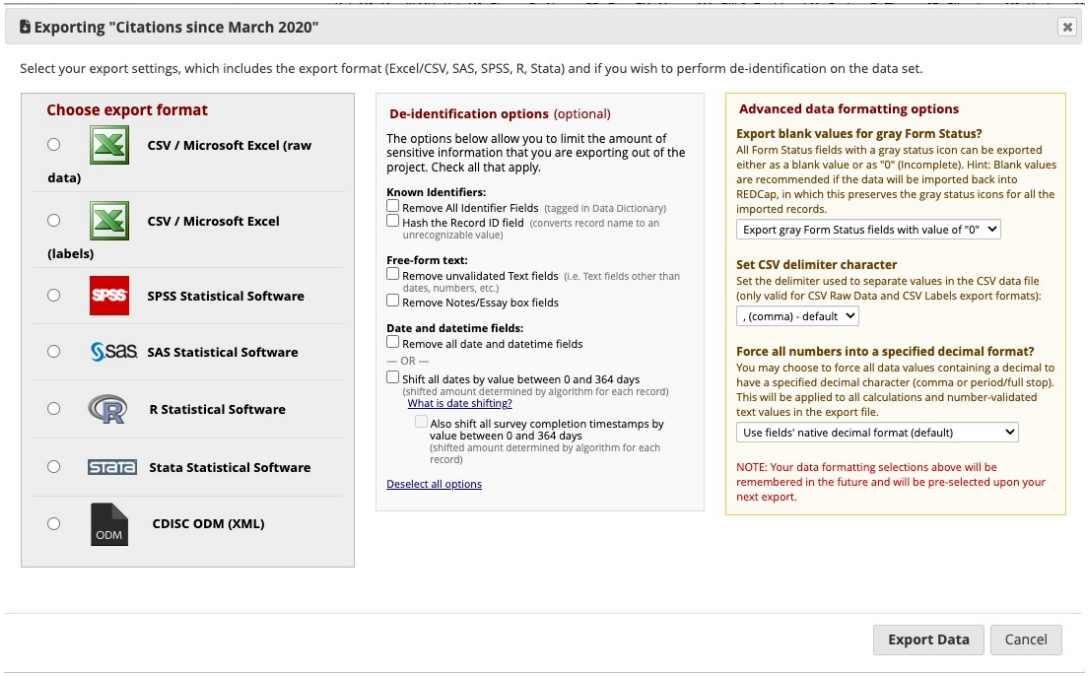
# At Top of Table

- Export Data
- Edit Report [back to configurating]
- Table not displaying properly if table looks wonky

# Exporting Data to a Spreadsheet

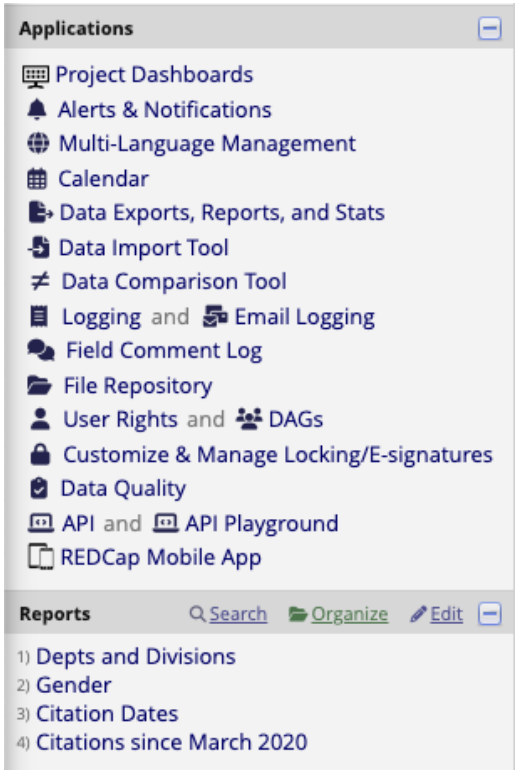
FLIGHT TRACKER for scholars

- Export Data button
- A dialog will appear, but it's often WAY down the page in the middle
- Raw Data = coded field names
- Labels = data labels [can be long]
- Other options for stats
- Then download



# Old Reports

- Appear on REDCap's left-hand toolbar
- You can even group them
- You can make hundreds of reports!



# Interesting Filtering Options

FLIGHT TRACKER for scholars

- K-to-R conversion status [summary_ever_last_any_k_to_r01_equiv]
- Demographics [like Flight Tracker's Cohorts]
- Dates in program
- Specific grant types [e.g., R33 & R61]
- Departments & Divisions
- Trainees for a Mentor
- Honors, Awards & Activities
- Publication criteria

# Hidden Pearls #1: Go to Data

FLIGHT TRACKER for scholars

- The Record ID link will take you to the data

| | | | | |
|---|---|---|---|---|
| 16 | Julie Bastarache | Citation | 189 | Kulkarni HS, Lee JS, Bastarache J/ Gelman AE, Gowdy KM, Groshong Matthay MA, McAuley DF, McGrath An Official American Thoracic Soci |

# Hidden Pearls #2: Names

FLIGHT TRACKER for scholars

- To display names on exports, include:
  - identifier_first_name
  - identifier_last_name
- Then you will be able to see in a spreadsheet whose data you are
- REDCap will show the name next to the record-id, but not in Excel!

# Hidden Pearls #3: Summary Form

FLIGHT TRACKER for scholars

- Summary Form – the computer's best guess
  - Demographics
  - K-to-R conversion status and dates
  - Mentors
  - Career-Defining Awards
- Use these to de-duplicate collected data from surveys & forms
- Start with summary_

# Hidden Pearls #4: Publications

FLIGHT TRACKER for scholars

- Full Citation Information: citation_full_citation
- DOIs can be helpful: citation_doi
- Bibliometrics
  - Relative Citation Ratio: citation_rcr
  - Altmetric Score: citation_altmetric_score
  - Lots of niche fields
- **Set a filter to citation_include = Yes to accept wrangled pubs
- You can filter by date of publication, too

# Hidden Pearls #5: Approach

FLIGHT TRACKER for scholars

- This is a powerful tool… be aggressive!
- Use Edit Report to iterate through mistakes
- Click through multiple pages of tables

# Hidden Pearls #6: Grant Numbers

FLIGHT TRACKER for scholars

- [summary_award_sponsorno#] stores the award number of a larger, Career-Defining Award
  - # = 1, 2, …, 15, so you must iterate the award number
- A great way to search for certain grant types for major grants
- **Alternative for NIH RePORTER**: Search for [nih_project_num]

# Recap

FLIGHT TRACKER for scholars

- Available Data
- Configuring a Report
  - Fields: Prefixes & Repeating Instruments
  - Filtering Logic
  - Excluding Blank Rows
  - Live Filters
- Exporting Data to a Spreadsheet
- Interesting Filtering Options
- Hidden Pearls

FLIGHT TRACKER for scholars

# What's Next?

# Getting Started Workshop

FLIGHT TRACKER for scholars

After each month's newbie call, we're hosting a separate Getting Started Workshop to get the ball rolling on implementation. Questions will center only around starting out. No advanced questions will be discussed.

Our next call will be on **Friday, May 24, at 1pm CT**.

All newbie call participants will be invited.
Let me know if you want an invitation to the next one.

# Spring 2024 Projects

FLIGHT TRACKER for scholars

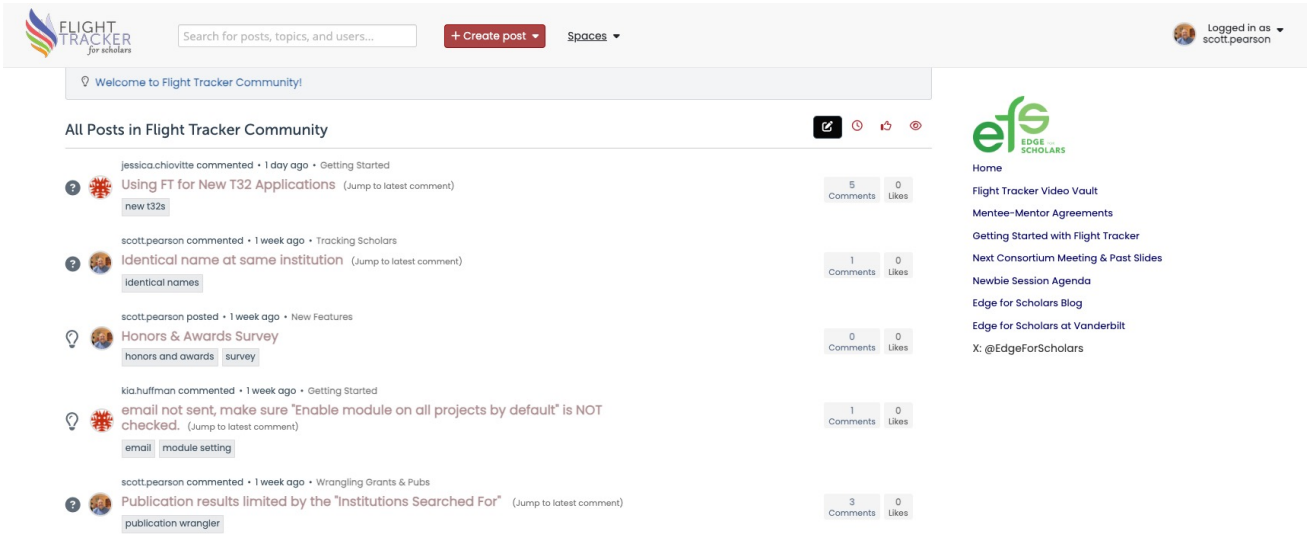
- Exploring an **online video course**
- Tools to **connect scholars**:
  - Better ways to connect mentees to mentors
  - Visual tool to network scholars together
- Writing a **journal article** about Flight Tracker
- **Software improvements**:
  - Non-NIH Grants from Dept. of HHS [TAGGS]
  - Rework hookup to eRA Commons' xTRACT
  - T → K → R conversion
  - Download ORCID Profile [Thanks Nemours!]

# Flight Tracker Community

## Support Forum

**"Better than Email" - Ask me for an Account in the Chat**

https://redcap.vanderbilt.edu/flighttracker/



# Troubleshooting Call

FLIGHT TRACKER for scholars

## Monthly Troubleshooting Call – optional

**Third Wednesday at 1pm Central Time**
**May 15, 2024**

***Driven by Your Questions & Problems***

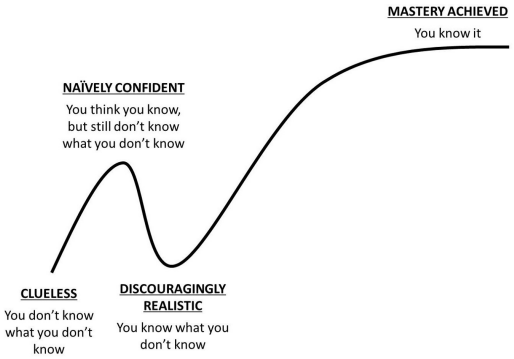
All are welcome!

Ask to join our email list in the chat for an invitation…

# Newbie Call

FLIGHT TRACKER for scholars

## Just getting started with Flight Tracker?




There's a definite learning curve.

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

**Tuesday, May 21, at 1pm Central Time**

**(Thursday, June 20, at noon Central Time)**

Leave your email in the chat to receive an invitation

# Flight Tracker Consortium Meeting

May 1, 2024

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