Flight Tracker Consortium Meeting

June 2, 2021

EDGE FOR SCHOLARS

Meeting Agenda

FLIGHT TRACKER for scholars

CTSA Common Metrics Integration

Ann Schwartz, University of Rochester

What's New? Exclude Lists & Kaplan-Meier Curves

What's Next?

Office Hours with Rebecca & Scott

CLIC Center for Leading Innovation & Collaboration

Careers Metric Pilot with Flight Tracker

CTSA Clinical & Translational Science Awards Program

The University of Rochester Center for Leading Innovation and Collaboration (CLIC) is the coordinating center for the Clinical and Translational Science Awards (CTSA) Program, funded by the National Center for Advancing Translational Sciences (NCATS) at the National Institutes of Health (NIH), Grant U24TR002260.

University of Rochester Medical Center

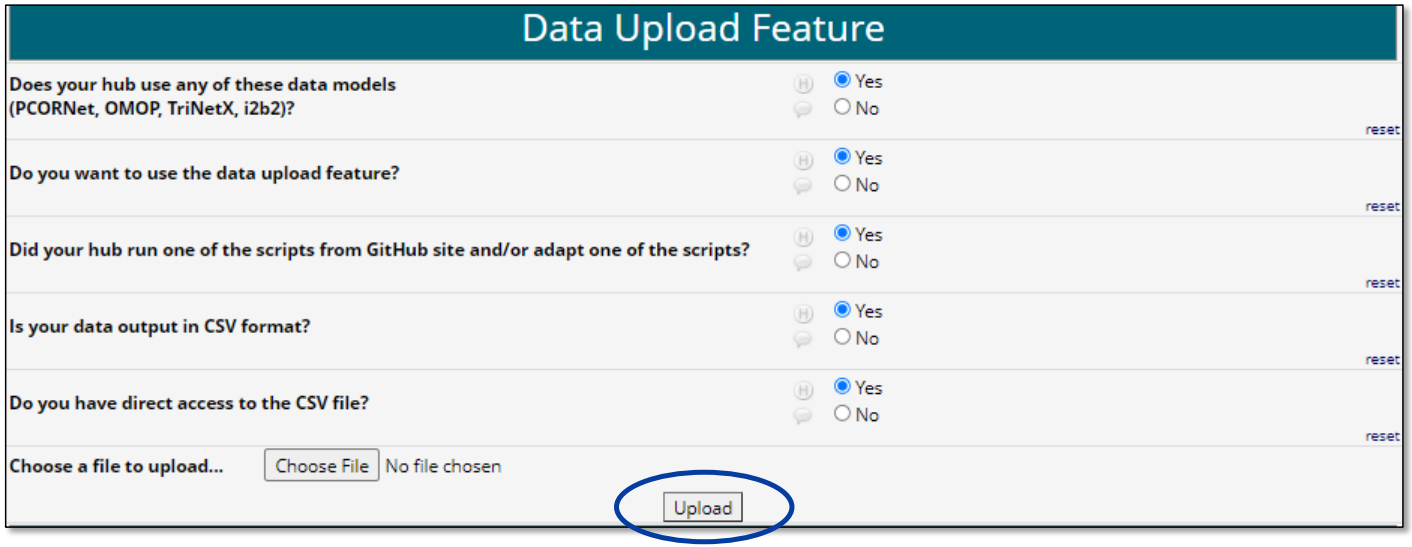
New Reporting Software Application

- Built on REDCap forms
- Ease data entry burden

Program Results to Improve Strategic Management

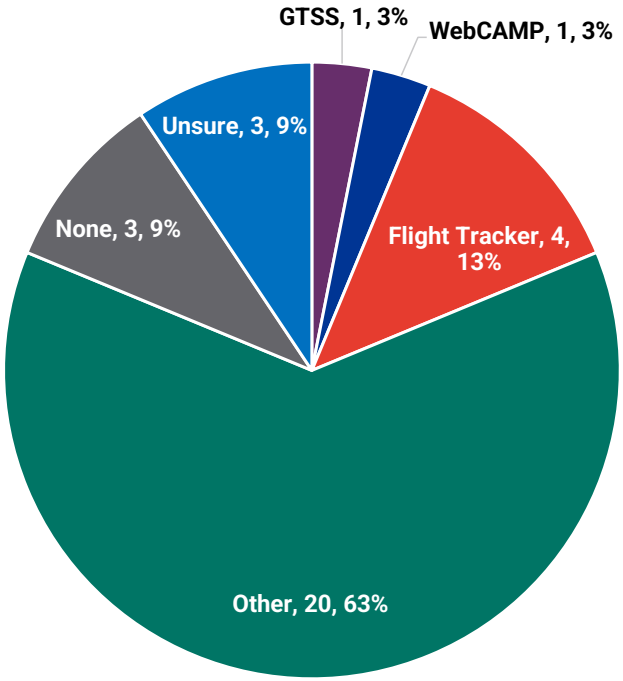
Informatics Process

- Run script based on data model
  - CSV file created
- Data upload feature



Could the Informatics process work with the Careers metric?

What system is your hub using to track scholars & trainees?



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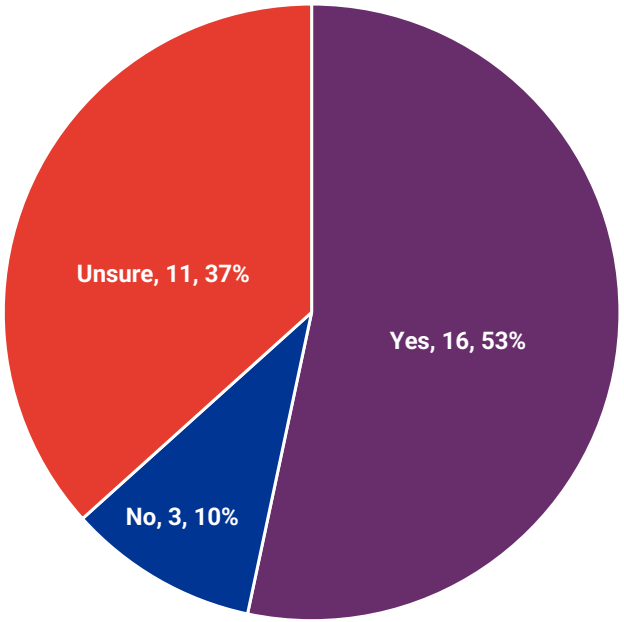
Does your hub intend to implement a scholar and/or trainee tracking system in the next 12 months?



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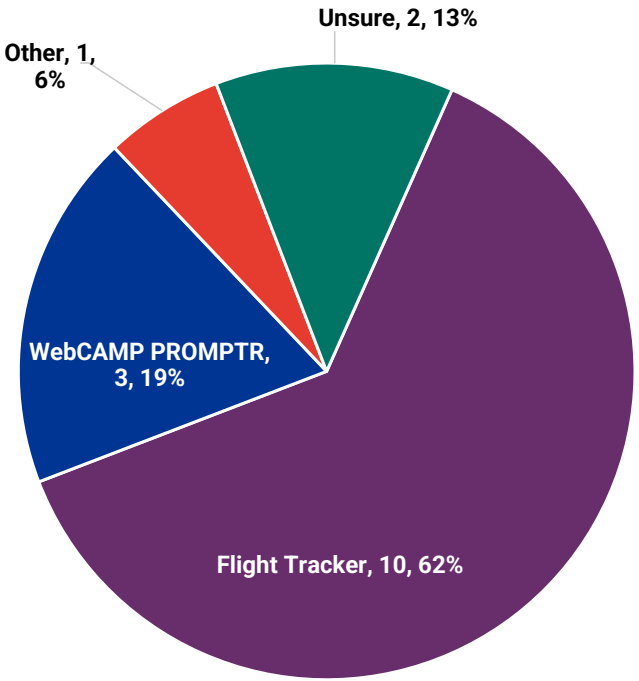
Which system is your hub intending to implement in the next 12 months?



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How can we use this information?

Flight Tracker Pilot

- Use Flight Tracker to generate Career metric csv formatted output
- CLIC test uploading the data into CM-PRISM

Vanderbilt Institute for Clinical and Translational Research

VICTR

What's Next?

- If successful, test with other career tracking systems
  - WebCAMP PROMPTR
  - GTSS
  - Other
- Addition of CM-PRISM Upload button for Careers metric data
- Development of interface for "handshake" between tracking system and CM-PRISM

Please share your thoughts

Are you interested in participating?

Contact
ann_schwartz@urmc.rochester.edu

Exclude Lists

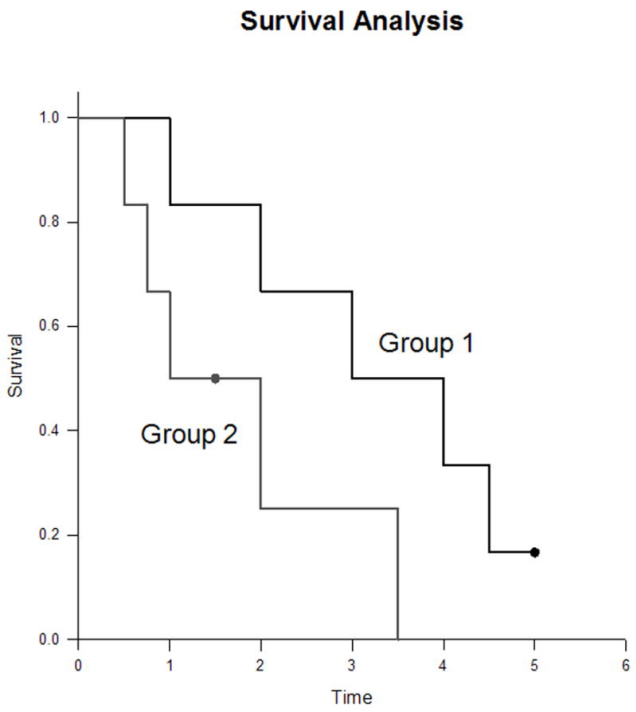
- Several mismatches can occur:
  - A wrong name can be matched with a grant (e.g., Jane Smith)
  - A wrong name can be matched with a publications (e.g., Williams JC with John C. Williams)
  - A wrong ORCID identifier can be pulled in (e.g., 1010-1010-1010-1010)
- These mismatches often occur not just once but several times
- E.g., at Vanderbilt, mismatches in father/son combo Hal Moses and Harold Moses, Jr.

Exclude Lists

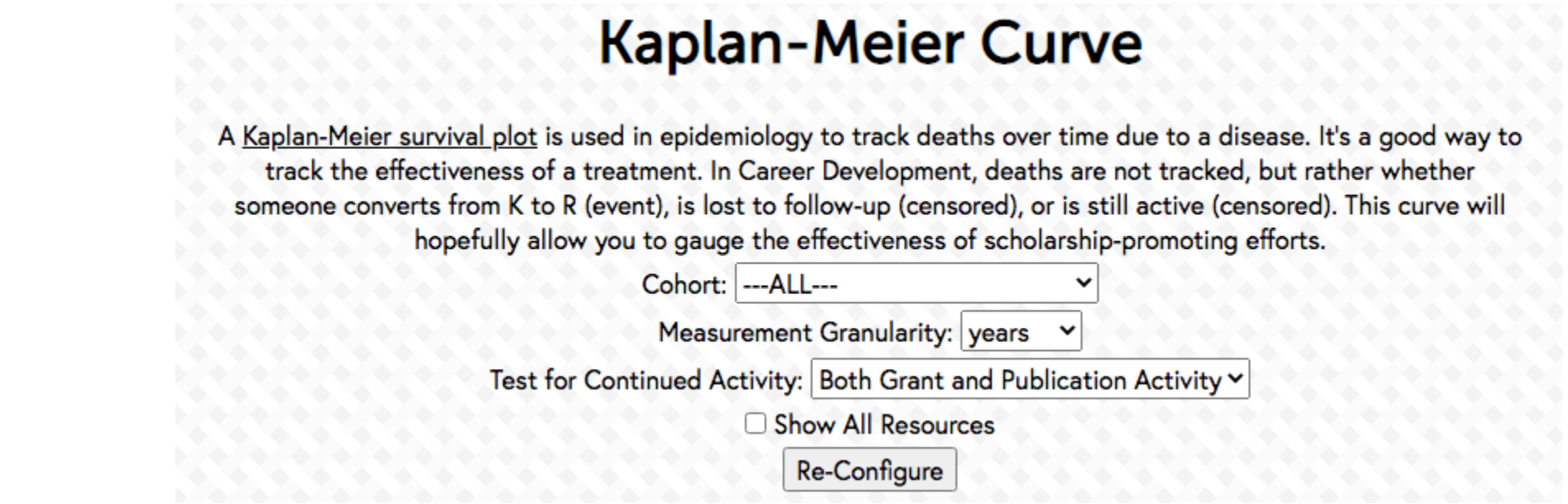
- Added new REDCap form with names to exclude **for that record**
- Added text boxes on Wranglers to supply information
- Can add more than one name/id by separating by commas

Kaplan-Meier Curves

- Good introduction to topic: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3932959/
- Graph of Survival Rate from beginning of study
- At each time, three outcomes:
  - Event (e.g., death, K→R conversion)
  - Censor (e.g., drop out of study, lose to follow up)
  - Continues on/lives
- Lose to follow up = no publishing/grant activity
- On graph, dot = censored



Kaplan-Meier Configuration



Kaplan-Meier Plot

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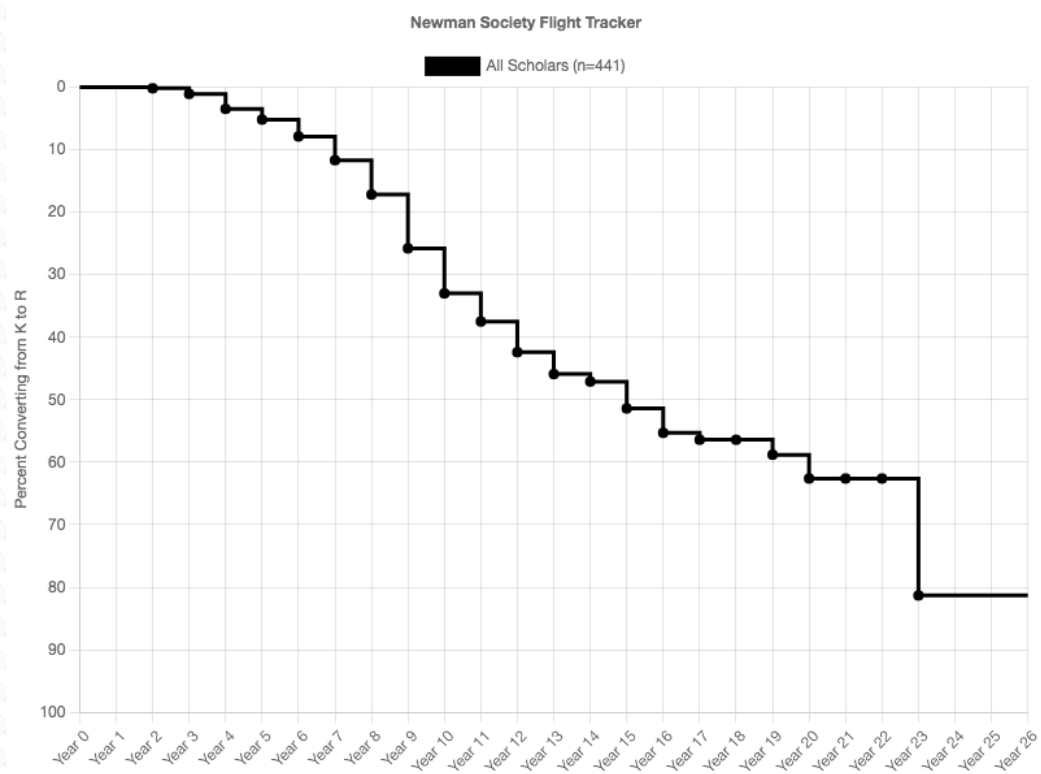
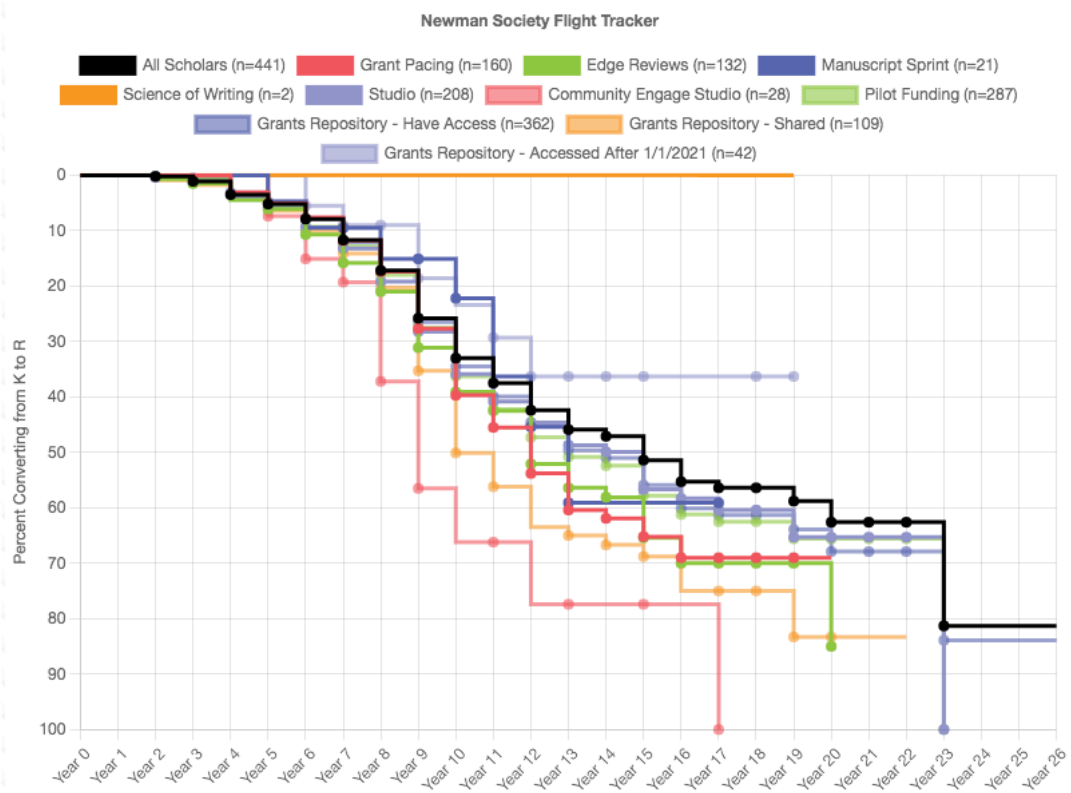


Kaplan-Meier Plot



Kaplan-Meier Interpretation

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- Different from previous meeting – reversed axes
- Original convention: Cancer survival curves – avoiding death as event
- Goal is to move K→R rate lower on the y-axis (reversed axis)
  - Conversion rate at last year represents overall conversion rate (percent converted minus those lost to follow up)
  - Some lines in our graphs can have everyone convert or drop out

Outlier Detection

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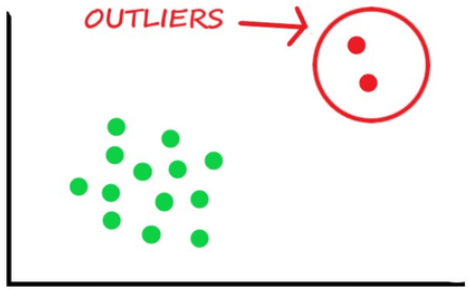
- Kaplan-Meier curves can grow skewed due to outliers
- A **group of outliers** is defined as:
  - 1 grant or 1-3 publications
  - before 1990 (sensitive screen)
  - with a > 10-year gap before the next grant/publication (specific screen)
- E.g., found publications associated with a scholar dating back to 1825



Outliers Example

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Found 1 Records with Outliers

A **group of outliers** is defined as 1 grant or 1-3 publications before 1990 with a > 10-year gap before the next grant/publication.

Record 14: Robert Barry

Grants

1988-01-28 (See Grant)
1F32EY006059-01 from nih_reporter Avoid Grant

Kaplan-Meier Features

Expected to be out this Friday in v3.3.0

Newbie Call

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Just getting started with Flight Tracker?

There's a definite learning curve.
Move up more quickly by joining June's Newbie call.

June 9 at 1pm Central Time

Leave your email in the chat to receive an invitation.

Office Hours with Rebecca & Scott

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