Flight Tracker Consortium Meeting

September 1, 2021

Meeting Agenda

What's New?

Publication Impact Scores

NIH Table Sign-Ups

CTSA Common Metrics
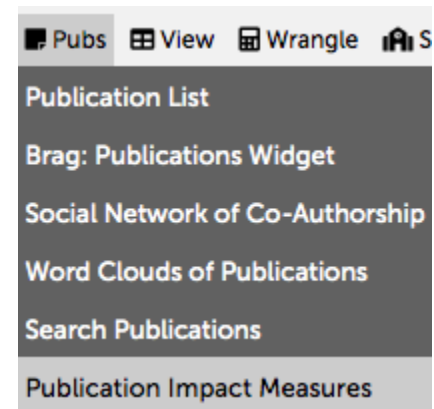
Conversion Rate Plot

What's Next?

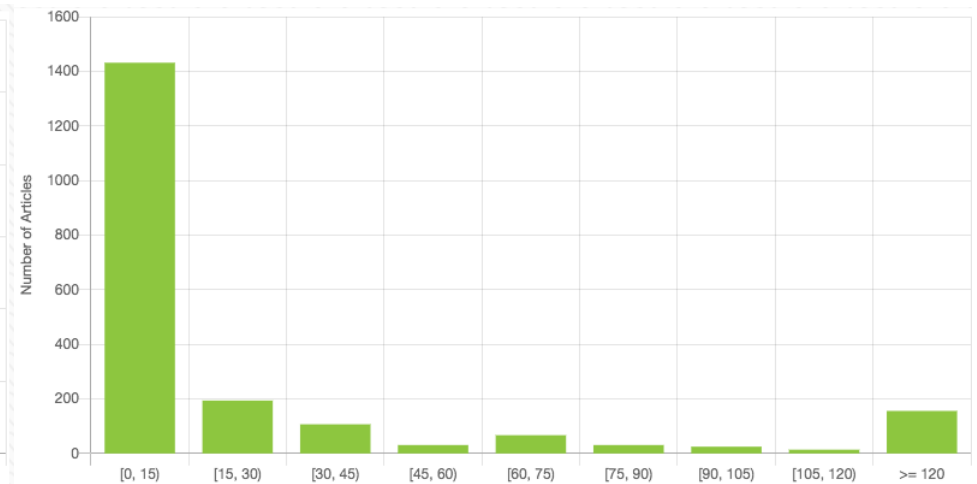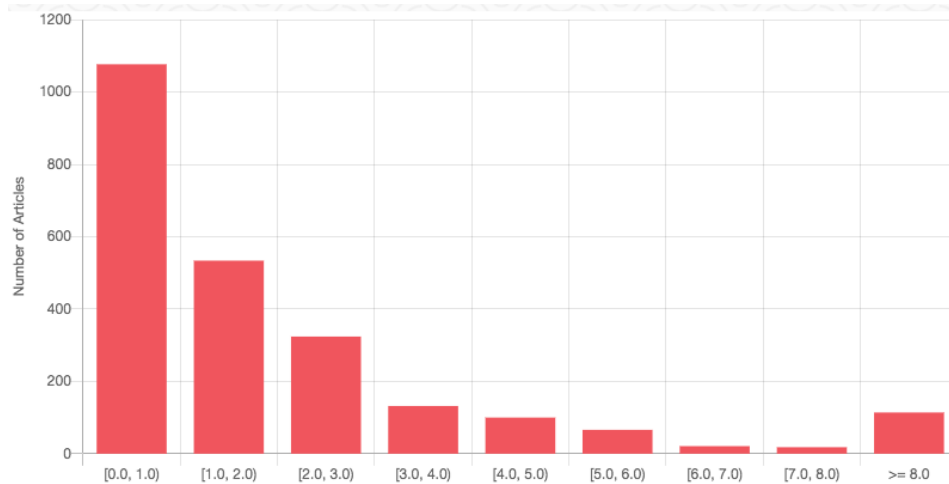**Office Hours with Rebecca & Scott**

Publication Impact Scores

- How do you identify the high-impact papers your scholars are publishing?

- Defining "high-impact…"
  - High Relative Citation Ratio (RCR) – NIH bibliometric
  - High Altmetric Score – social media and non-traditional media

Publication Impact Scores

FLIGHT TRACKER for scholars

Distribution charts of RCR and Altmetric Scores

- Expected "exponential decay" trend
- Expected mirroring of each other

Publication Impact Scores

- List of highest papers with their scores
- Show RCR & Altmetric Score
- Configurable by minimum RCR

Kolumam G, Chen MZ, Tong R, Zavala-Solorio J, Kates L, van Bruggen N, Ross J, Wyatt SK, Gandham VD, Carano RA, Dunshee DR, Wu AL, Haley B, Anderson K, Warming S, Rairdan XY, Lewin-Koh N, Zhang Y, Gutierrez J, Baruch A, Gelzleichter TR, Stevens D, Rajan S, Bainbridge TW, Vernes JM, Meng YG, Ziai J, Soriano RH, Brauer MJ, Chen Y, Stawicki S, Kim HS, Comps-Agrar L, Luis E, Spiess C, Wu Y, Ernst JA, McGuinness OP, Peterson AS, Sonoda J. Sustained Brown Fat Stimulation and Insulin Sensitization by a Humanized Bispecific Antibody Agonist for Fibroblast Growth Factor Receptor 1/βKlotho Complex. EBioMedicine. 2015 Jul; 2(7):730-43. PubMed PMID: 26288846 PMC4534681. RCR: 2.61. Altmetric Score: 5.35.

Duncan MS, Vasan RS, Xanthakis V. Trajectories of Blood Lipid Concentrations Over the Adult Life Course and Risk of Cardiovascular Disease and All-Cause Mortality: Observations From the Framingham Study Over 35 Years. J Am Heart Assoc. 2019 Jun 04; 8(11):e011433. PubMed PMID: 31137992 PMC6585376. RCR: 2.6. Altmetric Score: 1.75.

Han JH, Brummel NE, Chandrasekhar R, Wilson JE, Liu X, Vasilevskis EE, Girard TD, Carlo ME, Dittus RS, Schnelle JF, Ely EW. Exploring Delirium's Heterogeneity: Association Between Arousal Subtypes at Initial Presentation and 6-Month Mortality in Older Emergency Department Patients. Am J Geriatr Psychiatry. 2017 Mar; 25(3):233-242. PubMed PMID: 27623552 PMC5321606. RCR: 2.6. Altmetric Score: 5.5.

Shao L, Chen Z, Peng D, Soutto M, Zhu S, Bates A, Zhang S, El-Rifai W. Methylation of the HOXA10 Promoter Directs miR-196b-5p-Dependent Cell Proliferation and Invasion of Gastric Cancer Cells. Mol. Cancer Res. 2018 April; 16(4):696-706. PubMed PMID: 29453320 PMC5882501. RCR: 2.6.

Xu Y, Wang W, Zhao J, Wang J, Zhao T. Knowledge, attitude, and practice of healthcare professionals toward clinically applying graduated compression stockings: results of a Chinese web-based survey. J Thromb Thrombolysis. 2019 Jan; 47(1):102-108. PubMed PMID: 30293224 PMC6336747. RCR: 2.6. Altmetric Score: 0.25.

McNaughton C, Wallston KA, Rothman RL, Marcovitz DE, Storrow AB. Short, subjective measures of numeracy and general health literacy in an adult emergency department. Acad Emerg Med. 2011 Nov; 18(11):1148-55. PubMed PMID: 22092896 PMC3886121. RCR: 2.59. Altmetric Score: 10.75.

Zhang C, Cheng F, Li W, Liu G, Lee PW, Tang Y. In silico Prediction of Drug Induced Liver Toxicity Using Substructure Pattern Recognition Method. Mol Inform. 2016 April; 35(3-4):136-44. PubMed PMID: 27491923 RCR: 2.58.

Su P, Zhang J, Wang S, Aschner M, Cao Z, Zhao F, Wang D, Chen J, Luo W. Genistein alleviates lead-induced neurotoxicity in vitro and in vivo: Involvement of multiple signaling pathways. Neurotoxicology. 2016 Mar;

NIH Table Sign-Up

- **Existing Strength:** Flight Tracker can export information to NIH Training Tables. Goal is to get 80-90% of the way and reduce tedious manual labor.

- **Problem:** Signing up scholars for NIH Tables is itself fairly tedious and requires filling out multiple REDCap forms one-by-one.

NIH Table Sign-Up

NIH Table Sign-Up

- Automatically creates a Custom Grant to sign up your scholar for the correct NIH Table group.

- Also registers for CTSA Common Metrics if applicable.

- Sign up by clicking on the cell and then clicking Save Changes.

CTSA Common Metrics

- The CTSA coordinating center (CLIC, based at the University of Rochester) is moving to a REDCap survey to submit Common Metrics annual updates for the CTSAs.

- Aforementioned NIH Table Sign-Ups will help adoption.

- CSV spreadsheet will transfer information from your Flight Tracker to the CLIC's REDCap survey.

- **Will depend on whether you have signed up your project for a T-class grant or a K-class grant.**

CTSA Common Metrics

Numbers will depend on who is signed up.

Numbers are zeroed out here for example.

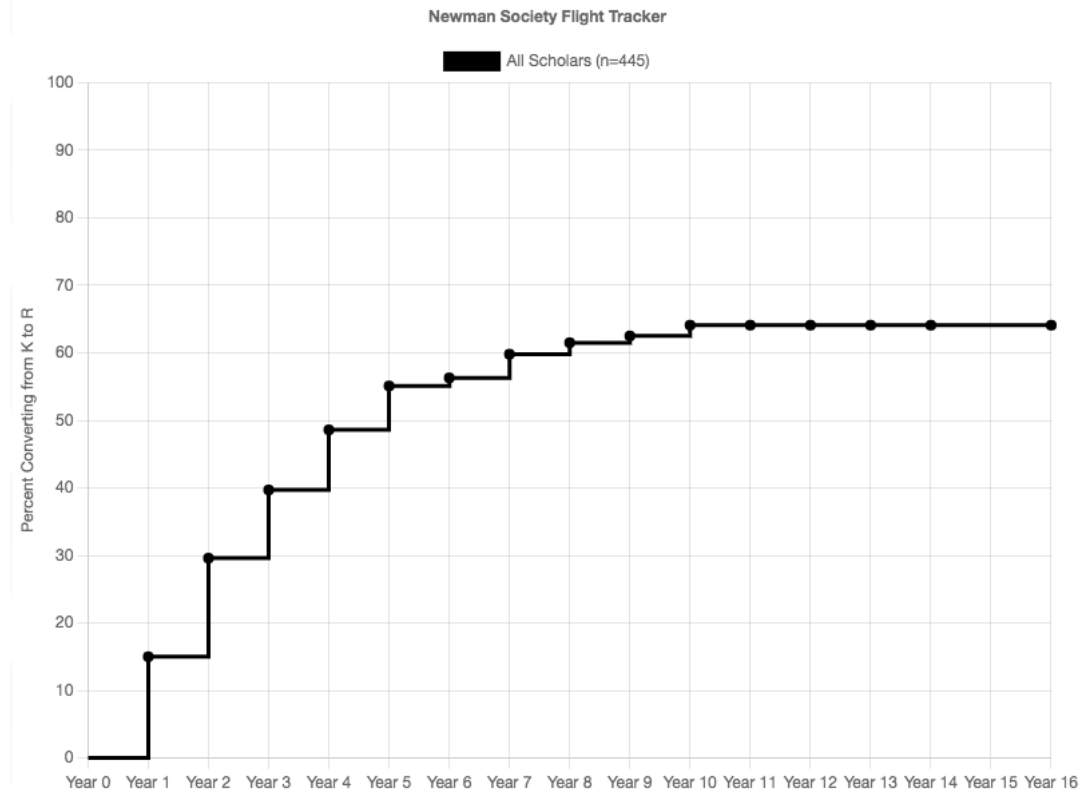CSV available for download to upload to CLIC's REDCap survey.

Conversion Rate Plot

- Kaplan-Meier plots are traditionally known as "Survival Curves."
  - Because our measured outcome is K$\rightarrow$R conversion (career success, not death), we call them "Success Curves."
- They are sometimes accompanied by a "Hazard Plot," which is the first derivative of events per unit time.
  - In other words, it is the **rate of conversion success**.
  - For post-doctoral scholars, it tells the rate at which scholars convert/succeed.
  - Probably helpful only for larger groups of scholars (because a small *n* results in not enough rates to be meaningfully graphed).
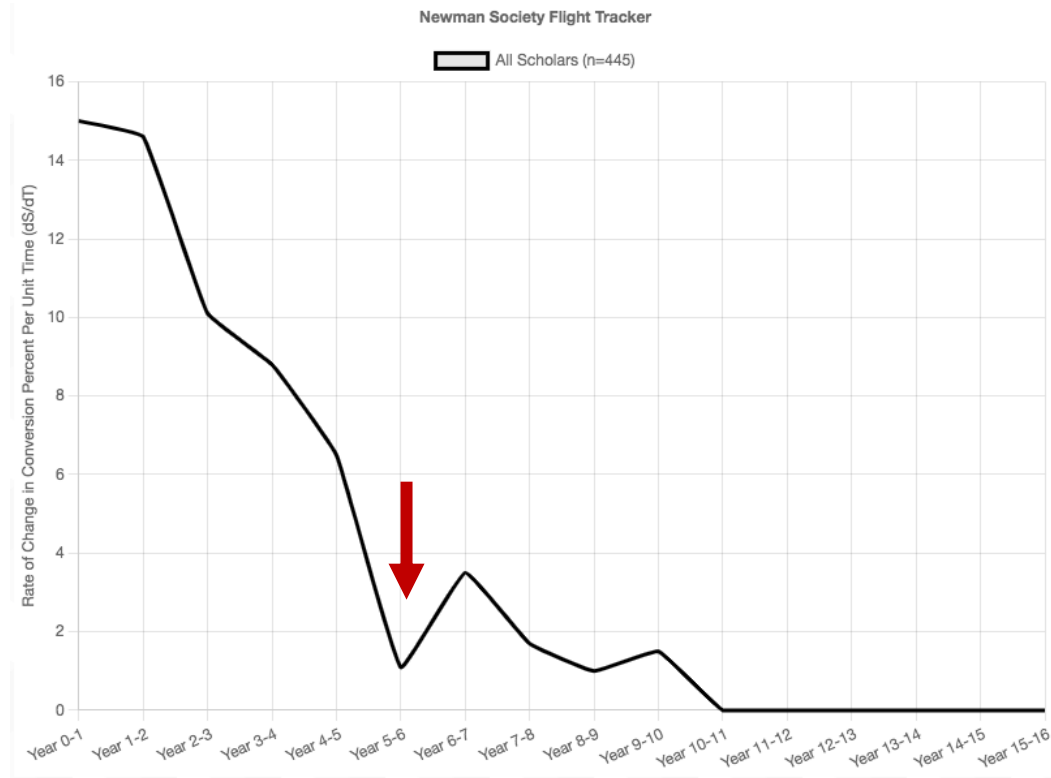
Conversion Success Plot

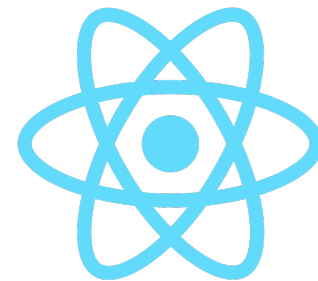Kaplan-Meier Conversion Success Plot

Conversion Rate Plot

"Hazard" Plot (rate of conversion successes)

What's Next?

- Still working on speeding up collection of NIH Tables 1-4

- Started a re-design that focused on potential speed-ups

- Current attempt: using React (an interface technology from Facebook) to build a user interface that tries to connect Flight Tracker and the tables

- Will re-evaluate progress soon

Newbie Call

Just getting started with Flight Tracker?

There's a definite learning curve.
Move up more quickly by joining **September's "newbie" call**.

Friday, September 17 at 9.30am Central Time
Leave your email in the chat to receive an invitation.

Office Hours with Rebecca & Scott