AltMetrics

Carl G. Mattacola, PhD, ATC
College of Health Sciences,
University of Kentucky, Lexington KY

Perception

• Naïve Faculty Member & Scholar
• Administrator
• Editor

Altmetrics

• Data and knowledge bases refer to it,
• Article views,
• Downloads, or
• Mentions in social media and news media. [5][6]

Transition for old dogs

• Blogs
• Tweets
• Social Media
• Linked-In

• Most common metric for evaluating research impact has been the number of times a research article is cited by other articles.

• The number of citations received by the journal that published the article, summarized using a formula called the journal impact factor.

• Most common metric for evaluating research impact has been the number of times a research article is cited by other articles.

• The number of citations received by the journal that published the article, summarized using a formula called the journal impact factor.  

• Journal Impact Factor VS. alternative metrics of impact.

• \( A = \) the number of times that articles published in a two year span were cited by articles in indexed journals .

• \( B = \) the total number of "citable items" in a two year plan. ("Citable items" are usually articles, reviews, proceedings, or notes; not editorials or letters to the editor.)

• Impact factor = \( A/B \).
**PROS**

- Reviewed by Peers
- Specialized area of study
- Studies that are referenced more are considered more impactful
  - Sound familiar

**CONS**

- The more prestigious most read journals are higher ranked
- Can Be manipulated (review papers)
  - Sound familiar
- More financially viable have higher impacts

**Of importance for Administrators is the**

Determination of a Faculty Members Expertise and Impact

**Temporal Issues**

- How to gauge long term success via altmetrics
  - Longevity of conversations……length of threads

**Typical Considerations of the Current Publication Process**

- Distribution of the Research that you publish versus where did you publish
- Peer Review provides a basis for examination by experts in your field
Electronic CV

• What will it look like?
• Will your links be automatically updated?
• Will it be more like a web page with current publications, tweets, social links, and links to previous and current conversations
• Links to all the companies that assess metrics
  – This has the potential to be very confusing
• Bibliography will be live

How are all these scores calculate?

• https://www.researchgate.net/publicprofile.RGScoreFAQ.html

What I can’t grasp is how and with how many metrics?

• Impact Story: http://impactstory.org/
• PLOS Article-Level Metrics Application: http://api.plos.org/alm/using-the-alm-api/
• Altmetric.com: http://www.altmetric.com/
• Plum Analytics: http://plumanalytics.com/

ResearchGate

• Research Gate https://www.researchgate.net/aboutus.AboutUs.html

Journals

• How do they get involved?
• Will the journal with the most money be most successful in disseminating data?
• Will journals need to be the repositories for data?
• What is the role of journal editor to determine PR and impact?

Is the researcher with the most altmetrics the most impactful?

• Encouraging researchers to tell their own impact stories on their CVs, using broad sources of data, will help spur a much-needed conversation about how research evaluation is done and should be done in the future.

The Power of Altmetrics on a CV, Heather Piwowar and Jason Priem, Bulletin, April/May 2013
• Supplement existing usage statistics to provide a broader range and interpretation of research-output impact for the benefit of authors

• How do you train the next generation of Faculty
• Trained as scholars and teachers
• Trained to disseminate research and use social media??
• Is or will this be a product of a good department/college??
• Who pays for such a service? Altmetric
• www.altmetric.com

• I think the argument is not the use of metrics, like journal impact factors nor their importance of establishing (some form of) assessment of a broad range of scientists and scholars. Similar to “a Z score” how can you compare different people, metrics, and scales, respectively.

• I think what is most important is how do you capture and paint a comprehensive picture of the dissemination of information using all the technological tools that are available to us.

Thank You

Carl G. Mattacola, PhD, ATC, FNATA
Professor – Director Division of Athletic Training,
Rehabilitation Sciences Doctoral Program
University of Kentucky
College of Health Sciences
Wethington Building, Room 210E
900 South Limestone
Lexington, KY 40536-0200
-------------------------------------------------
Office: (859) 218-0860
E-Mail: carlmat@uky.edu
http://www.mc.uky.edu/athletic_training/