

Publications in a digital world

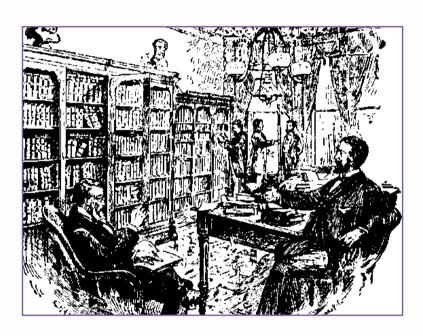
Envision Technology Solutions

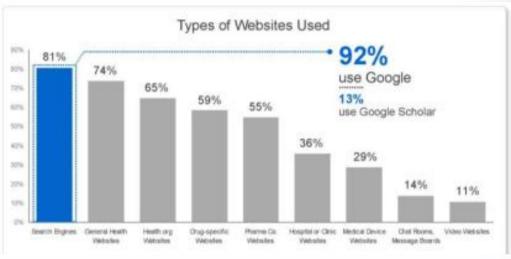
MedComms Networking Event

ENVISION PHARMA



Routes of access to medical information have changed





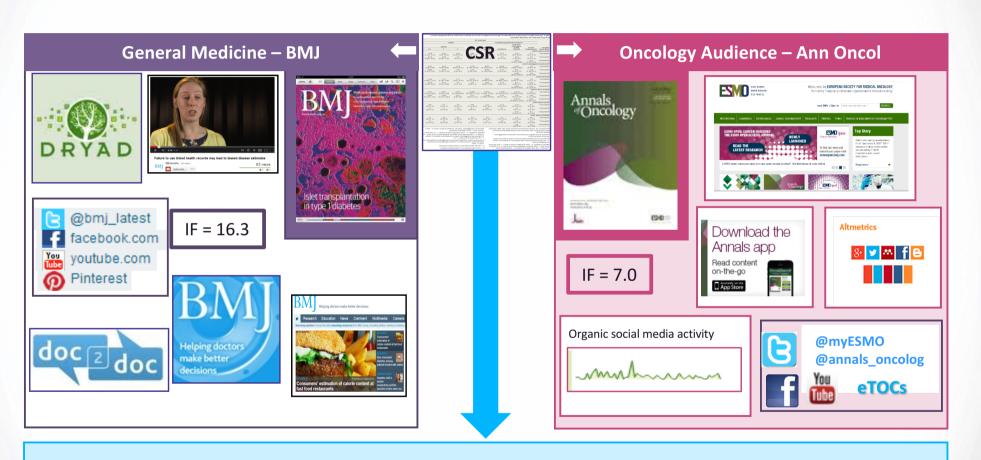
Passive - Information finds you

- RSS, PubMed alerts, Google alerts
- eTOCs, Citeulike, Mendeley

Peer-to-peer referral

- Mendeley
- Most read
- Blogs, Twitter, Facebook

Modes of consumption are also shifting to multimedia channels – should be a consideration in Journal selection







Press releases





Congresses are increasingly virtual in their reach

The #ASCO16 Influencers

Top 10 by Mentions Top 10 by Tweets Top 10 by Impressions @asco 5,656 @mtmdphd 1,435 @theeconomist 86,499,885 @bmsnews 3,639 @sorena997 1,318 @mtmdphd 16,901,605 @bmsnews 13,374,149 @vp 2,970 @onced 613 @abbvie 2,737 @ci4cc 611 @asco 12,354,024 @drcbsteer 593 @mtmdphd 1,442 @roche 10,472,284 @cultperfectmoms 458 @forbes 9,601,135 @ascopost 1,191 @sloan_kettering 1,159 @josico99 457 @dnabarcode 7,172,267 @genentech 916 @nycdoc29 444 @astrazeneca 6,482,986 @merck 908 @brcaresponder 319 @novartis 6,300,990 @merck 5,843,006 Medicape @medscape 842 @lcsmchat 310 Tweet Activity on #ASCO16 Monitor "chatter" for mentions of drug and/or key competitors

The Numbers

426,842,917 Impressions

82,492 Tweets

19,137 Participants

f Like

119 Avg Tweets/Hour

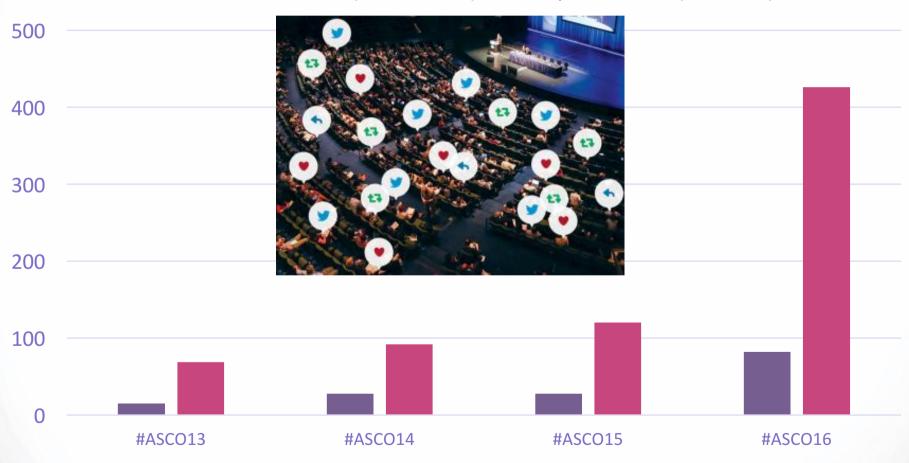
Online reach far outweighs physical attendance

- Identify and monitor key influencers in the field
- Identify potential KOLs



A growing trend

Number of Tweets (thousands) and impressions* (millions)



^{*}The delivery of a post or Tweet to an account



But not without pitfalls...

Medscape Coverage from the American Diabetes Association (ADA) 77th Scientific Sessions

A Perfect Twitter Storm: Why Is the ADA So Anti-Social Media?

Liz Neporent June 11, 2017

SAN DIEGO — Meeting attendees are pushing back against the enforcement of severe restrictions on social media posts that discuss the American Diabetes Association (ADA) 2017 Scientific Sessions taking place here this week.

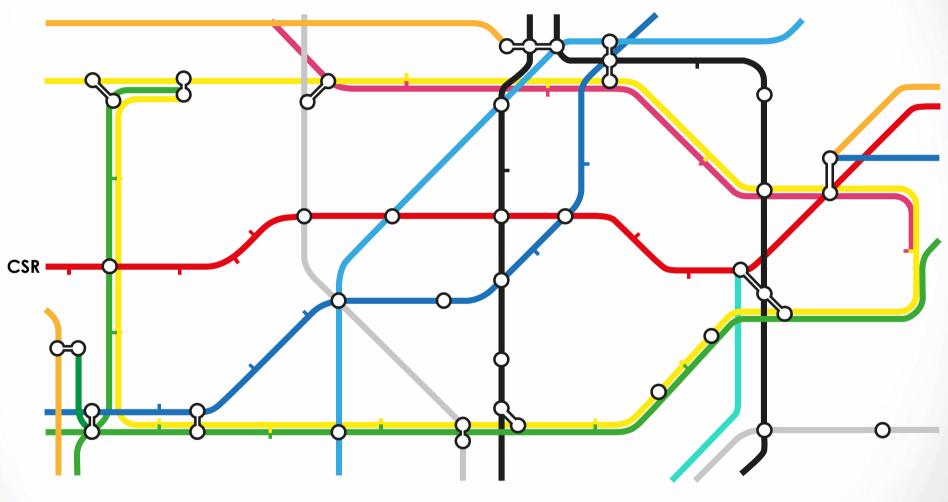
Since the meeting began on Friday, June 9, many of the attendees' Twitter posts, including photographs from sessions, have been met by a polite yet firm appeal from the ADA asking them to delete their tweet.

"Thanks for joining us at #2017ADA! Photography isn't allowed during presentations — we'd appreciate it if you would delete this tweet," reads a typical Twitter response from the ADA's official handle, @AmDiabetesAssn.

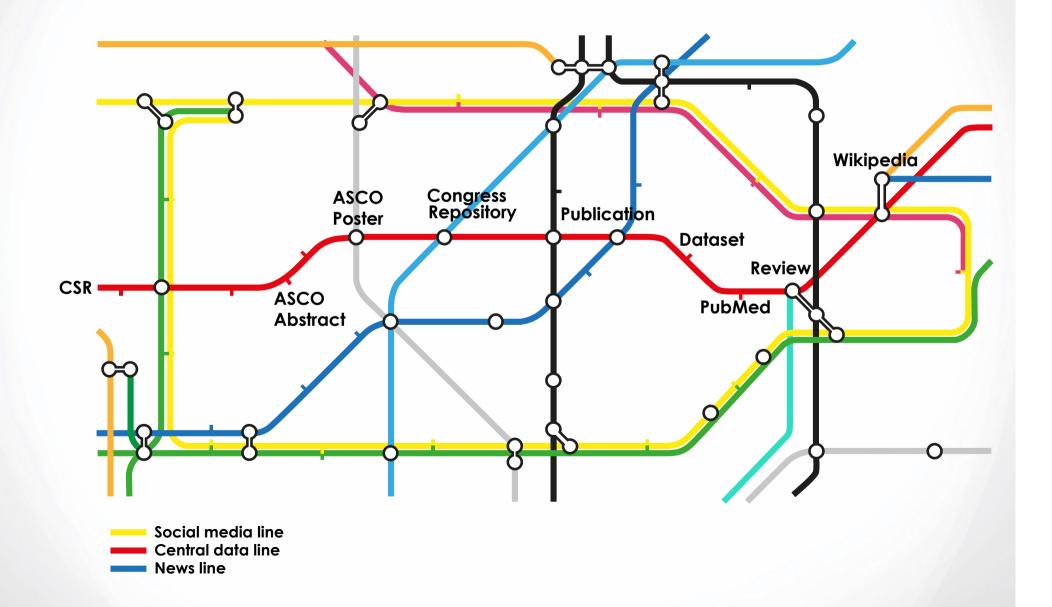
Twitter users immediately began expressing anger and frustration over the seemingly draconian attempts to limit social media conversations at the association's scientific sessions. Many say they see it as an unethical attempt to maintain a monopoly on data and educational effort.

"Those in power are counting on you to NOT speak up & to comply. Stop deleting, Start tweeting, Don't be thanked for ur compliance," C Michael Gibson, MD, an interventional cardiologist at Beth Israel Deaconess Medical Center, Boston, Massachusetts, tweeted several times to his more than 300,000 Twitter followers. One prompted a long string of replies in agreement, as well as 150 likes and 90 retweets. Similar posts are also receiving brisk engagement.

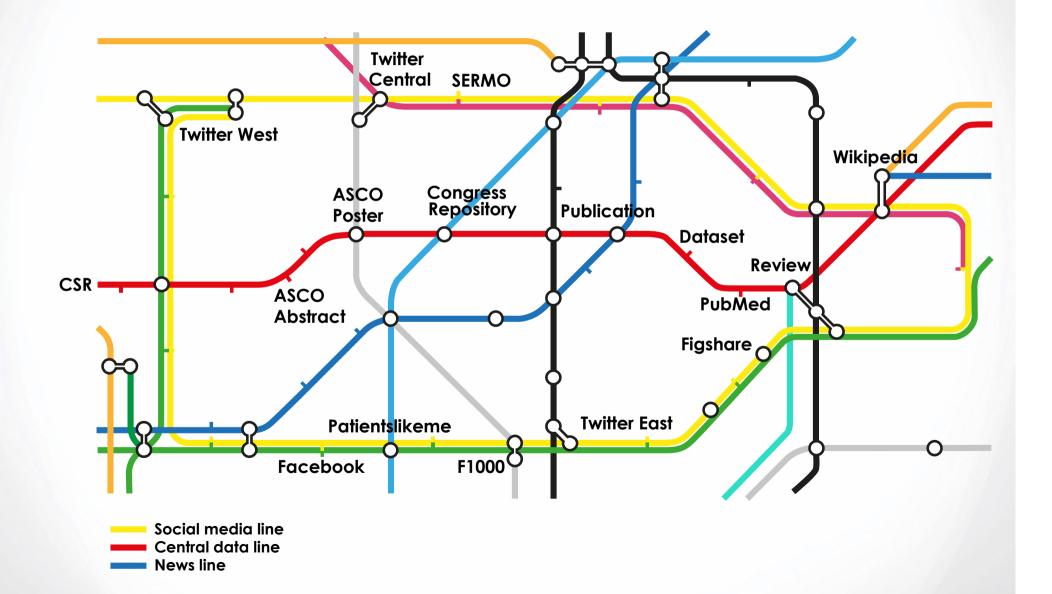


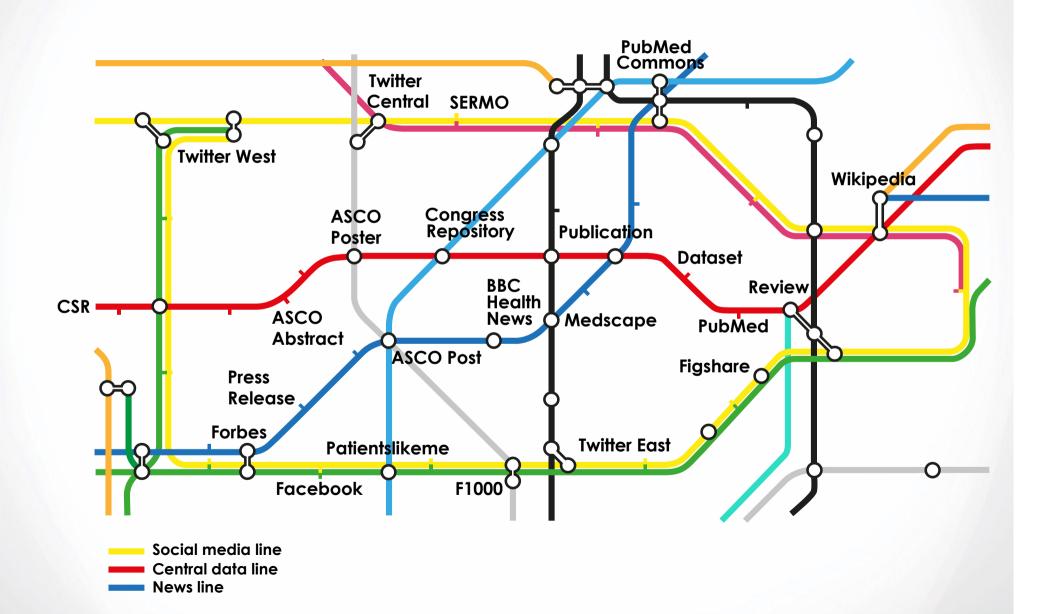


Social media line
Central data line
News line



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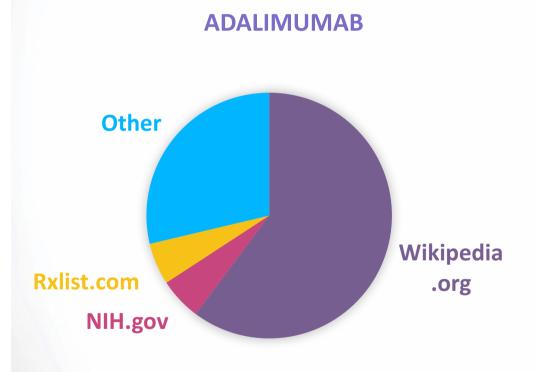


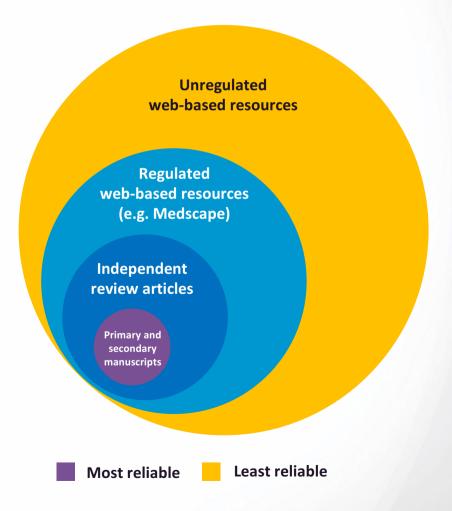




Most accessed resources are often non-journal in nature

Relative reach and use of peer-reviewed information resources, regulated- and non-regulated web-based information resources

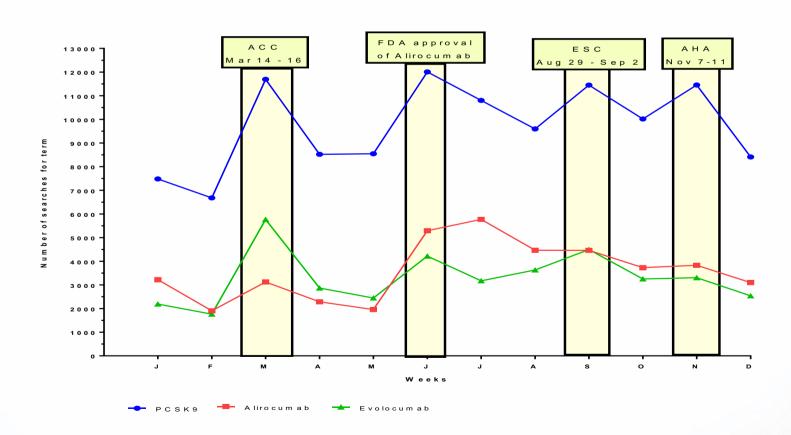






Wikipedia views give a good "ball-park" metric of levels of interest in a drug or therapeutic area

And Congress presentations impact viewership - PCSK9-related Wikipedia entries





Assessing Journal Options

Consider the entire selection of offerings...

| Journal title | Impact factor | Circulation | Submission to acceptance | Acceptance to publication | Extenders | Social media |
|------------------------------|---------------|-------------|--------------------------|---------------------------|------------|--------------|
| Journal of Clinical Oncology | 20.98 | 26K | 4 weeks | 11-12 weeks | | 9 6 |
| Annals of Oncology | 9.27 | 9.3K | 3-6 weeks | 12-16 weeks | | 9 6 |
| ESMO Open | - | - | 1 week | 2-3 weeks | 8 🖾 🖵 | y 6 |
| PLoS | 3.06 | - | 4 weeks | 2-3 weeks | | 9 6 0 |
| The Lancet Oncology | 26.51 | 10.8K | 1 week | 2-4 weeks | 6 9 | 9 6 |













access









Pinterest Twitter

Facebook

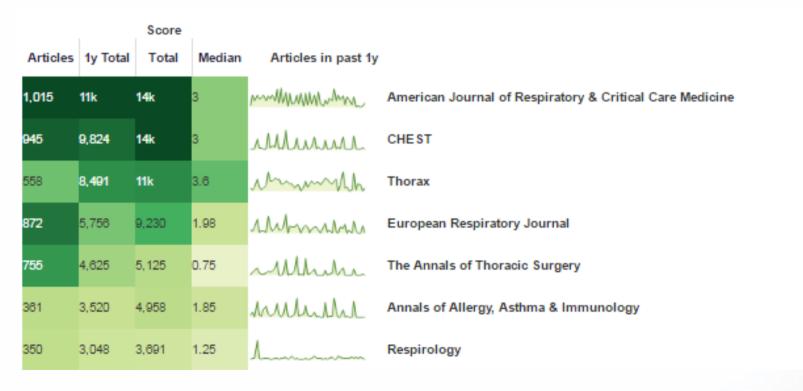
eTOC:

Podcast Comments



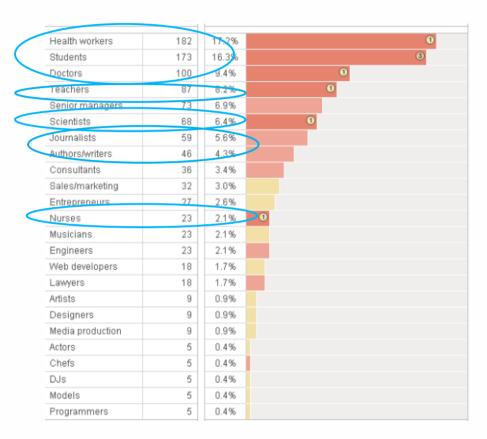
Journal selection by level of social media activity....

- Journals matching the Medline subject "Pulmonary Medicine", ranked by history of "social buzz" in the preceding 12 months
- Not a replacement for IF and other more traditional rankings
- Increasingly important as social media becomes more prevalently associated with journals





Demographics of followers may also be important



- Over half of the followers are healthcare workers, doctors, nurses or scientists
- Another 18% are communicators – Teachers, authors/writers and journalists
 - Journalist following also raises the potential of mainstream news coverage



Request from European Urology – an Elsevier journal

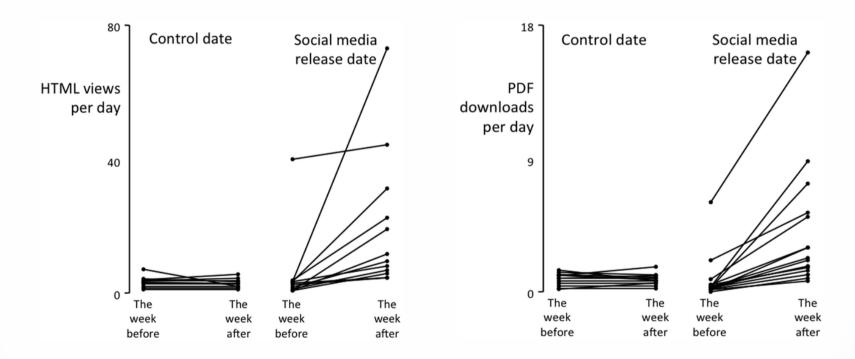
"Please include a 120 character summary of your manuscript which will be used on Twitter if eventually accepted for publication. The target for this Tweet should be aimed at clinicians and scientists. Please make it brief, informative and appealing. The Editors reserve the right to alter these Tweets as needed."

- Potential violations of the ABPI code on DTC advertising or off-label promotion!
- Need a procedure in pace to deal with such requests



The effect of social medial release on page views and PDF downloads of the original article

PLOS ONE articles (n=16) were blogged and released via Facebook,
 Twitter, LinkedIn





Assessing Impact

Journal article

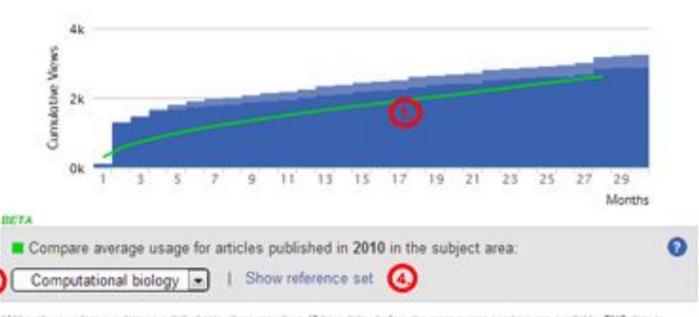


Traditional metrics are outdated in the digital age

- IF Misused as a measure of the impact of an individual article
 - A small number of manuscripts are cited much more so than the rest¹
 - E.g. 90% of *Nature's* 2004 impact was based on <25% of manuscripts
- Shift in emphasis from JOURNAL impact to ARTICLE impact
- Citations are a measure of ARTICLE impact, but:
 - Are slow to emerge
 - May not be a good thing; context is important
 - Some target audiences may not generate citations (GPs, nurses)
- Actual measures of access page visits, abstracts views, PDF downloads
- Indicators of interest Google search volume
- Social media and search patterns provide alternative measures of impact
 - Article-Level Metrics (ALMs)
 - Altmetrics

Real-time numbers of visits and downloads





"Although we update our data on a daily basis, there may be a 45-hour delay before the most recent numbers are available. PMC data is posted on a monthly basis and will be made available once received.



Altmetrics provide some insights into the impact of an article



- Policy documents
- New:
- Blogs
- Twitter
- Post-publication peer-reviews
- Facebook
- Sina Weibo
- Wikipedia

- Google+
- LinkedIn
- Reddit
- Faculty1000
- Q&A (stack overflow)
- Youtube
- Pinterest

Other systems:





https://www.altmetric.com/about-altmetrics/what-are-altmetrics/https://www.altmetric.com/about-our-data/the-donut-and-score/



Take home summary

As consumption of publications and scientific communications becomes ever more digital in nature, in parallel with consumption of news and other information, the distribution, awareness building and impact assessment of those publications needs to keep pace and adapt accordingly



THANK YOU

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GROUP