

How to write impact statements with Altmetric data

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Today's agenda

Walking through examples and ideas of how to:

- write about your research impact in a narrative format;
- summarize attention using bullet points;
- tell a compelling story using simple visuals.



A few notes...

- I'm assuming participants have some knowledge about altmetrics
- No advanced skills are required to recreate these examples
- These examples are from one person's perspective
- We only have 30 min!



Let's chat! engagement@altmetric.com

Request a demo: support@altmetric.com

Defining impact

Defining Impact

An 'effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia.'(1)





Defining Impact

An 'effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia.'(1)





Most stakeholders that research is meant to reach **do not publish or do research**. They do **talk** about research.



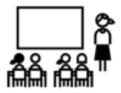
General Public



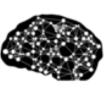
Practitioners



Government & Policy Makers



Advocacy/ Non-profits



Investigators



Tech Transfer





Interested parties



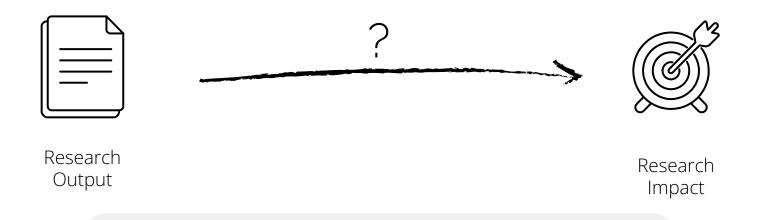
GOING BEYOND

"Dissemination is not impact: even if you have impressive numbers of reads, downloads, views or listens, how do you know if anyone learned anything from it, benefited, or did anything different as a result? **Keep asking, 'what happened next?**"
(1)



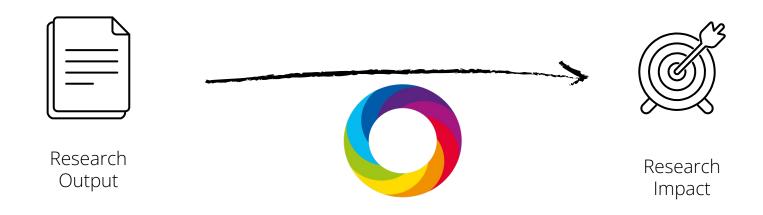
Altmetric \(\neq \) Impact





Challenge: how to bridge the gap between the research and its impact?





Altmetric can be used to gather evidence to underpin the impact and add to the narrative



Discover **pathways to impact** using Altmetric data, including:



Policy mentions



Patent mentions

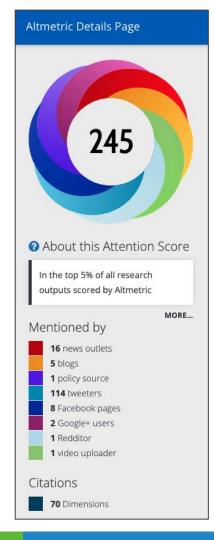


Mass media mentions



Social media mentions





Oral administration of morphine versus ibuprofen to manage postfracture pain in children: a randomized trial

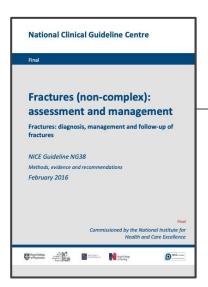
Canadian Medical Association Journal, October 2014 10.1503/cmaj.140907





Policy mentions

Oral administration of morphine versus ibuprofen to manage postfracture pain in children: a randomized trial



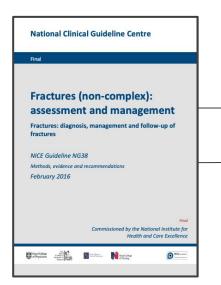
Review question: What is the most effective initial acute pharmacological management to alleviate pain in patients with a suspected long bone fracture (tibia and fibula, humerus, radius and ulna, or unspecified) in acute care settings?





Policy mentions

Oral administration of morphine versus ibuprofen to manage postfracture pain in children: a randomized trial



Review question: What is the most effective initial acute pharmacological management to alleviate pain in patients with a suspected long bone fracture (tibia and fibula, humerus, radius and ulna, or unspecified) in acute care settings?

Oral NSAIDs versus oral morphine (children)

Moderate quality evidence from a single RCT of 134 patients demonstrated no clinical difference between the interventions for change in pain score, with no serious imprecision.

Moderate evidence from a single RCT of 134 patients demonstrated a clinical benefit with oral NSAIDs between the interventions for incidence nausea, with serious imprecision.

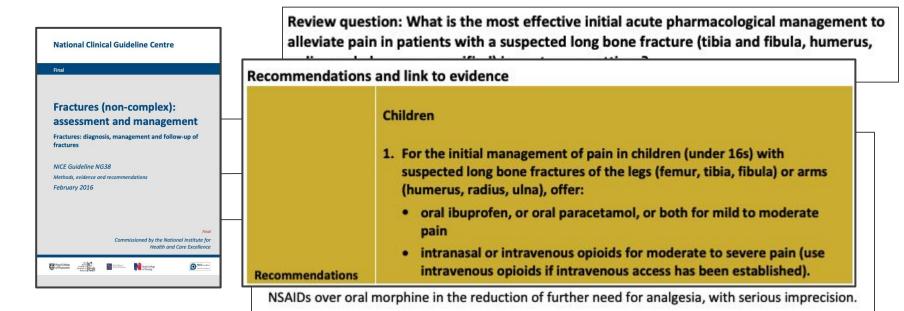
Moderate quality evidence from a single RCT of 134 patients demonstrated a clinical harm of oral NSAIDs over oral morphine in the reduction of further need for analgesia, with serious imprecision.





Policy mentions

Oral administration of morphine versus ibuprofen to manage postfracture pain in children: a randomized trial







Mass media mentions

Oral administration of morphine versus ibuprofen to manage postfracture pain in children: a randomized trial

LIFE

PARENTIN

For Kids With Broken Bones, Ibuprofen Is Safer And Just As Effective As Morphine

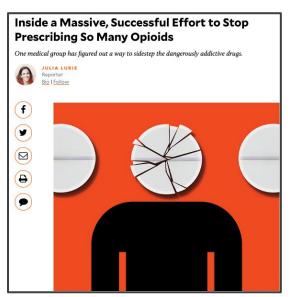


(REUTERS

BY KATHRYN DOYLE Tue Oct 28, 2014 1:37pm EDT

(Reuters Health) - The narcotic drug morphine is not the best choice for pain relief in kids with broken bones, a new study suggests.

Mother Jones



Blog & Podcast:





Social media mentions

Oral administration of morphine versus ibuprofen to manage postfracture pain in children: a randomized trial







- Use plain language; avoid jargon
- Add context when you can, e.g. instead of listing the number of news outlets, give a bit more detail!
- Don't use the Altmetric Attention Score unless you provide more context
- What kind of impact are you trying to describe?
 - Global impact consider highlighting number of countries
 - Academic impact consider highlighting post publication peer reviews
 - Public impact looks to news, social media, wikipedia, etc.





Use altmetrics to describe the reach and impact of your work

"This work informed non-complex fracture guidelines from the National Institute of Health and Care Excellence recommending that pediatric patients receive ibuprofen to manage mild to moderate pain...





Use altmetrics to describe the reach and impact of your work

"This work informed non-complex fracture guidelines from the National Institute of Health and Care Excellence recommending that pediatric patients receive ibuprofen to manage mild to moderate pain. More broadly, this research has influenced conversations in mass media surrounding opioid addiction; it has also been described on social media as "practice changing" research by clinicians and government officials, evidencing the dissemination of this work to audiences beyond academia."





Use altmetrics to describe the reach and impact of your work

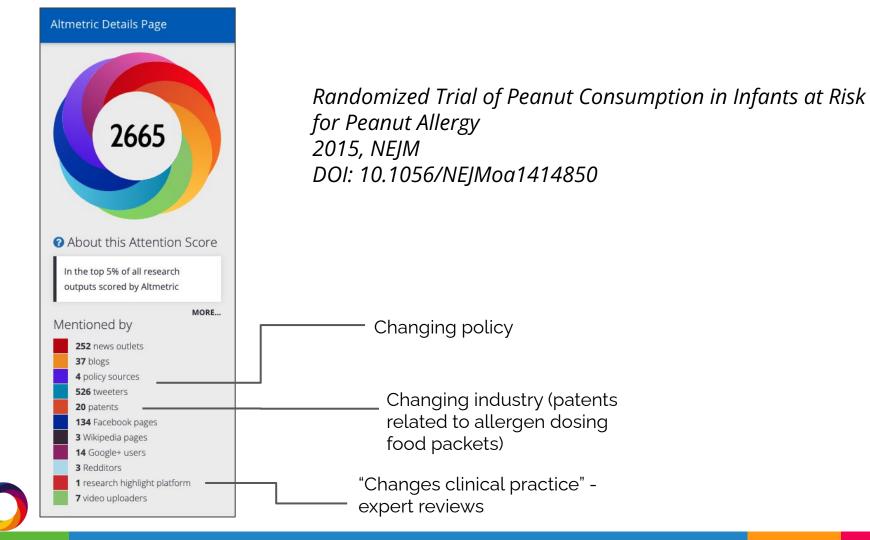
Short summary with numbers:

In addition to being cited 70 times, this paper has been mentioned in 16 news outlets including NPR and Reuters. It was also cited in the non-complex fracture guideline from the National Institute of Health and Care Excellence.





Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy 2015, NEJM DOI: 10.1056/NEJMoa1414850





Use altmetrics to describe the reach and impact of your work

"This work led to sweeping reversals on policy regarding introducing allergens to children, including recommendations by American Academy of Pediatrics and National Institute of Allergy and Infectious Disease...





Use altmetrics to describe the reach and impact of your work

"This work led to sweeping reversals on policy regarding introducing allergens to children, including recommendations by American Academy of Pediatrics and National Institute of Allergy and Infectious Disease. This work has also influenced public discourse on the topic, and the results have been shared widely on Twitter, clinicians' Facebook pages, and mass media outlets including The New York Times and Washington Post, suggesting public awareness of this topic and translation to practice."





Use altmetrics to describe the reach and impact of your work

"This work led to sweeping reversals on policy regarding introducing allergens to children, including recommendations by American Academy of Pediatrics and National Institute of Allergy and Infectious Disease. This work has influenced public discourse, and the results have been shared widely online, including in 721 news stories in 35 countries, 1,120 tweets, and 192 Facebook posts. This work was also rated as 'exceptional' and 'changes clinical practice' by 2 experts on Faculty Opinions."



Publications

- 1. Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy, NEJM, Feb 2015. 25705822.
- 2. Impact of peanut consumption in the LEAP Study: Feasibility, growth, and nutrition, The Journal of Allergy and Clinical Immunology, October 2016. 27297994.
- 3. Association of Staphylococcus aureus colonization with food allergy occurs independently of eczema severity, The Journal of Allergy and Clinical Immunology, August 2019. 31160034.
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Summary of Impact

- Of my papers published in the last 10 years,
 79% have received Altmetric attention.
- My work has been mentioned in 1,781 news stories in 45 countries, including:
 - o 20 stories in the New York Times
 - 18 stories in The Conversation
 - 16 stories in BBC News
- My work has influenced 88 policy documents in 8 countries, including government organizations in:
 - United Kingdom
 - United States
 - Netherlands
 - Australia



Let's take a look



GIDEON LACK

strategies to prevent and treat food allergies, eczema, asthma, and hay fever

Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy 2015, NEJM

The New Hork Times

New Product Is First to Claim It May Reduce Peanut Allergies



"The guidelines for how to approach allergens in children are changing, the science is changing, and it's important for parents to know."

This paper has been cited in 20 patent applications, the majority of which are for new products to introduce allergens to infants by mixing powders into their food or milk/formula. This, in addition to sweeping reversals on policy regarding introducing allergens to children, demonstrate that this research is impacting patient care and current research is evaluating the decline in childhood allergies as a result.



GIDEON LACK

strategies to prevent and treat food allergies, eczema, asthma, and hay fever

Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy 2015, NEJM









Paper Published

Published in NEJM

News attention

In the days following publication, paper received attention in 73 news stories

Change in innovation

The first patent application citing this research was submitted in Jan 2016.

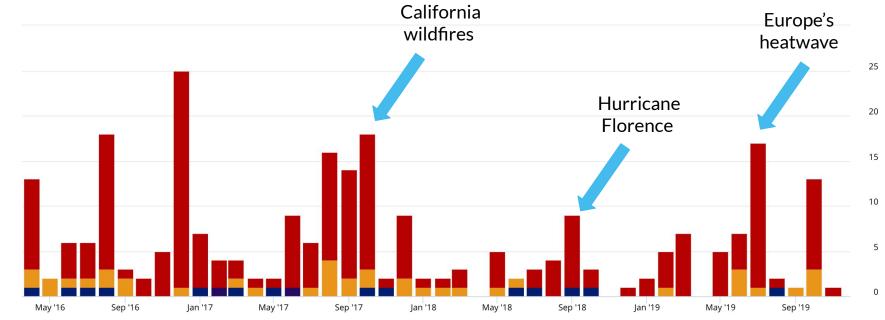
AAP changes guidelines

In a major reversal, the AAP changes their recommendation on the introduction of peanuts to infants.

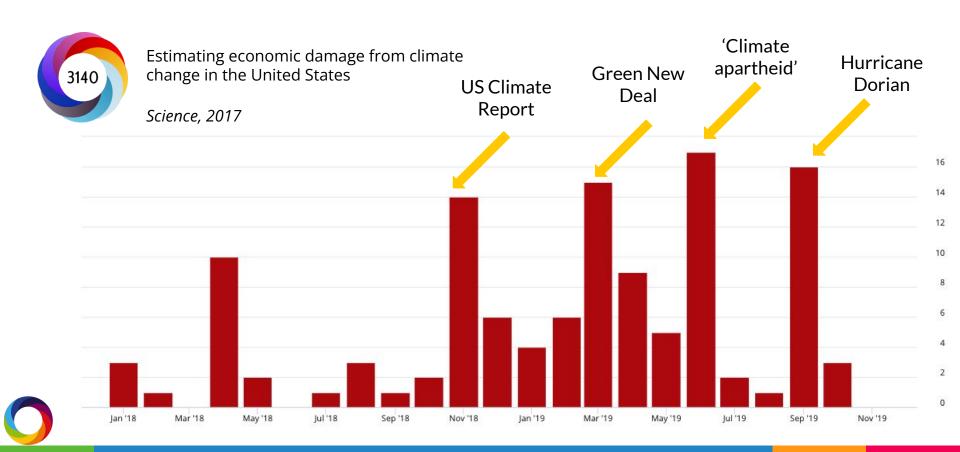
Research being shared at key moments

Attribution of Extreme Weather Events in the Context of Climate Change

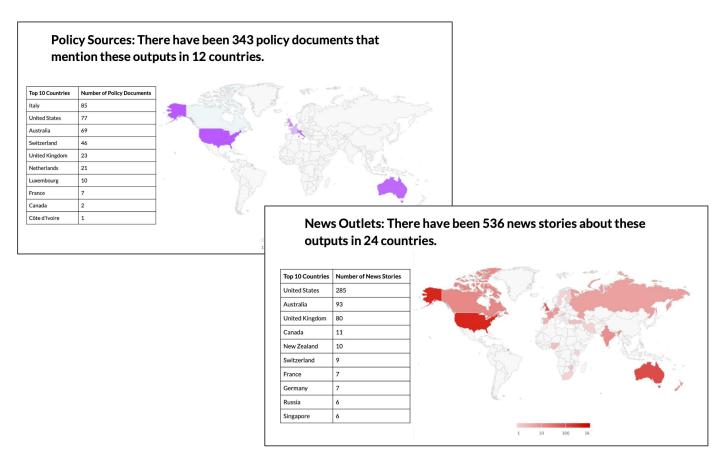




Research being shared at key moments

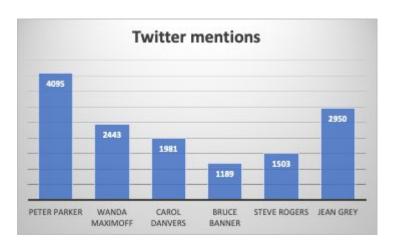


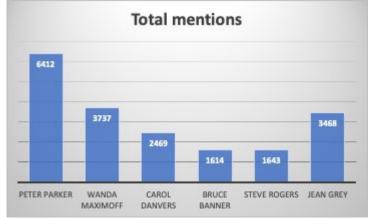
Global attention

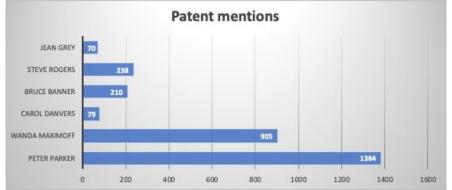




Comparing attention by researcher, university, journal, funder, etc.









Communicating the reach of research on Twitter

Top 10 tweeters	Number of tweets	Followers	
DrMiguelPerales		66	15,506
AGCT_team		64	159
BLLPHD		53	5199
BldCancerDoc		50	16808
celltrialsdata		48	1122
Transplant_Doc		41	6162
aljurf100		33	1606
drjgauthier		31	3971
Mohty_EBMT		31	11239
DrRaulCordoba		29	7108

This is a Top 10 list of the Twitter accounts that are tweeting about Prof. Parker's research the most. Column 2 lists the number of times they've tweeted about his work and Column 3 lists their number of followers. Data taken from the Mentions Sources tab in Altmetric Explorer.



Communicating the reach of research on Twitter

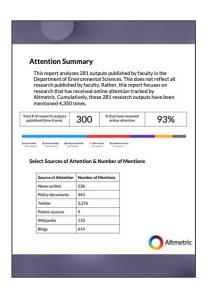
Top 10 most influential tweeters	Number of tweets	Followers	
ScienceMagazine		1	2,400,000
NEJM		7	862,125
EricTopol		3	540,969
CMichaelGibson		1	438,219
NatureMedicine		2	263,069
georgebest1969		1	209,812
ASCO		1	123,970
matthewherper		2	107,577
sloan_kettering		1	91,787
biorxivpreprint		1	84,550

This is a Top 10 list of the most influential Twitter accounts that are tweeting about Prof. Parker's research. Column 2 lists the number of times they've tweeted about his work and Column 3 lists their number of followers. These 10 accounts alone have upwards of 5 million followers; Prof. Parker's research has also been shared by an additional 2,700 Twitter users. Data taken from the Mention Sources tab in Altmetric Explorer



Report example







Let's chat! engagement@altmetric.com

Or request at demo at support@altmetric.com!



Questions? support@altmetric.com