



Sheffield Hallam University: An introduction to Altmetric Explorer

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Altmetric Basics: overview of altmetrics and Altmetric

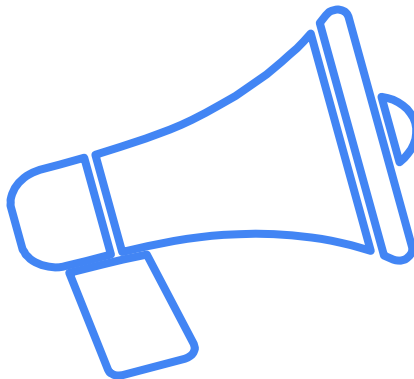


Terminology



Output

An individual research product
(journal article, book, etc..)



Source

Place where research is shared (social media, news outlets, etc.)



Mention

A share, reference to, or engagement with a research output



Most stakeholders that research is meant to reach **do not publish or do research**.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

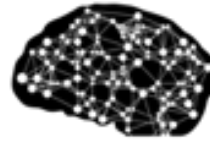
Altmetric uncovers who they are...



General Public



Government &
Policy Makers



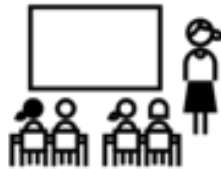
Investigators



Research
communicators/
watchdogs



Practitioners



Advocacy/
Non-profits



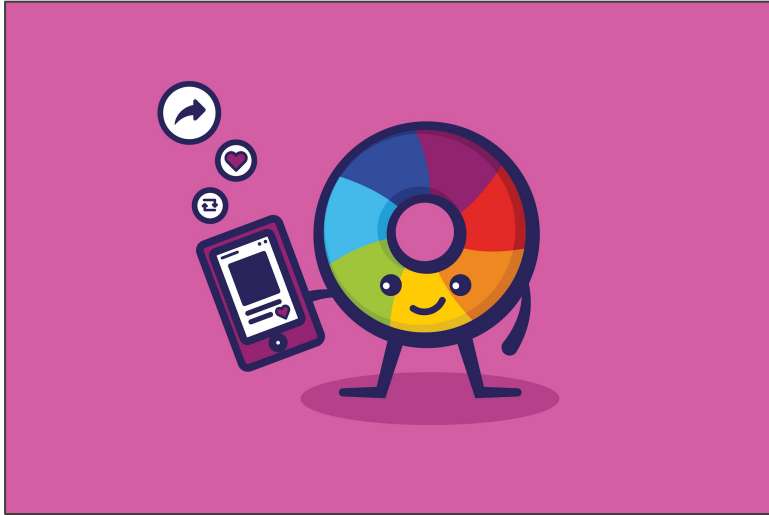
Tech Transfer



Interested parties



ALTMETRICS



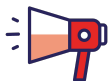
Indicators of
non-traditional attention
and engagement with
digitally published
research and scholarship.



ALternative METRICS



Data that explain both the volume and nature of attention research has received online



Can measure how many people have shared or engaged with a scholarly output online and where

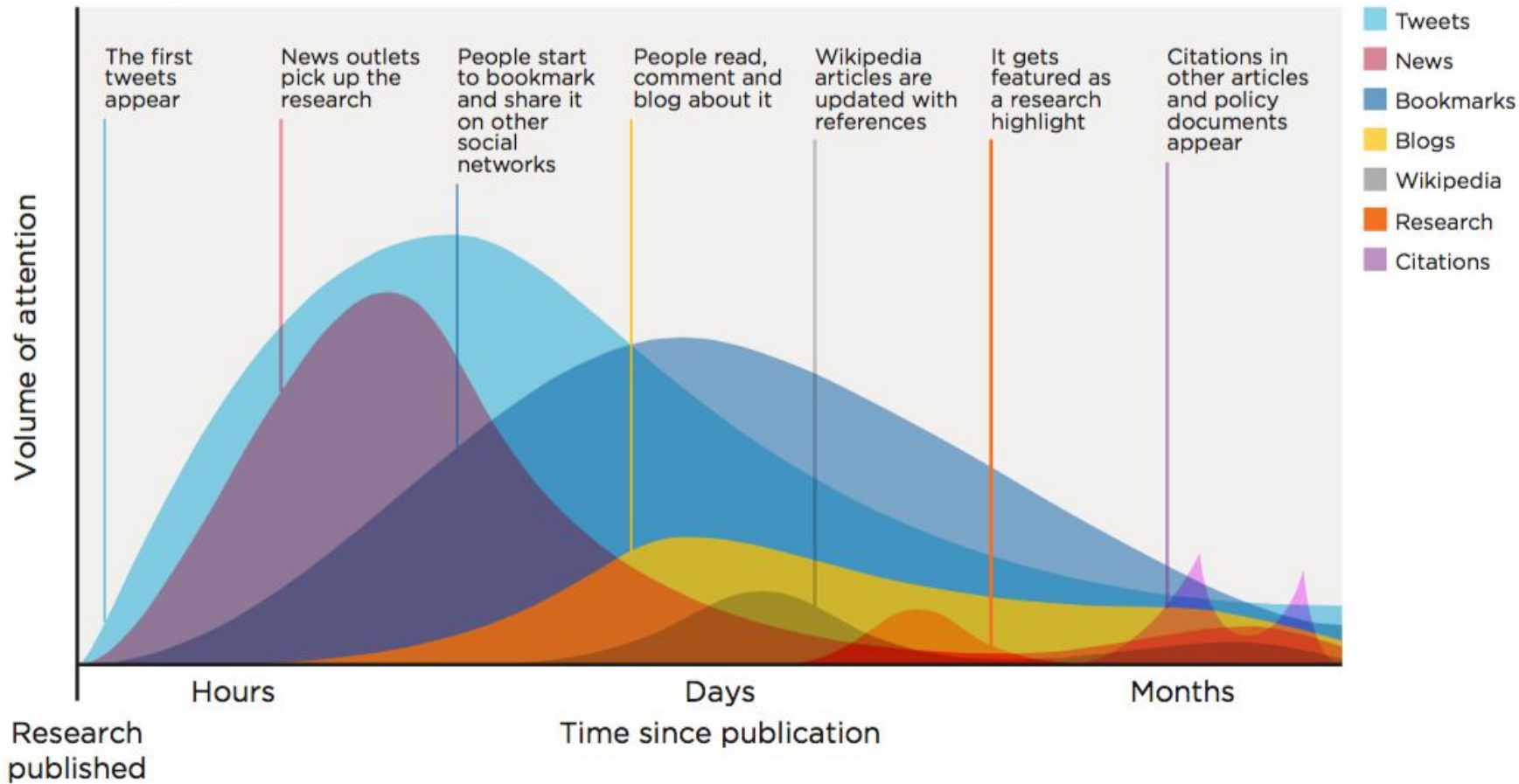


Provides evidence of engagement with diverse audiences and potential impact



Complementary to bibliometrics (citation-based)





Altmetric Attention Sources

What does the donut represent?

The Colors of the Donut

- | | |
|-------------------------------|----------------------|
| Policy documents | Google+ |
| News | LinkedIn |
| Blogs | Reddit |
| Twitter | Faculty1000 |
| Post-publication peer-reviews | Q&A (Stack Overflow) |
| Facebook | Youtube |
| Sina Weibo | Pinterest |
| Syllabi | Patents |
| Wikipedia | |



17 categories representing thousands of websites

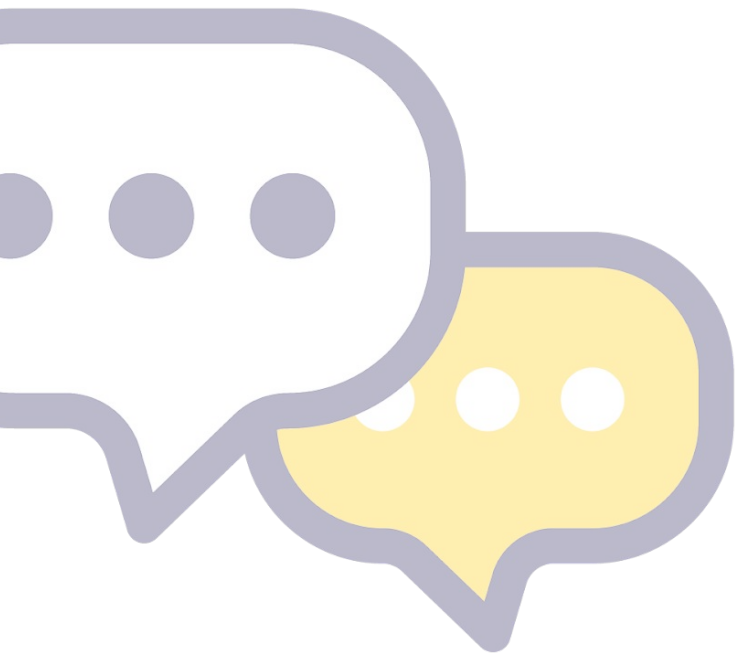


What does the score represent?



Mention type	Weight Points
News	8
Blogs	5
Twitter	1
Facebook	0.25
Sina Weibo	1
Wikipedia	3
Policy Documents (per source)	3
Patents	3
Q&A	0.25
F1000/ Publons/ Pubpeer	1
YouTube	0.25
Reddit/Pinterest	0.25
LinkedIn	0.5





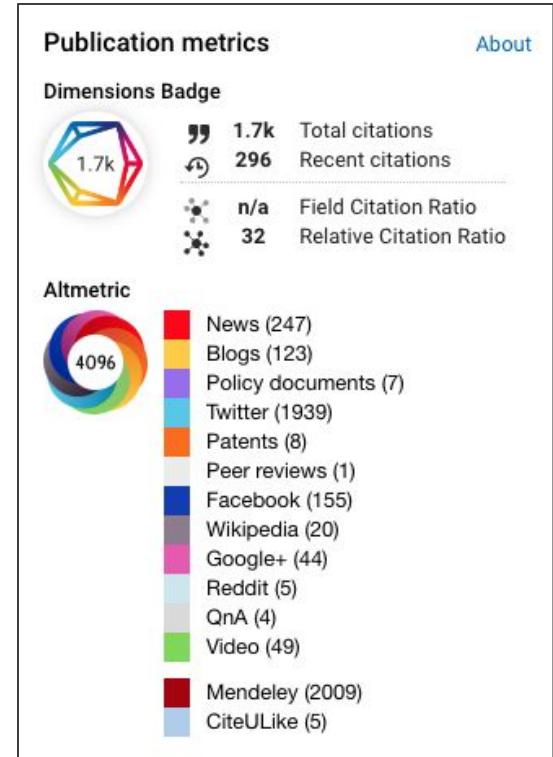
Context is key

Look at what people are saying, not just at the numbers

Attention \neq positive impact or quality



Not all attention is positive attention!



Not all attention is positive attention!

THE LANCET

Log in

EARLY REPORT | VOLUME 351, ISSUE 9103, P637-641, FEBRUARY 28, 1998

PDF [942]

RETRACTED: Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children

Dr AJ Wakefield, FRCS · SH Murch, MB · A Anthony, MB · J Linnell, PhD · DM Casson, MRCP · M Malik, MRCP · et al.

[Show all authors](#)

Published: February 28, 1998 · DOI: [https://doi.org/10.1016/S0140-6736\(97\)11096-0](https://doi.org/10.1016/S0140-6736(97)11096-0)

Summary

Background

We investigated a consecutive series of children with chronic enterocolitis and regressive developmental disorder.


Methods





RETRACTED

Publication metrics


[About](#)

Dimensions Badge

 1.7k

	1.7k	Total citations
	296	Recent citations
	n/a	Field Citation Ratio
	32	Relative Citation Ratio

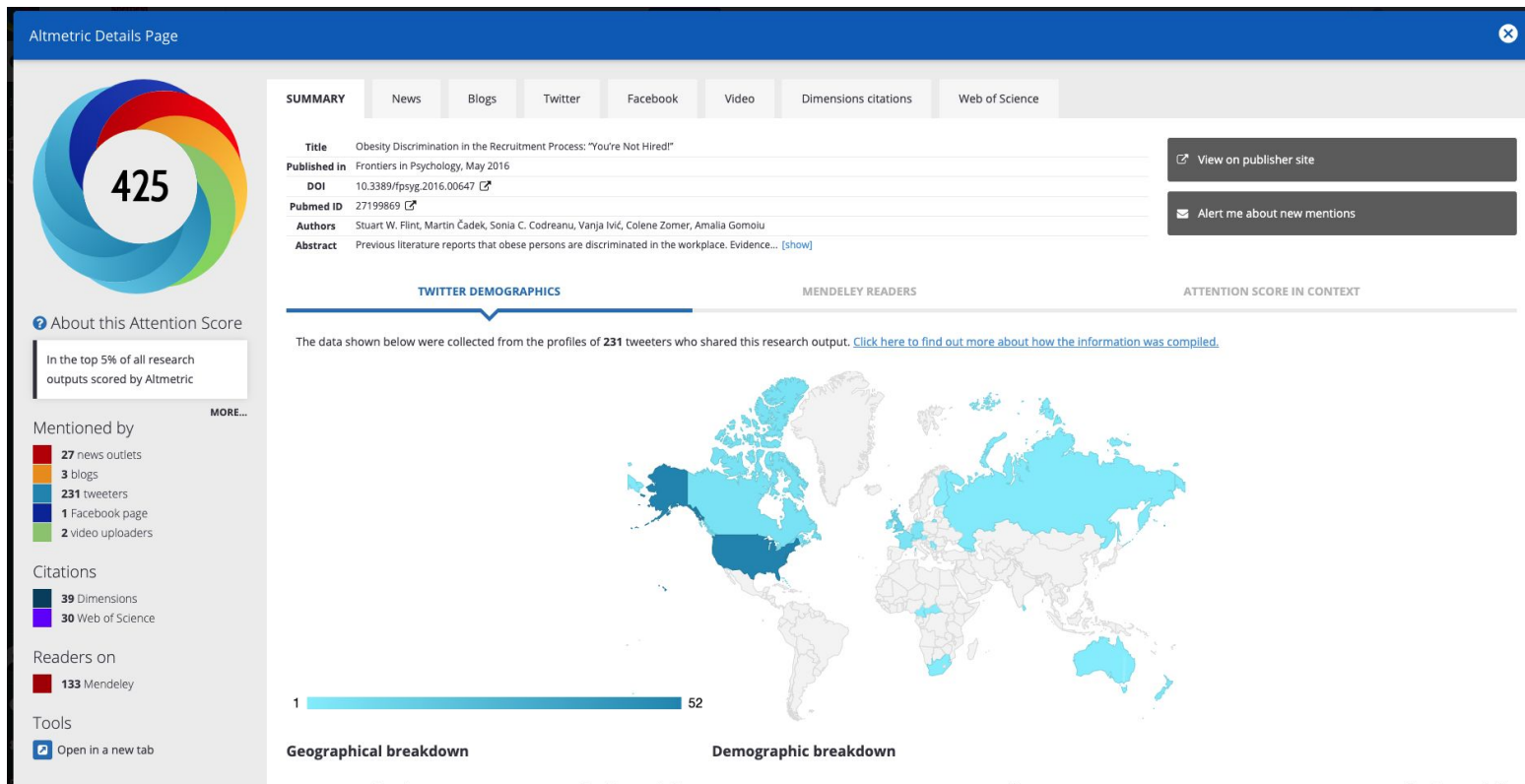
Altmetric

 4096

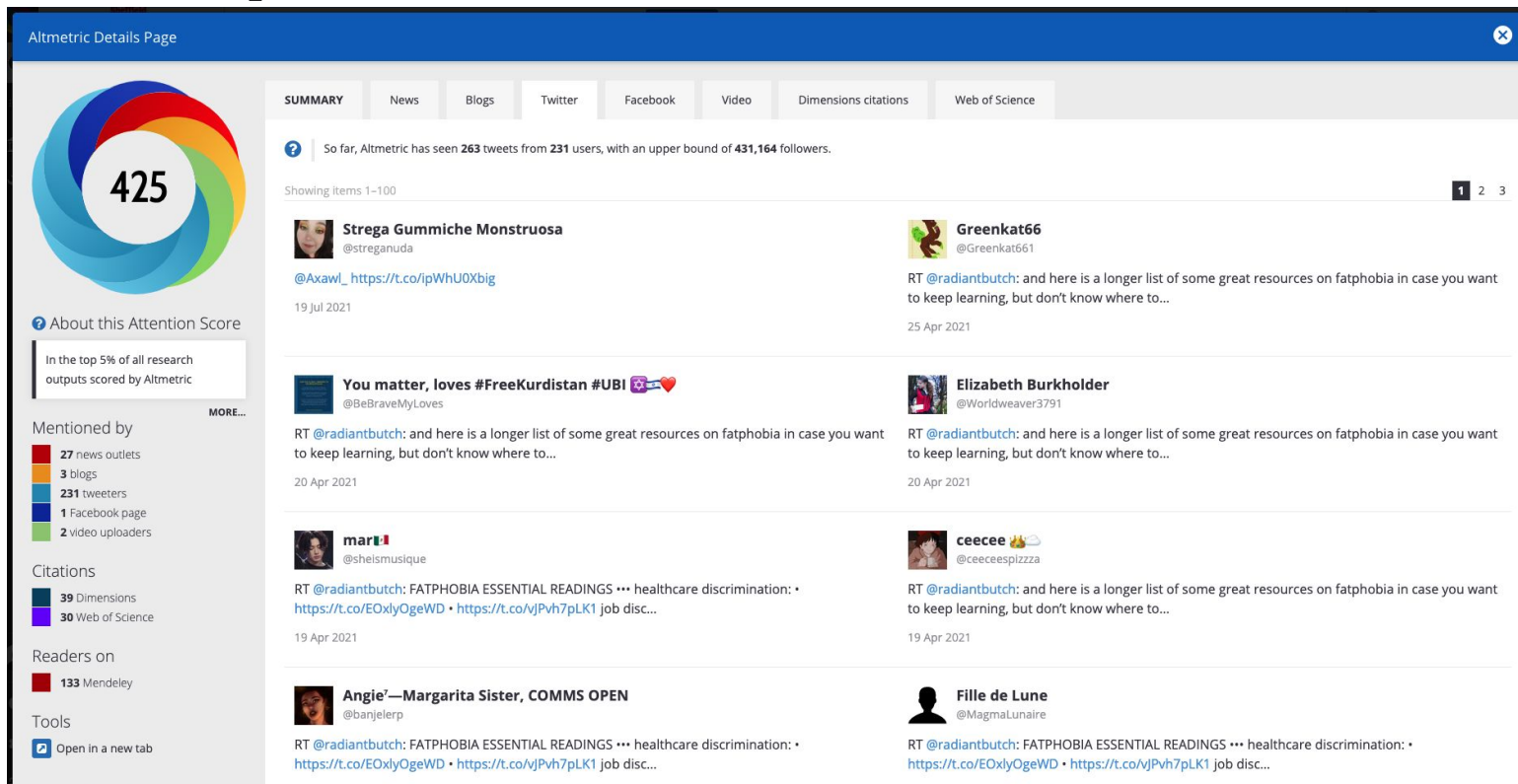
News	(247)
Blogs	(123)
Policy documents	(7)
Twitter	(1939)
Patents	(8)
Peer reviews	(1)
Facebook	(155)
Wikipedia	(20)
Google+	(44)
Reddit	(5)
QnA	(4)
Video	(49)
Mendeley (2009)	
CiteULike	(5)

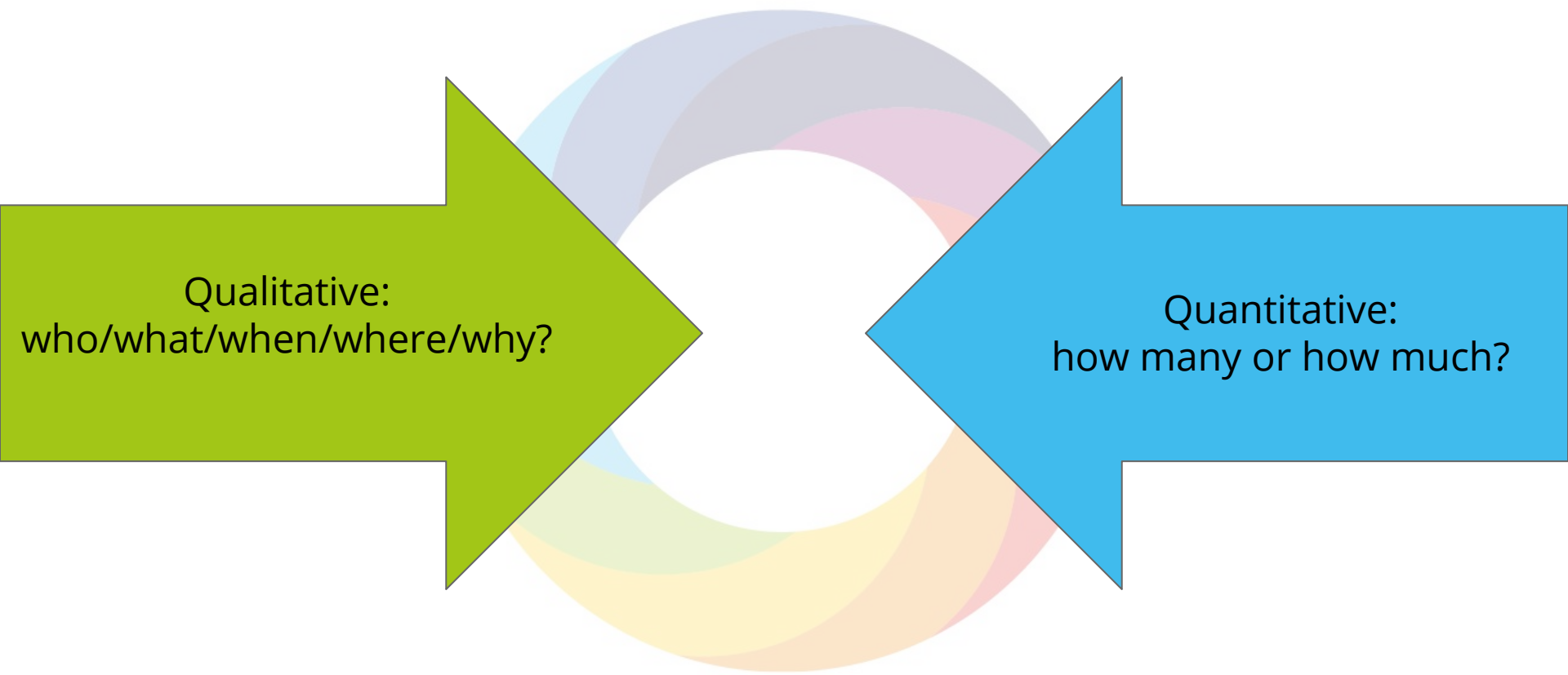


Look past the score



Look past the score





For research to be tracked, we need...



A research output
with a...



Persistent identifier
that is...



Mentioned in a
source we track



The identifiers we track

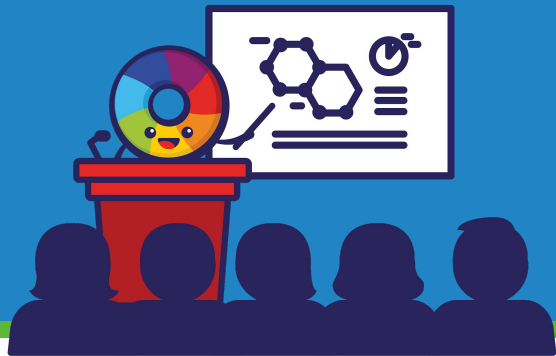


DOIs	General
PubMed ID	Health Sciences
arXiv ID	Physics, Mathematics & Computer Sciences
ADS ID	Astrophysics data system
SSRN ID	Social Sciences
RePEC ID	Economics
Handles	General
URNs	General (European Irs)
URLs	General
Clinicaltrials.gov	Clinical Studies

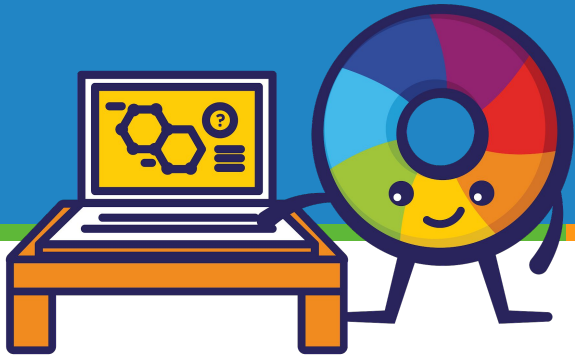


Live Demonstration

altmetric.com/explorer



Altmetric in Action: How to use Altmetric data



How to ensure online attention is tracked by Altmetric: A donut's journey



How do I make sure
Altmetric tracks
mentions of my work
online?



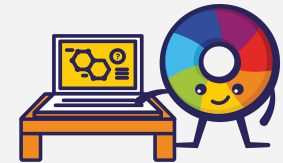
Altmetric relies on
identifiers, like DOIs, to
match up mentions with
publications. Identifiers
are usually located on
journal websites or
repositories.



When sharing research
online, e.g. Twitter,
always include a link to
the journal or other page
where the publication
was originally posted so
Altmetric can track the
identifier.



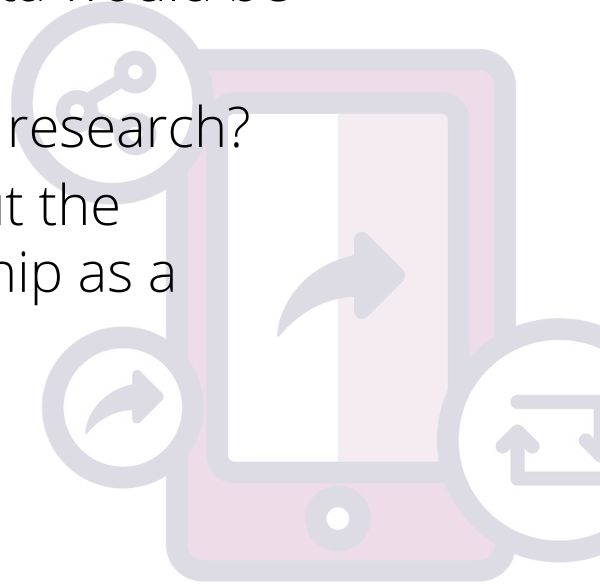
Encourage journalists,
bloggers, and other
science communicators
to do the same and
watch attention to your
research grow!



Learn more by watching
this short [video](#) or view
this [blog post](#).

Shape your dissemination strategy

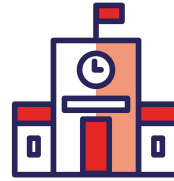
- What sentiment tendencies emerge from sources and source types?
- What geographic and other demographic data would be useful to me?
- Where are people accessing and sharing my research?
- How might Altmetric data offer insights about the landscape my field of research and scholarship as a whole?



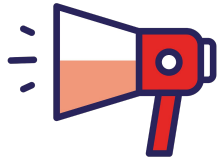
Using altmetrics to choose where to publish



Identify journals with the most reach



Learn which journals are read by your audience



Find journals that can help you promote your work



Using altmetrics to strengthen funding applications

Altmetrics can
offer additional
insight for
review panels



Using altmetrics in your CV and tenure applications

Provide context: Percentiles

Use appropriate metrics: What is the real-world outcome of your research and how can you evidence that?

Choose longform evidence:
provide context behind the numbers



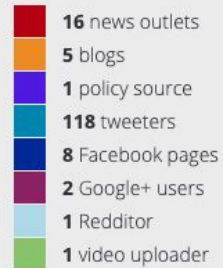


Craft compelling narratives when writing grants, going up for tenure, applying for jobs, writing promotional materials.





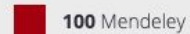
Mentioned by



Citations



Readers on



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

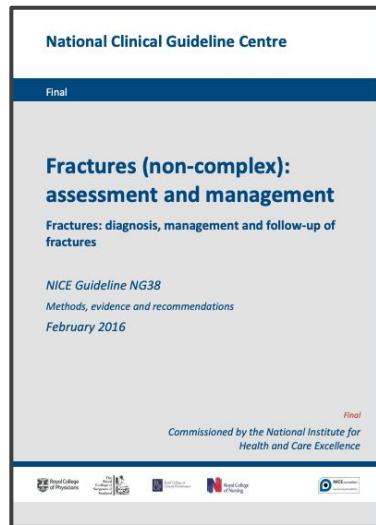
Canadian Medical Association Journal, October 2014
10.1503/cmaj.140907





Policy citations

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



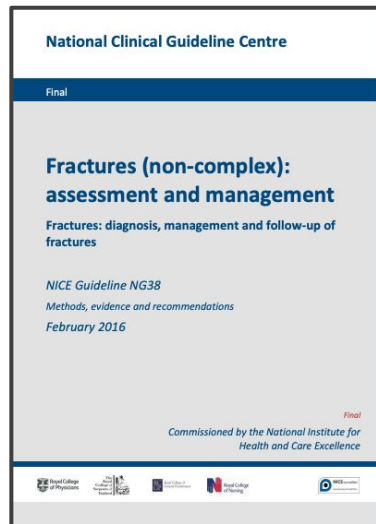
Review question: What is the most effective initial acute pharmacological management to alleviate pain in patients with a suspected long bone fracture (tibia and fibula, humerus, radius and ulna, or unspecified) in acute care settings?





Policy citations

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.

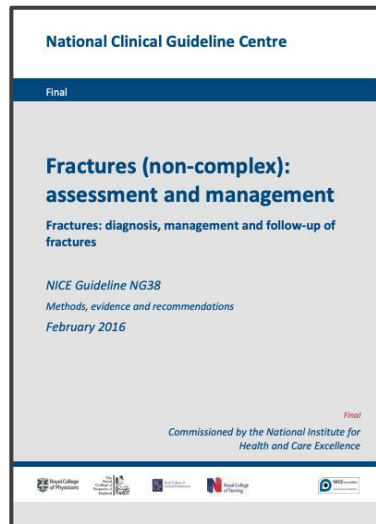
Moderate quality evidence from a single RCT of 134 patients demonstrated a clinical harm of oral NSAIDs over oral morphine in the reduction of further need for analgesia, with serious imprecision.





Policy citations

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,

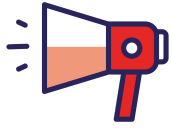
Recommendations and link to evidence

Children

1. For the initial management of pain in children (under 16s) with suspected long bone fractures of the legs (femur, tibia, fibula) or arms (humerus, radius, ulna), offer:
 - oral ibuprofen, or oral paracetamol, or both for mild to moderate pain
 - intranasal or intravenous opioids for moderate to severe pain (use intravenous opioids if intravenous access has been established).

Recommendations

NSAIDs over oral morphine in the reduction of further need for analgesia, with serious imprecision.



Mass media attention

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

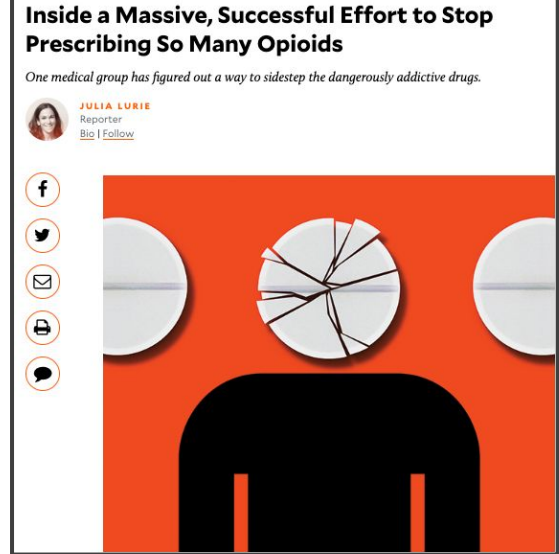


REUTERS

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.

MotherJones



Blog & Podcast:



EMERGENCY MEDICINE CASES

Bringing you Canada's brightest minds in Emergency Medicine



Social media attention

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





Forming a narrative

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

Key considerations:

- Who is benefitting from the research?
- When/where are conversations taking place?
- So what?





Forming a narrative

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...”





Forming a narrative

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.”



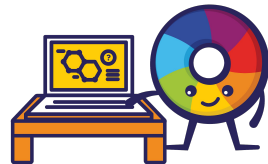


Forming a narrative

Use altmetrics to describe the reach and impact of your work

Short summary with numbers:

In addition to being cited 40 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."



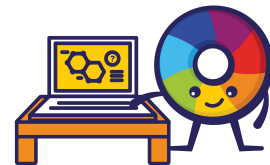


Using altmetrics in references

Use altmetrics to describe the reach and impact of your work

Grant Application Supporting References

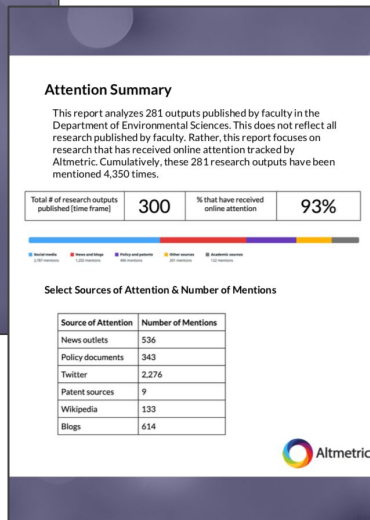
1. Rapid Declines in Age Group-Specific Rotavirus Infection and Acute Gastroenteritis Among Vaccinated and Unvaccinated Individuals Within 1 Year of Rotavirus Vaccine Introduction in England and Wales. The Journal of Infectious Diseases, 213(2), 243-249, January 2016. **RCR: 5.62; Cited in 23 weekly Public Health England norovirus reports (Dimensions; Altmetric)**
2. Effectiveness of oral rotavirus vaccination in England against rotavirus-confirmed and all-cause acute gastroenteritis Vaccine X, March 2019. **Cited in Pediatric News (Altmetric)**
3. Replication of human noroviruses in stem cell-derived human enteroids Science, 353(6306), 1387-1393, September 2016. **RCR: 112; Top 4% of papers published in Science (Dimensions; Altmetric)**



Using altmetrics in reports



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Questions?

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engagement@altmetric.com