

PUBLISHING AND THE FUTURE OF MEDICAL JOURNALS



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FIRST ENGLISH
MEDICAL
JOURNAL
1684

(57)

Numb. 2.

MEDICINA CURIOSA:

O R,

A Variety of new Communications in Physick, Chirurgery, and Anatomy, from the Ingenious of many Parts of Europe, and some other Parts of the World.


October 23. 1684.

The Contents.

1. *An Extract of the chief Cures contain'd in a Book call'd, A Rational Practice of Chirurgery: set forth this Year in the Latine Tongue, by John Muys, M. D. at Leyden, in 12°.*
2. *An Extract of some Physical Matters contain'd in a Book call'd; Memoirs for the natural History of Humane Blood, especially the Spirit of that Liquor: set forth this Year in English by the Honourable Robert Boyle, in 8°. London.*
3. *An Extract of the chief Matters relating to Practise, contain'd in a Book call'd, Observations on Fevers and Febrifuges: set forth this Year the second time in the French Tongue, by Dr. Spon, with the Addition of more than a half. in 12°. Lyons.*
4. *The Use of Quinquina for curing Fevers, publish'd by the French King's Order: extracted from the sixth Journal des Scavans of the last Year.*
5. *The English Remedy, according as it is publish'd by Monsieur de Blegny. M. D.*
6. *A Febrifuge, or Secret for curing Intermittent Fevers: extracted from the seventh Journal di Literati of Rome, set forth An. 1679, said to be the famous Secret of Riverius.*



MEDICAL JOURNALS



The landscape of medical publishing is undergoing dynamic transformations, driven by technological advancements, evolving research practices, and changing reader preferences

[https://www.linkedin.com/pulse/
future-medical-publishing-exploring](https://www.linkedin.com/pulse/future-medical-publishing-exploring)

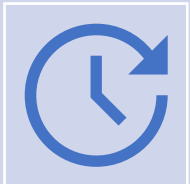
OBJECTIVES



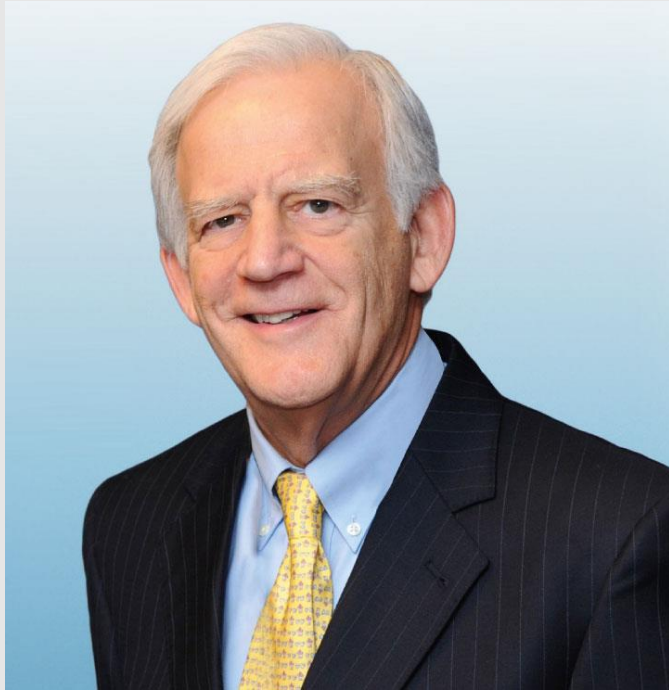
Publishing in 2024

Conducting studies

Understand the editorial process



Publishing and medical journals of the future



“The primary objective of a medical journal is to publish important new information that influences clinical care or subsequent research.”

DeMaria JACC 2003



Getting published starts with a good study....

PUBLISHING RESEARCH IN 2024



**CONCEIVING A RESEARCH
STUDY**



CONDUCTING A STUDY



GETTING PUBLISHED

PUBLISHING RESEARCH IN 2024



CONCEIVING A RESEARCH
STUDY



CONDUCTING A STUDY



GETTING PUBLISHED



A good study starts with a good research question....

CRITERIA FOR DECIDING ON A STUDY TOPIC

FINER CRITERIA

Feasible

Interesting

Novel

Ethical

Relevant




LOCAL EXPERTISE



LOCAL EXPERTISE

CENTRAL ILLUSTRATION: Cardiovascular and Noncardiovascular Prescribing and Mortality Outcomes After Takotsubo Syndrome



Study Design
All 620 takotsubo syndrome cases identified in Scotland between 2010 and 2017

- 2,480 general scottish population controls
- 620 myocardial infarction controls

Electronic data linkage for analysis of hospital admissions, mortality, and prescribing

Medication

There were similar rates of prescribing of conventional cardiovascular medications in takotsubo syndrome and myocardial infarction.

Conventional cardiovascular medications were associated with increased survival in patients with myocardial infarction.

Conventional cardiovascular medications were **NOT** consistently associated with increased survival in patients with Takotsubo Syndrome.

Study Population

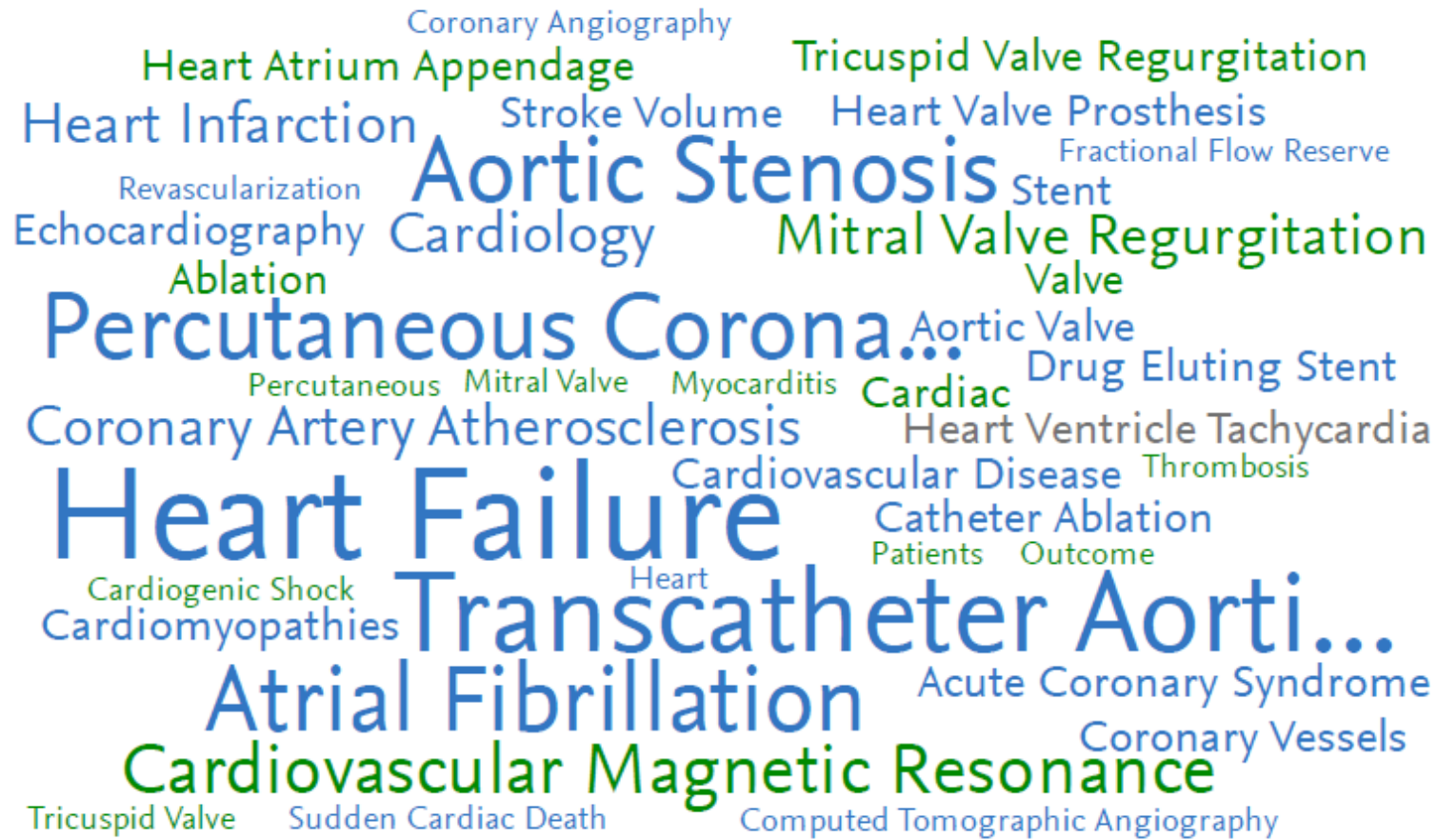
- 91% women
- Mean age 66 years
- Median follow-up period of 5.5 years

Mortality

Takotsubo syndrome was associated with an increased risk of mortality due to cardiovascular causes when compared to the general population (HR:2.69).

Mortality from noncardiovascular causes was predominantly due to pulmonary conditions.

Rudd AE, et al. JACC Adv. 2024;■(■):100797.



A A A relevance of keyphrase | declining A A A growing (2018-2022)

KEYPHASE ANALYSIS JACC JOURNAL 2018-2022

Courtesy of Corina Negru (ELSEVIER). Data source [Scopus](#). Aggregation tool [SciVal](#)

TRENDS....

MACHINE LEARNING IN MEDICAL RESEARCH

Medical research papers increasingly mention machine learning algorithms or approaches

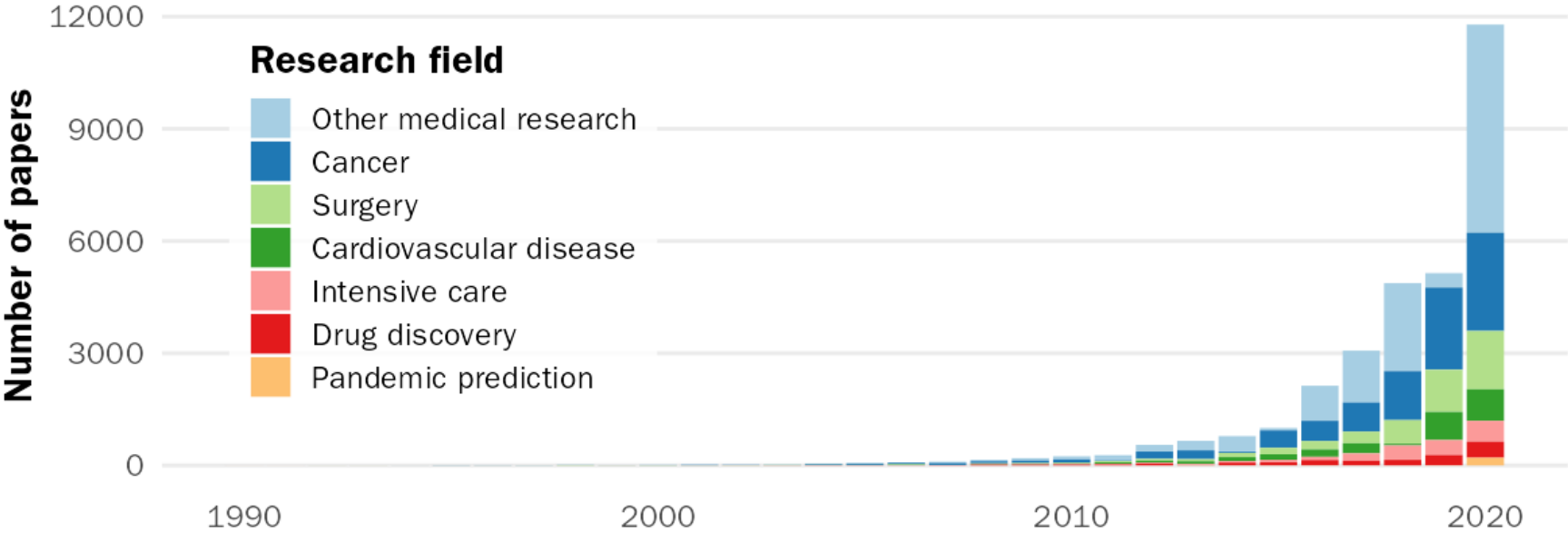



CHART: James Goldie, 360info

DATA: Pugliese et al. 2021 <doi.org/10.1016/j.dsm.2021.12.002>





**THE BEST IDEAS EMERGE
WHEN VERY DIFFERENT
PERSPECTIVES MEET**

FRANS JOHANSSON

PICTUREQUOTES.COM



PUBLISHING RESEARCH IN 2024



CONCEIVING A RESEARCH
STUDY



CONDUCTING A STUDY




GETTING PUBLISHED



Early experiments in transportation

- Guidelines to improve the transparency, clearness and completeness of scientific literature
- The **CONSORT** statement is made up of a 25-item checklist that provides the author with a solid backbone around which to construct and present a randomized trial

 Reporting guidelines for main study types		
<u>Randomised trials</u>	<u>CONSORT</u>	<u>Extensions</u>
<u>Observational studies</u>	<u>STROBE</u>	<u>Extensions</u>
<u>Systematic reviews</u>	<u>PRISMA</u>	<u>Extensions</u>
<u>Study protocols</u>	<u>SPIRIT</u>	<u>PRISMA-P</u>
<u>Diagnostic/prognostic studies</u>	<u>STARD</u>	<u>TRIPOD</u>
<u>Case reports</u>	<u>CARE</u>	<u>Extensions</u>
<u>Clinical practice guidelines</u>	<u>AGREE</u>	<u>RIGHT</u>
<u>Qualitative research</u>	<u>SRQR</u>	<u>COREQ</u>
<u>Animal pre-clinical studies</u>	<u>ARRIVE</u>	
<u>Quality improvement studies</u>	<u>SQUIRE</u>	<u>Extensions</u>
<u>Economic evaluations</u>	<u>CHEERS</u>	

REGISTRATION OF CLINICAL STUDIES

About ClinicalTrials.gov

On this page

[What is ClinicalTrials.gov and who uses it?](#)

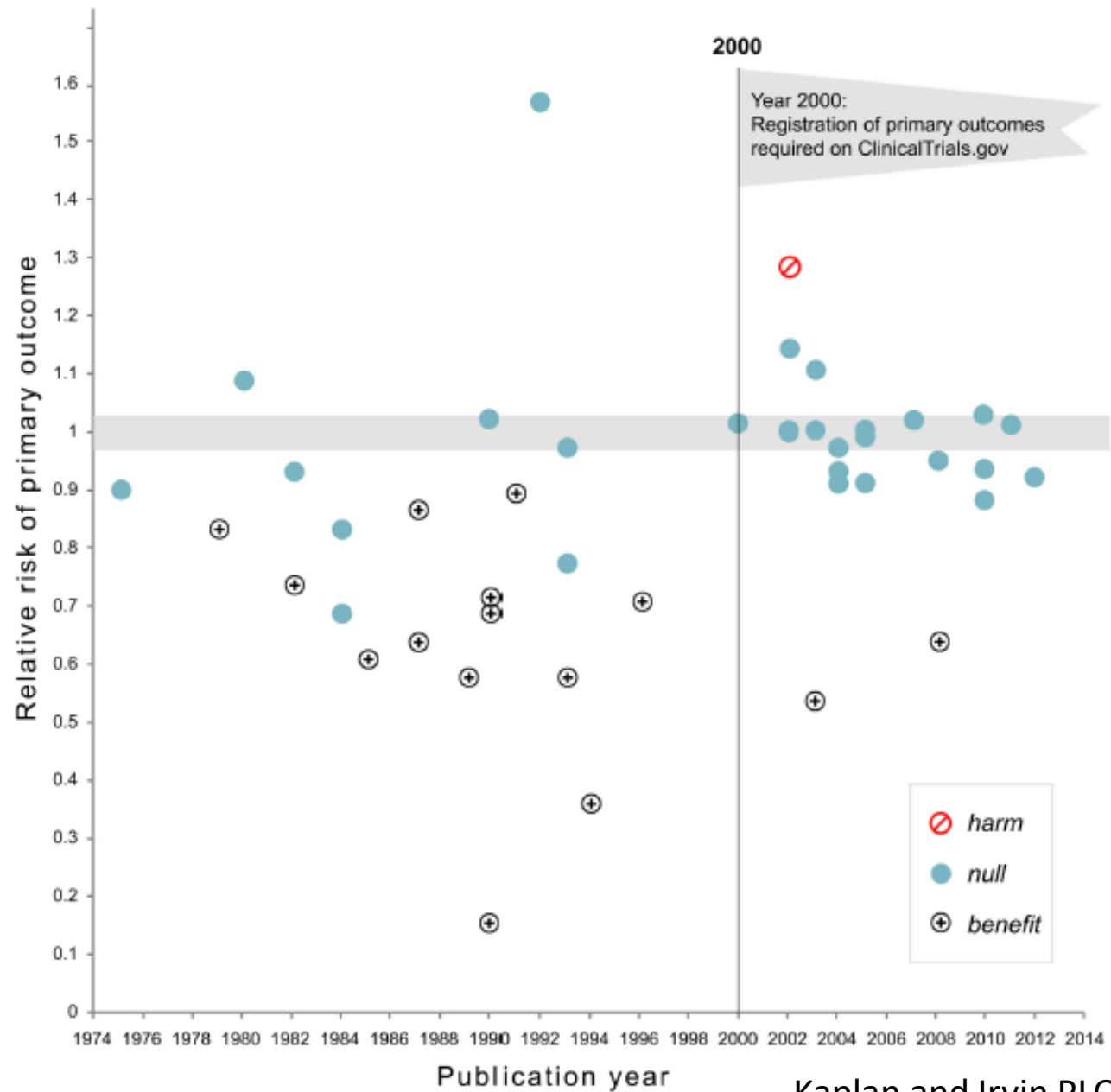
[Does the U.S. Government approve all studies listed in the ClinicalTrials.gov database?](#)

[What clinical studies can be listed in](#)

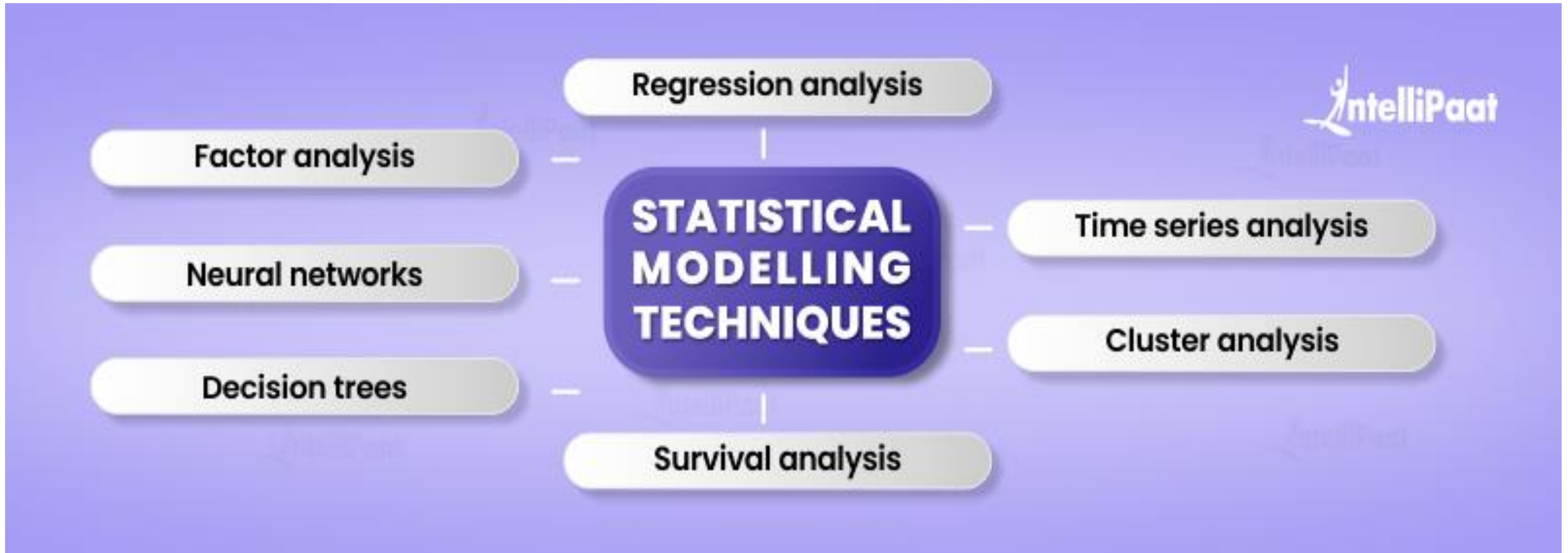
What is ClinicalTrials.gov and who uses it?

ClinicalTrials.gov is a **website** and **online database** of [clinical research studies](#) and information about their results. The purpose of ClinicalTrials.gov is to provide information about clinical research studies to the public, researchers, and health care professionals. The U.S. government does not review or approve the safety and science of all studies listed on this website.

REPORTING BIAS



STATISTICAL ANALYSIS



PUBLISHING RESEARCH IN 2024



**CONCEIVING A RESEARCH
STUDY**



CONDUCTING A STUDY



GETTING PUBLISHED

GETTING YOUR MANUSCRIPT PUBLISHED

Pick the right journal

<https://scientific-publishing.webshop.elsevier.com/research-process/how-to-choose-a-journal-to-submit-an-article/>





JACC

Advances

- *JACC: Advances* is an open-access, peer-reviewed, cardiovascular journal that publishes Original Research papers and State-of-the-art reviews focused on cardiovascular medicine, including emerging areas.
- The Journal considers a broad range of original research studies including clinical, experimental investigations with clear clinical relevance, epidemiological, and healthcare policy studies that advance cardiovascular health.



THE DARK SIDE OF PUBLISHING

The explosion in open-access publishing has fuelled the rise of questionable operators.

“2012 WAS THE
YEAR OF THE
PREDATORY
PUBLISHER;
THAT WAS
WHEN THEY
REALLY
EXPLODED.”



PEER REVIEW

PEER REVIEW

'Peer review to the public is portrayed as a quasi-sacred process that helps to make science our most objective truth teller, but we know that the system of peer review is biased, unjust, unaccountable, incomplete, easily fixed, often insulting, usually ignorant, occasionally foolish, and frequently wrong'.



Richard Horton
Editor-in-Chief, The Lancet



Reviewer



Author

Double blind



Reviewer



Author

Single blind



Reviewer



Author

Open

PEER REVIEW

New approaches to improve peer review are being considered and tested

Double-anonymous peer review, where both reviewers' and authors' identities are concealed with the goal of reducing bias

PREPRINT SERVERS



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[Advanced Search](#)

Caution: Preprints are preliminary reports of work that have not been certified by peer review. They should not be relied on to guide clinical practice or health-related behavior and should not be reported in news media as established information.



DECISION LETTERS AND WHAT THEY MEAN

DECISIONS	WHAT THEY MEAN
Reject without review	Not suitable for journal
Transfer to a sister journal	More suitable for another journal

HANDLING DISAPPOINTMENT



KEEP

CALM

AND

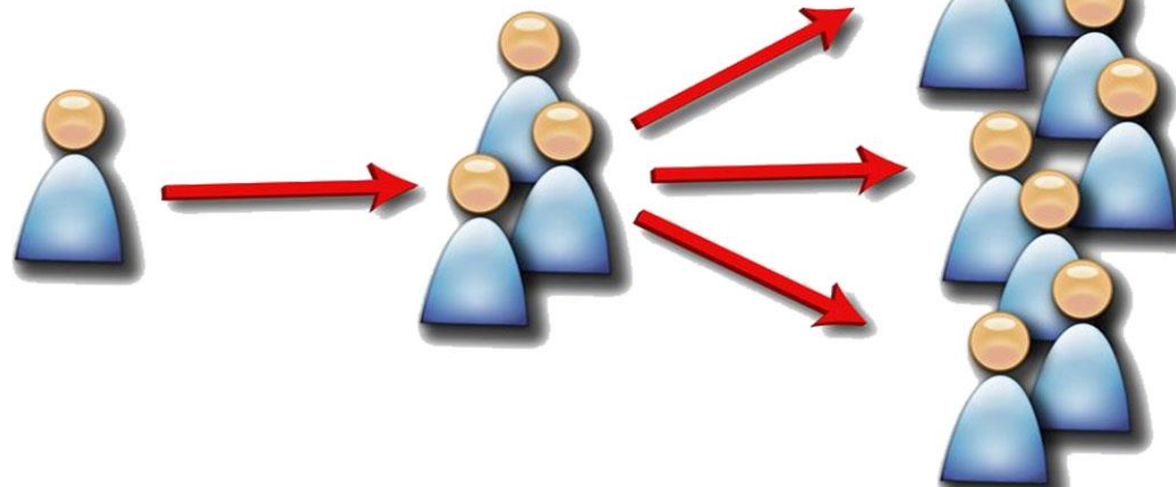
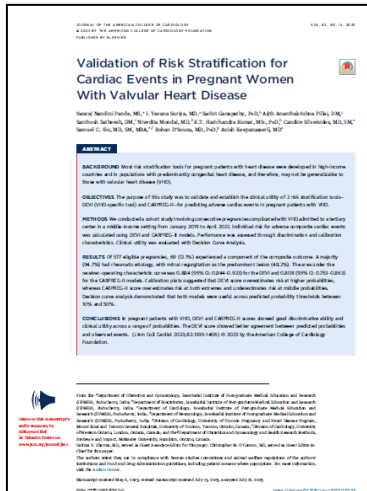
DON'T TAKE IT

PERSONALLY

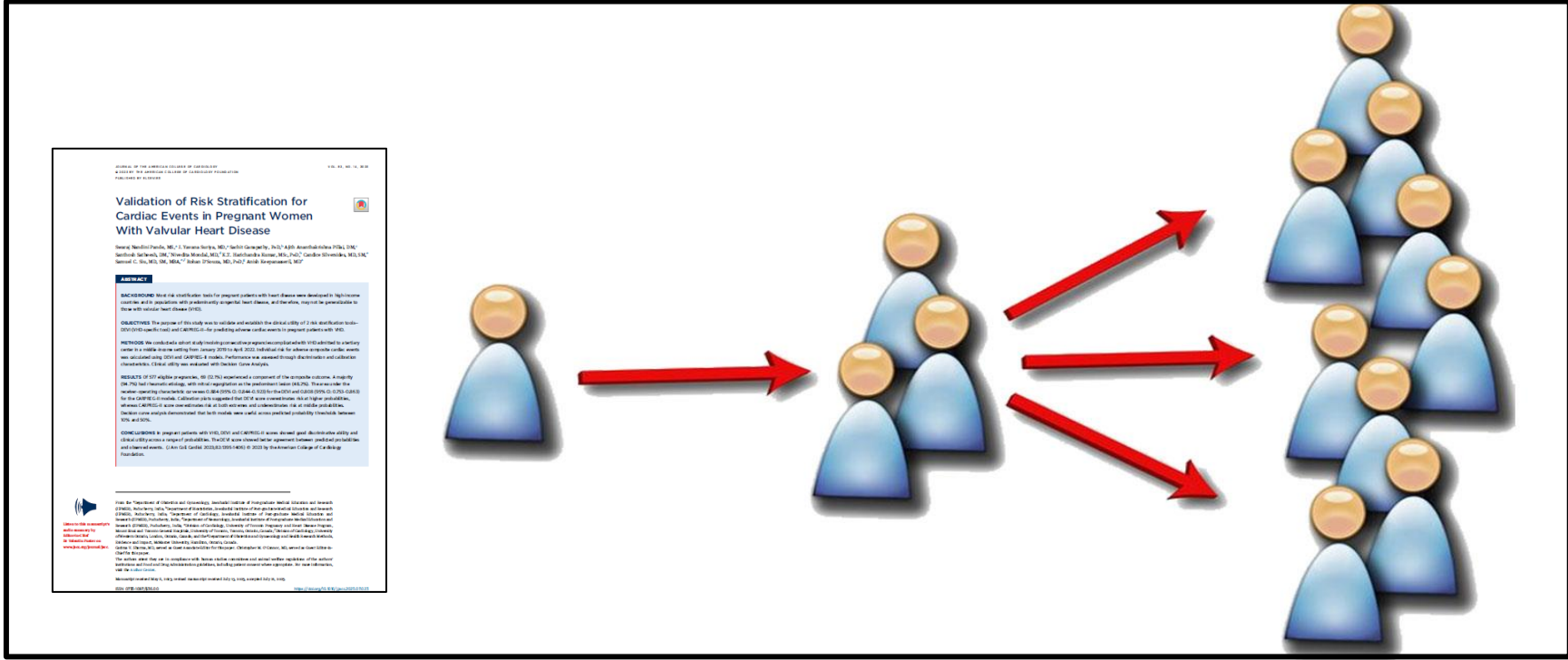
DECISION LETTERS AND WHAT THEY MEAN

DECISIONS	WHAT THEY MEAN
Reject without review	Not suitable for journal
Transfer to a sister journal	More suitable for another journal
Reject after review	Not acceptable
Major or minor revisions	Editors are seriously considering the manuscript
DeNovo resubmission	Editors like the paper, but major issues need to be addressed

WOGHOO!



DISSEMINATE YOUR WORK




DISSEMINATE YOUR WORK



2022
>13,500,000



THE MEDICAL JOURNAL OF THE FUTURE



PAPER
JOURNALS WILL
BE LESS
COMMON

FIGURE 1 JACC Journals' Editors-in-Chief



JOURNAL FAMILIES

GLOBAL APPROACH TO RESEARCH



JACC Journals publish international research

Entity: All JACC Journals · Year range: 2018 to 2022 · Data source: Scopus, up to 10 Jan 2024

Scholarly Output



Courtesy of Corina Negru (ELSEVIER)

OPEN ACCESS

	 <table border="1"><tr><td data-bbox="1582 335 1803 468">Reach</td><td data-bbox="1811 335 2145 468"><ul style="list-style-type: none">• Find it• No barriers = discoverability• New audiences</td></tr><tr><td data-bbox="1582 482 1803 615">Rigour</td><td data-bbox="1811 482 2145 615"><ul style="list-style-type: none">• Trust it• Open = transparency• Quality peer-review</td></tr><tr><td data-bbox="1582 629 1803 751">Relevance</td><td data-bbox="1811 629 2145 751"><ul style="list-style-type: none">• Use it• Higher usage = research imp.• Citations and collaboration</td></tr></table>	Reach	<ul style="list-style-type: none">• Find it• No barriers = discoverability• New audiences	Rigour	<ul style="list-style-type: none">• Trust it• Open = transparency• Quality peer-review	Relevance	<ul style="list-style-type: none">• Use it• Higher usage = research imp.• Citations and collaboration
Reach	<ul style="list-style-type: none">• Find it• No barriers = discoverability• New audiences						
Rigour	<ul style="list-style-type: none">• Trust it• Open = transparency• Quality peer-review						
Relevance	<ul style="list-style-type: none">• Use it• Higher usage = research imp.• Citations and collaboration						

“Pay-to-read” model



“Pay-to-publish” model

INTERACTIVE DATA VISUALIZATION AND MULTIMEDIA INTEGRATION

The screenshot displays the JACC Journals website interface. At the top left is the JACC JOURNALS logo. To its right is a navigation menu with items: Journals, Topics, Guidelines, Author Center, CME/MOC, Events, JACC Patient Care Pathways, and Global Burden of CVD. A red arrow points to the 'Global Burden of CVD' menu item. Above the navigation is a search bar with the text 'All Journals' and 'Enter Search Terms', and a search icon. To the right of the search bar are links for 'ACC.org', a shopping cart icon, 'Register', and 'Sign In'. The main content area features a dark blue background with a globe. The text on the page reads: '1. TOTAL CVD MORTALITY RATES BY REGION (age-standardized mortality rates per 100,000 in 2021)'. Below this, a teal instruction says: 'Rotate the globe to hover over one of the 21 regions to see the overall CVD mortality rate in that region'. The globe shows the outlines of continents and is set against a dark blue background with a grid of latitude and longitude lines.

INTERACTIVE DATA VISUALIZATION AND MULTIMEDIA INTEGRATION



All Journals ACC.org Register Sign In

- Journals
- Topics
- Guidelines
- Author Center
- CME/MOC
- Events
- JACC Patient Care Pathways
- Global Burden of CVD

1. TOTAL CVD MORTALITY RATES BY REGION

(age-standardized mortality rates per 100,000 in 2021)

Rotate the globe to hover over one of the 21 regions to see the overall CVD mortality rate in that region

High-income North America

CVD Mortality Rate: 145.39

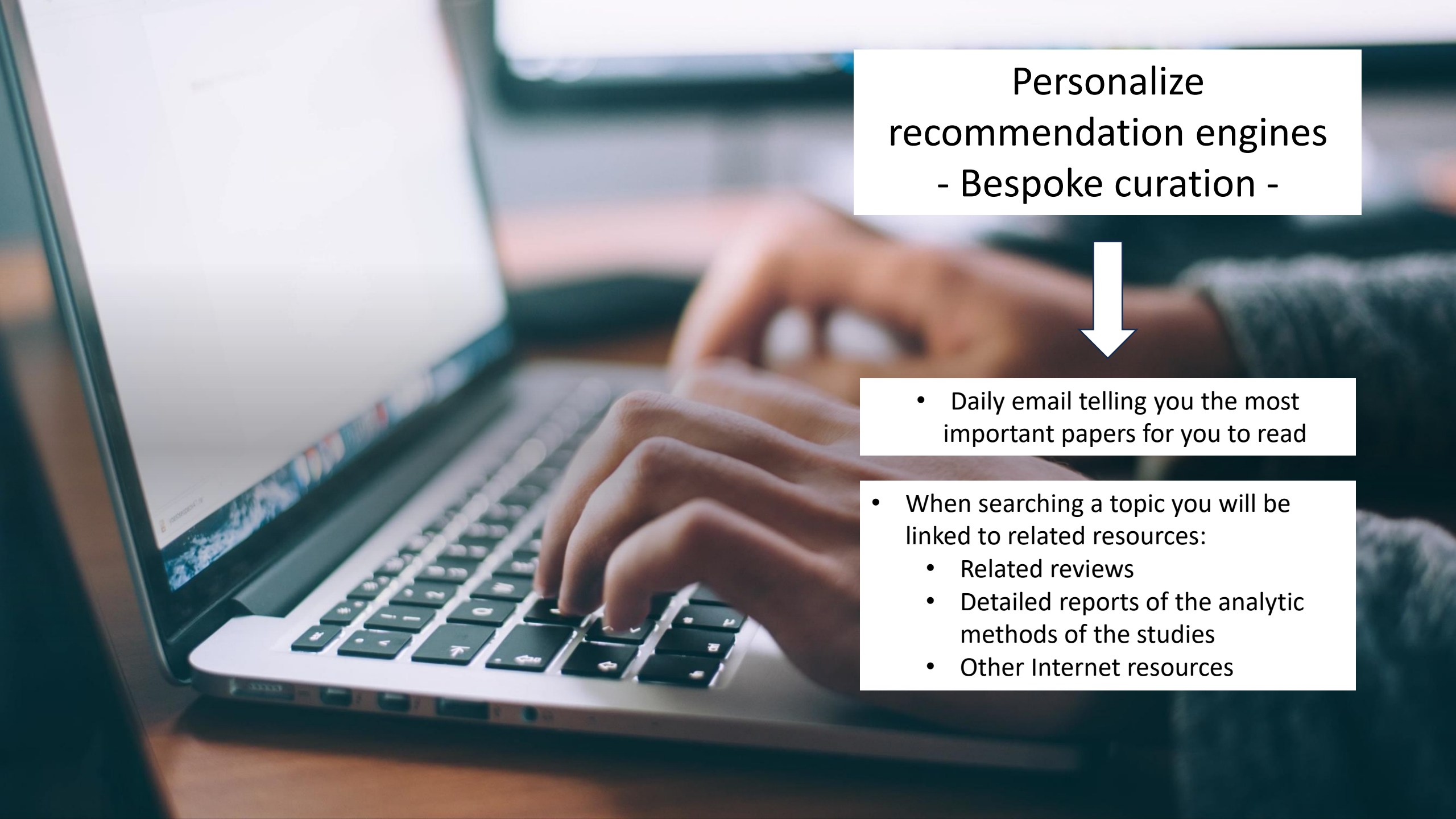
(129.68 - 153.69)*

Future Journals: Personalization and Reader Engagement



Platforms that use machine learning algorithms to provide personalized content recommendations based on a reader's interests, previous searches, and reading history





Personalize
recommendation engines
- Bespoke curation -



- Daily email telling you the most important papers for you to read
- When searching a topic you will be linked to related resources:
 - Related reviews
 - Detailed reports of the analytic methods of the studies
 - Other Internet resources

“Tools are emerging to facilitate this ‘share early, share often’ approach.”

SHARING DATA AND CODE: RESEARCH DATA REPOSITORIES



“They challenge the traditional article format by including blog posts,
interactive graphics and video.

Priem Nature 2023



FUTURE: ENHANCED NETWORKING FEATURES

Journals will incorporate enhanced networking features, allowing authors, reviewers, and readers to connect within the platform



CAUTIONARY TALES



LARGE LANGUAGE MODELS

JACC Journals' Pathway Forward With AI Tools

The Future Is Now



- If nonhuman AI models are used to generate content in the manuscript, the authors must disclose this information in the cover letter to the editor and include the following statement *“The authors take full responsibility for the data integrity and the authenticity of all the content that was generated by artificial intelligence and machine learning models.”*
- Authors must report the use of nonhuman AI models to create or assist in content in the Methods section and/or the Acknowledgment section of the submitted paper

AI-ENABLED IMAGE FRAUD IN SCIENTIFIC PUBLICATIONS

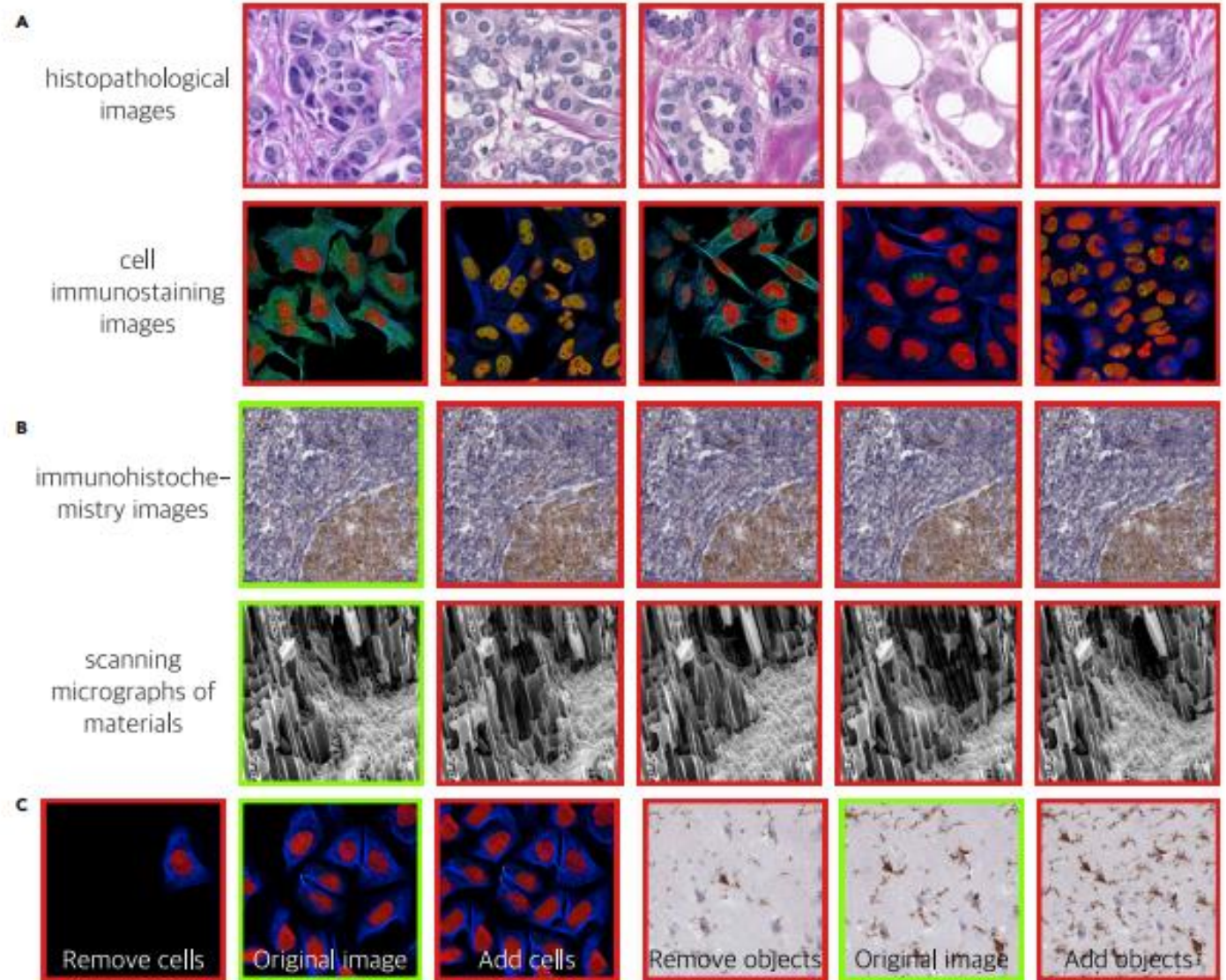


Figure 1. Scientific image fraud by intelligent models

We show several fake images generated by generative models. The images with the red border are all computer generated, while the images with the green border are real ones.

A close-up, shallow depth-of-field photograph of a judge in a courtroom. The judge, wearing a black robe and white gloves, is shown from the chest up, holding a wooden gavel over a wooden sound block on a desk. The background is blurred, showing other people in the courtroom. The text 'JOURNALS OF THE FUTURE AND THE IMPACT FACTOR' is overlaid on the right side of the image.

JOURNALS
OF THE
FUTURE AND
THE IMPACT
FACTOR



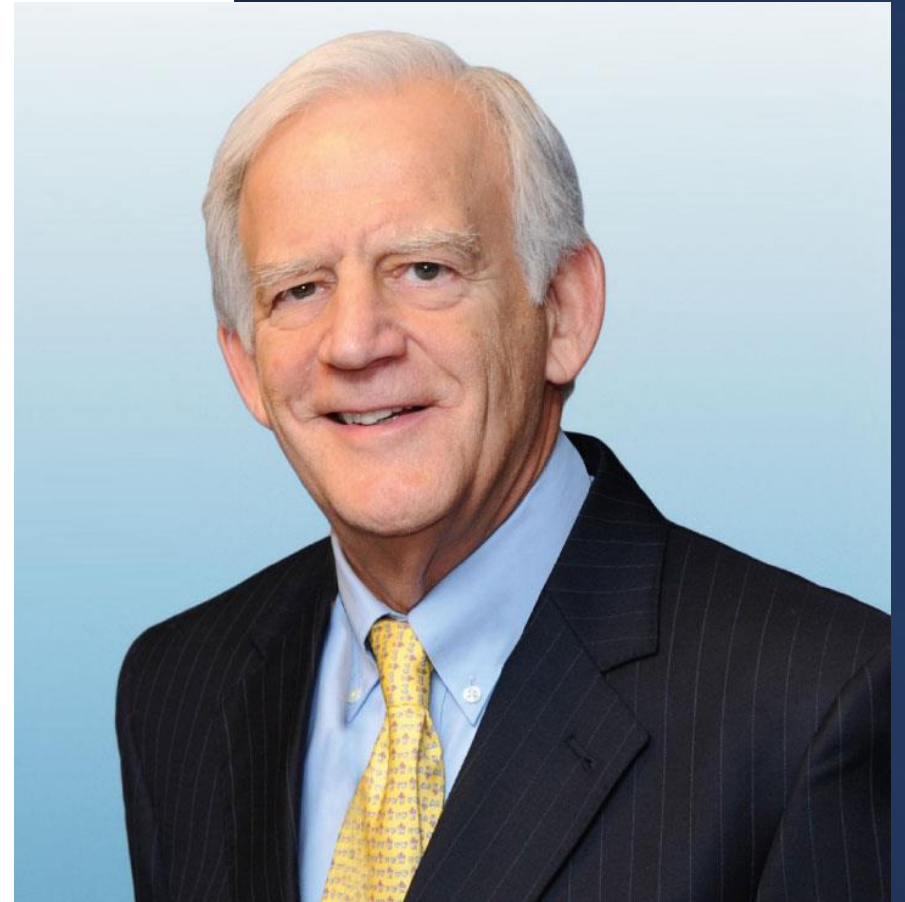
IMPACT FACTOR

- Main metric use to assess the impact of a medical journal
- Invented by a librarian
- Originally invented as a tool to help university librarians decide which journals to purchase
- Number of cited articles over a 2-year period
- Criticisms of its statistical validity and its implications of how science is assessed

IMPACT FACTOR 2022: ELSEVIER JOURNALS

Source	Journal Impact Factor 2022	Journal IF rank 2022
JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY	24	4
JACC: Cardiovascular Imaging	14	8
JACC: Heart Failure	13	9
JACC: Cardiovascular Interventions	11.3	10
JACC: Clinical Electrophysiology	7	25
OTHERS		
Chest	9.6	5
The Journal of Heart and Lung Transplantation	8.9	19
Journal of the American Society of Echocardiography	6.5	27
Journal of Thoracic and Cardiovascular Surgery	6	33
Heart Rhythm	5.5	38
The Annals of Thoracic Surgery	4.6	47

“It is very possible that Altmetrics, or some similar metric, will displace the Impact Factor and become the “ejection fraction” of medical journals in the future.”



DeMaria JACC
Case Reports 2016

CONCLUSIONS



Publishing in 2024

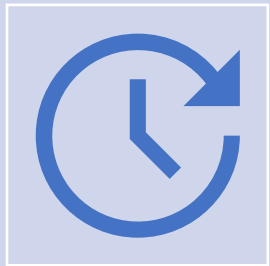
Carefully design and conduct your studies

Understand the editorial process

Don't be discouraged

Use social media to disseminate your work

CONCLUSIONS



Medical journals of the future

More open access

More predatory journals

AI use will improve the
researcher and reader
experience

Role of LLM is evolving

Medical journals of the
future remain to be defined

RESOURCES

- Learn about JACC: Advances and the JACC journals [JACC Journals | ScienceDirect.com by Elsevier](#)
- Learn more about publishing in the JACC Family of journal:
<https://www.jacc.org/author-center/how-to-publish>



Request access to
JACC Journals



JACC[®]
Advances

POPULAR RESEARCH TOPICS IN JACC JOURNALS: INDICATOR OF THE LATEST DEVELOPMENTS IN CARDIOLOGY

Research Topics covered by JACC Journals
 Entity: All JACC Journals · Year range: 2018 to 2022 · Data source: Scopus, up to 10 Jan 2024

Topic	At this Research Area			Worldwide
	Scholarly Output	Publication Share	Field-Weighted Citation Impact	Prominence percentile
Transcatheter Aortic Valve Implantation; Heart Valve Prosthesis; Aortic Stenosis T.32	882	11.57% ▼	2.11	99.618
Mitral Valve Regurgitation; Leaflet; Tricuspid Valve Disease T.867	317	11.75% ▲	2.10	98.216
Ejection; Heart Failure; Mineralocorticoid Antagonist T.5354	255	8.72% ▼	3.30	99.632
Coronary Artery Obstruction; Reserves; Percutaneous Coronary Intervention T.5537	217	13.40% ▼	1.71	97.488
Atrial Fibrillation; Transesophageal Echocardiography; Amulet T.3997	196	10.19% ▼	1.82	97.671
Pulmonary Veins; Catheter Ablation; Atrial Fibrillation T.10	196	5.81% ▼	1.28	98.555
Outcome; Mitral Valve; Bioprosthesis T.10257	196	15.01% ▲	3.27	97.263
Anthracyclines; Cardiotoxicity; Doxorubicin T.430	165	5.23% ▼	2.48	99.340

Courtesy of Corina Negru (ELSEVIER)



It does not matter how many times
you get knocked down, but how
many times you get up.

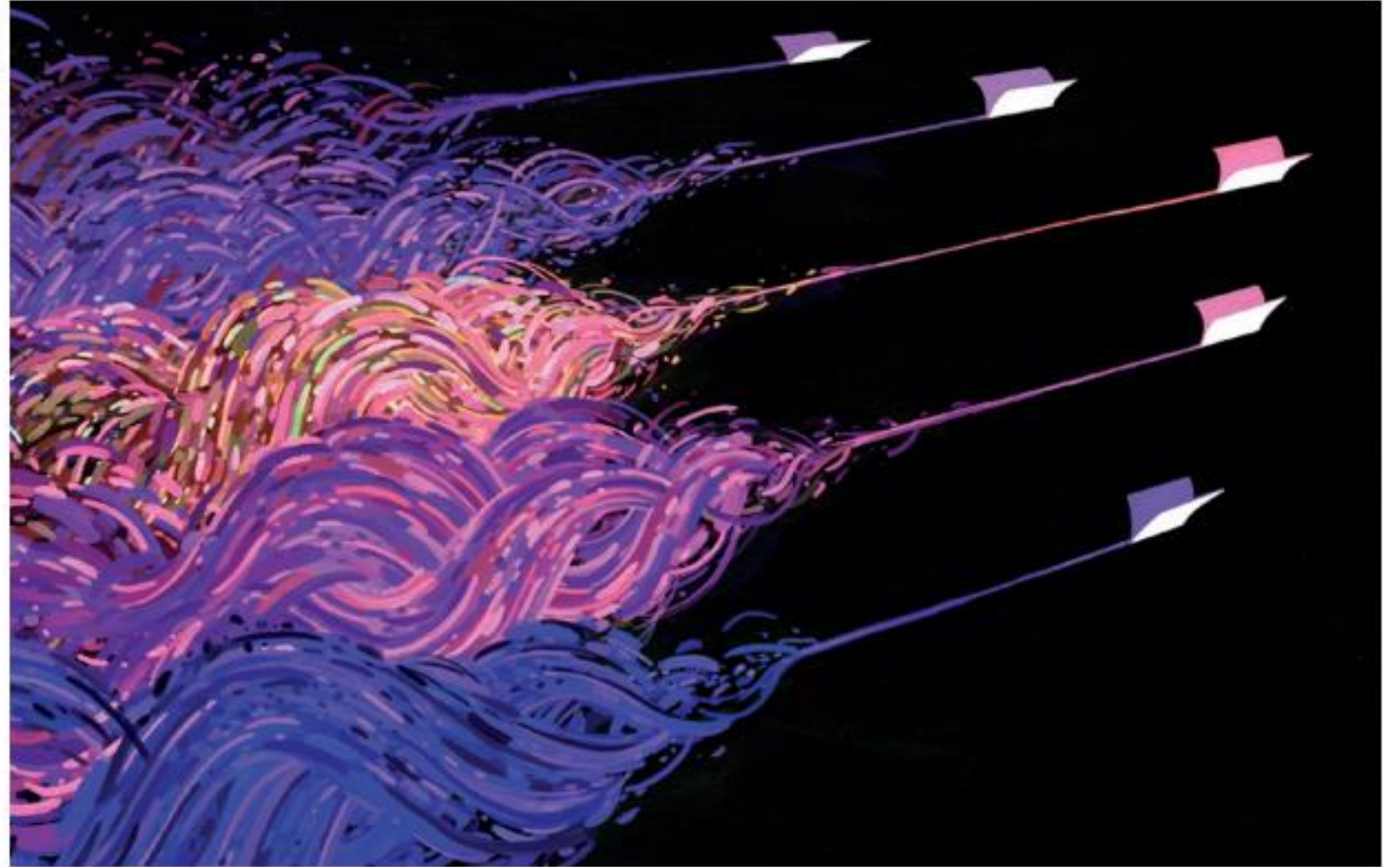
— *Vince Lombardi* —

AZ QUOTES

Priem Nature 2023

“Editors and reviewers...will be replaced by the aggregated, collective judgement of communities themselves.”

BRENDAN MONROE



Beyond the paper

The journal and article are being superseded by algorithms that filter, rate and disseminate scholarship as it happens, argues **Jason Priem**.

OPEN ACCESS



Reach

- **Find it**
- No barriers = discoverability
- New audiences

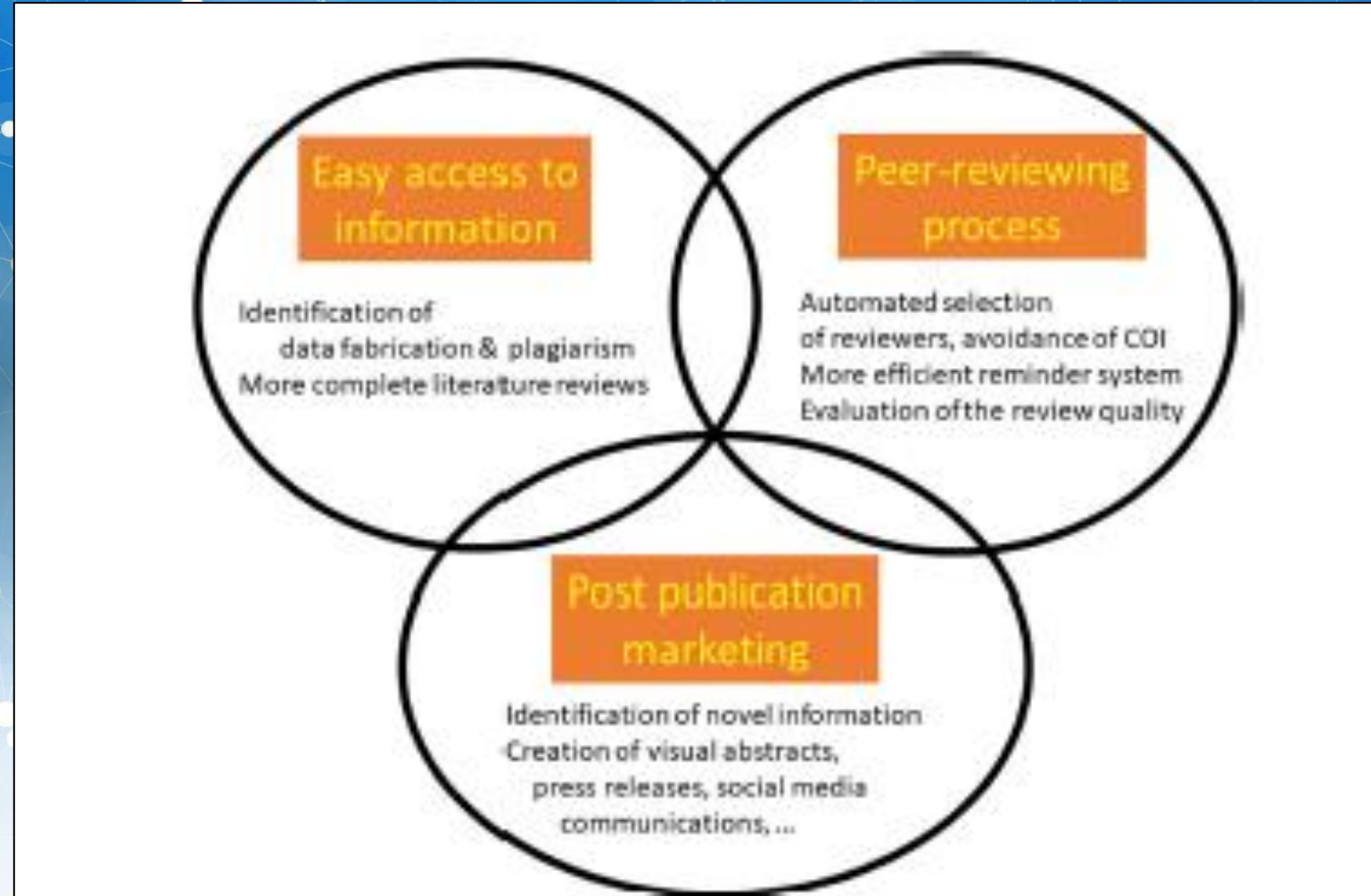
Rigour

- **Trust it**
- Open = transparency
- Quality peer-review

Relevance

- **Use it**
- Higher usage = research impact
- Citations and collaboration


ARTIFICIAL INTELLIGENCE IN THE PEER REVIEW PROCESS



DECISION LETTERS AND WHAT THEY MEAN

DECISIONS	WHAT THEY MEAN
Reject without review	Not suitable for journal
Transfer to a sister journal	More suitable for another journal
Reject after review	Not acceptable

INTERPRETING YOUR RESULTS

 Reporting guidelines for main study types		
Randomised trials	CONSORT	Extensions
Observational studies	STROBE	Extensions
Systematic reviews	PRISMA	Extensions
Study protocols	SPIRIT	PRISMA-P
Diagnostic/prognostic studies	STARD	TRIPOD
Case reports	CARE	Extensions
Clinical practice guidelines	AGREE	RIGHT
Qualitative research	SRQR	COREQ
Animal pre-clinical studies	ARRIVE	
Quality improvement studies	SQUIRE	Extensions
Economic evaluations	CHEERS	

Provide standards on design, analysis, and interpretation of the results

Limitations	Trial limitations, addressing sources of potential bias, imprecision, and, if relevant, multiplicity of analyses
Generalisability	Generalizability (external validity, applicability) of the trial findings
Interpretation	Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence

GLOBAL APPROACH TO RESEARCH IN JACC JOURNALS

Publications with Highest FWCI

Entity: All JACC Journals · Year range: 2018 to 2022 · Data source: Scopus, up to 10 Jan 2024

Publication	Citations	Field-Weighted Citation Impact
The Global Burden of Cardiovascular Diseases and Risk: A Compass for Future Health. Vaduganathan, M., Mensah, G.A., Turco, J.V. and 2 more (2022) Journal of the American College of Cardiology, 80 (25), pp. 2361-2371.	190	242.87

A Field Weighted Citation Impact (FWCI) of 1 means that the output performs as expected for the global average; an FWCI of 1.44 means 44% more cited than expected

Courtesy of Corina Negru (ELSEVIER)

DECISION LETTERS AND WHAT THEY MEAN

DECISIONS	WHAT THEY MEAN
Reject without review	Not suitable for journal
Transfer to a sister journal	More suitable for another journal
Reject after review	Not acceptable
Major or minor revisions	Editors are seriously considering the manuscript



High impact journal families published by Elsevier

Corina Negru



Reading high quality interdisciplinary research increases the quality of your publications and leads to innovation



Feedback from our readers:

- “Access to impactful peer reviewed publications, from a variety of specialities enhances my **teaching, research and clinical activity.**”
- “**Fostering innovation** requires knowledge from multiple related disciplines.”
- “Reading high quality interdisciplinary research allows me to **stay abreast** of my field and interrelated specialties.”

Elsevier high impact journal families

THE LANCET

- 24 premium journals in *Clinical Medicine Research*
- Most read and cited content on ScienceDirect
- 99M full text article downloads annually



- 56 high impact journals in *Life, Physical and Health Sciences*
- 156 articles downloads every minute
- 32 citations per publication



- 87 peer-reviewed journals in *Clinical Medicine*
- Multi-disciplinary content across 21 Health Science domains
- 82M full text article downloads annually



High impact journals spanning many specialties



Independent • International • Influential

The Lancet began as an independent, international weekly general medical journal founded in 1823 by Thomas Wakley. Since its first issue (October 5, 1823), the journal has strived to make science widely available so that medicine can serve, and transform society, and positively impact the lives of people.

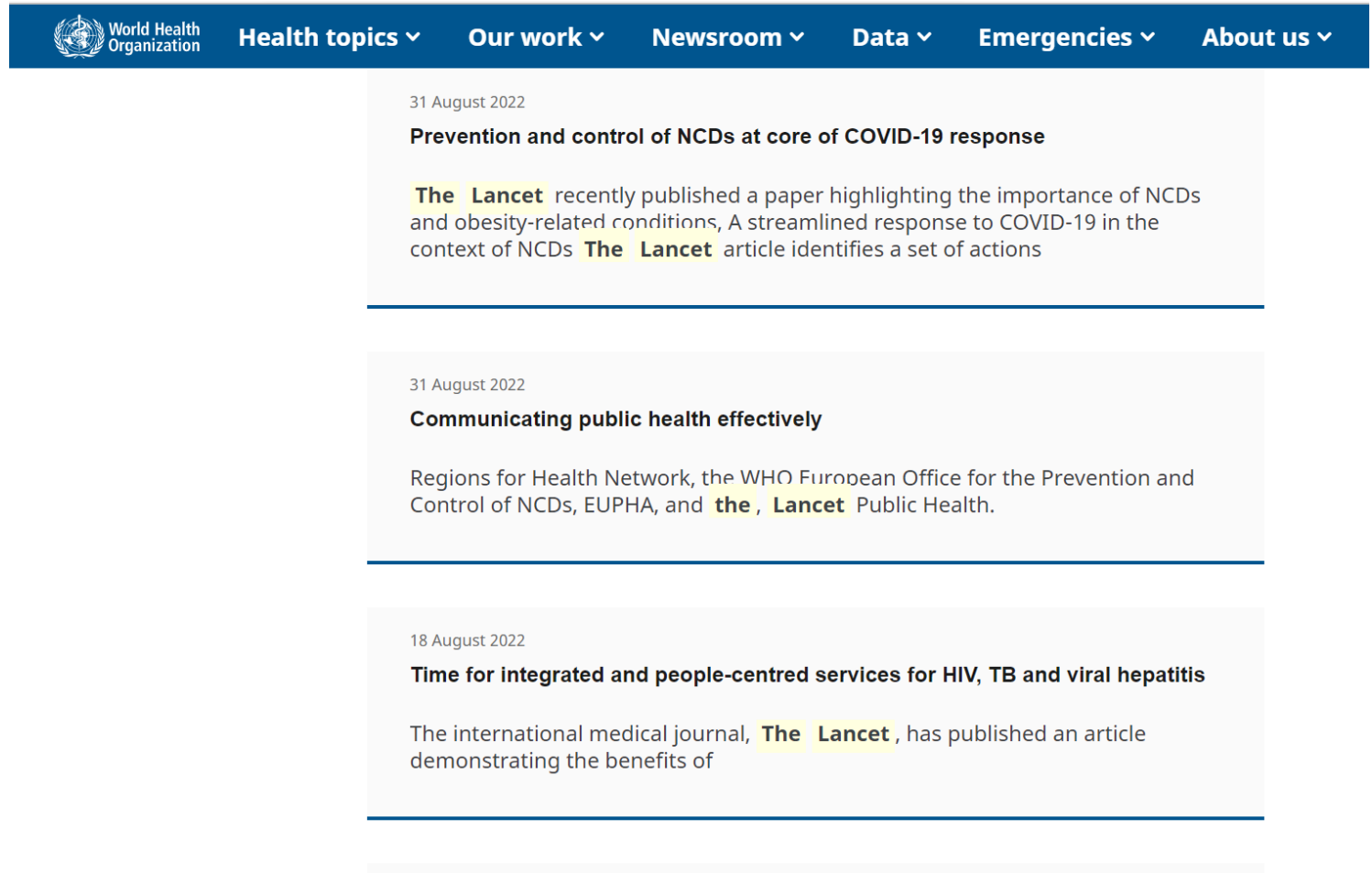
World Health Organization uses research and innovation published in the *Lancet* journals for evidence-based policy

Readers' feedback:

*"Lancet helps me formulate **policy** positions, based on medical evidence and opinion pieces."*

*"Lancet covers just about **every facet in medicine** with integrity, transparency and clarity. "*

*"The articles are of a high **validity and reliability**. All of them are peer reviewed."*



The screenshot shows a navigation bar for the World Health Organization website with the following menu items: Health topics, Our work, Newsroom, Data, Emergencies, and About us. Below the navigation bar, there are three article snippets, each starting with a date and a title. The first snippet is dated 31 August 2022 and titled "Prevention and control of NCDs at core of COVID-19 response". The second snippet is also dated 31 August 2022 and titled "Communicating public health effectively". The third snippet is dated 18 August 2022 and titled "Time for integrated and people-centred services for HIV, TB and viral hepatitis". Each snippet includes a short paragraph of text.

World Health Organization

Health topics ▾ Our work ▾ Newsroom ▾ Data ▾ Emergencies ▾ About us ▾

31 August 2022

Prevention and control of NCDs at core of COVID-19 response

The **Lancet** recently published a paper highlighting the importance of NCDs and obesity-related conditions. A streamlined response to COVID-19 in the context of NCDs. The **Lancet** article identifies a set of actions

31 August 2022

Communicating public health effectively

Regions for Health Network, the WHO European Office for the Prevention and Control of NCDs, EUPHA, and the **Lancet** Public Health.

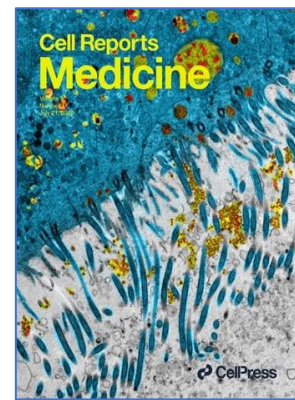
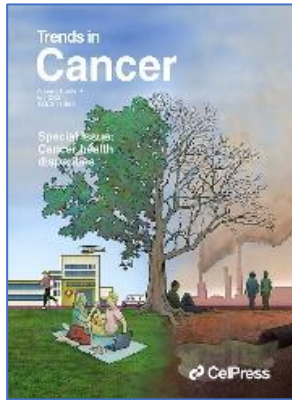
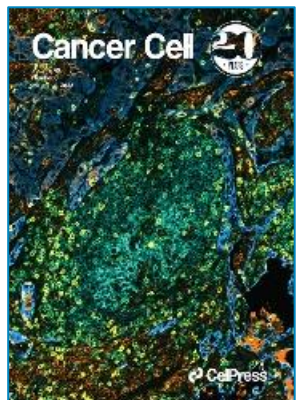
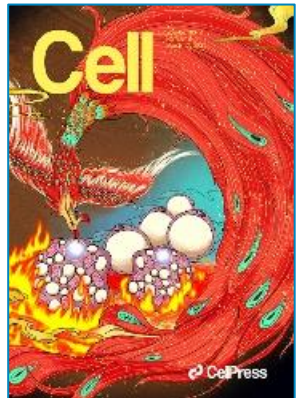
18 August 2022

Time for integrated and people-centred services for HIV, TB and viral hepatitis

The international medical journal, **The Lancet**, has published an article demonstrating the benefits of

THE LANCET

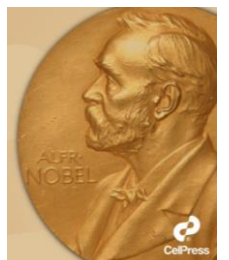
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Nobel Prize in Physiology or Medicine 2023:
Katalin Karikó and Drew Weissman

Discoveries concerning nucleoside base modifications that enabled the development of effective mRNA vaccines against COVID-19.

Both Dr. Katalin Karikó and Dr. Drew Weissman have authored articles in Cell Press hybrid titles as well. Their 2005 *Immunity* article was cited in the award alongside a key article from *Molecular Therapy*.



Recent Cell Press launches in medical sciences

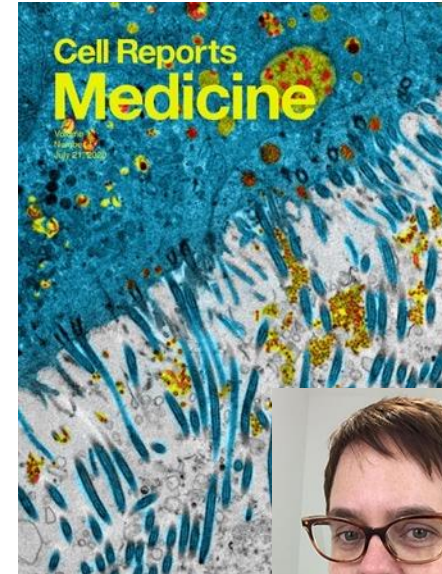


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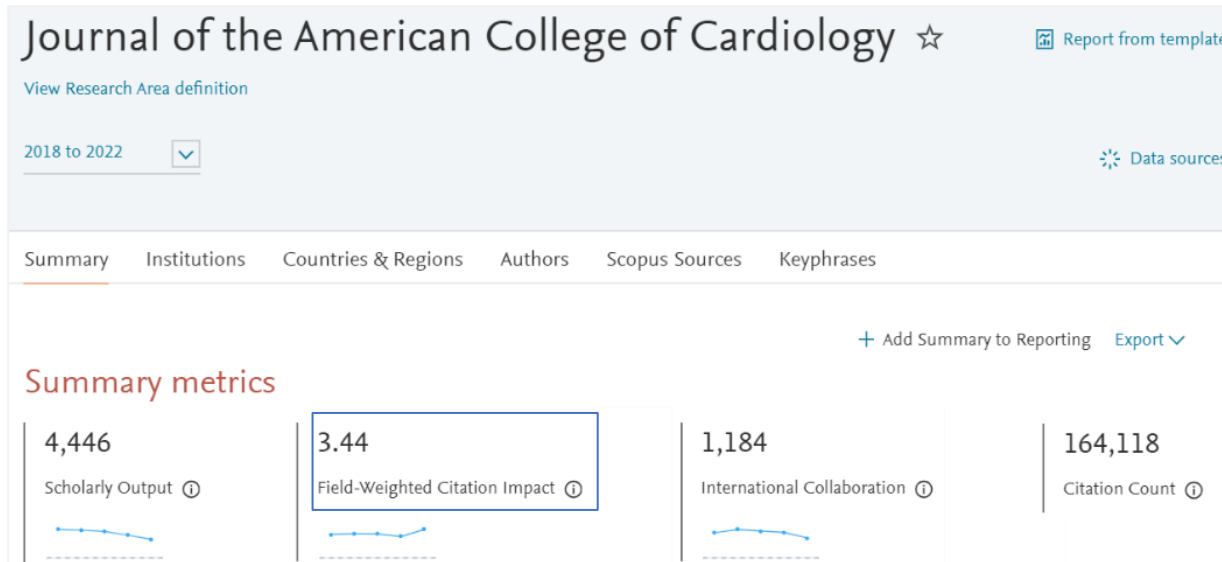
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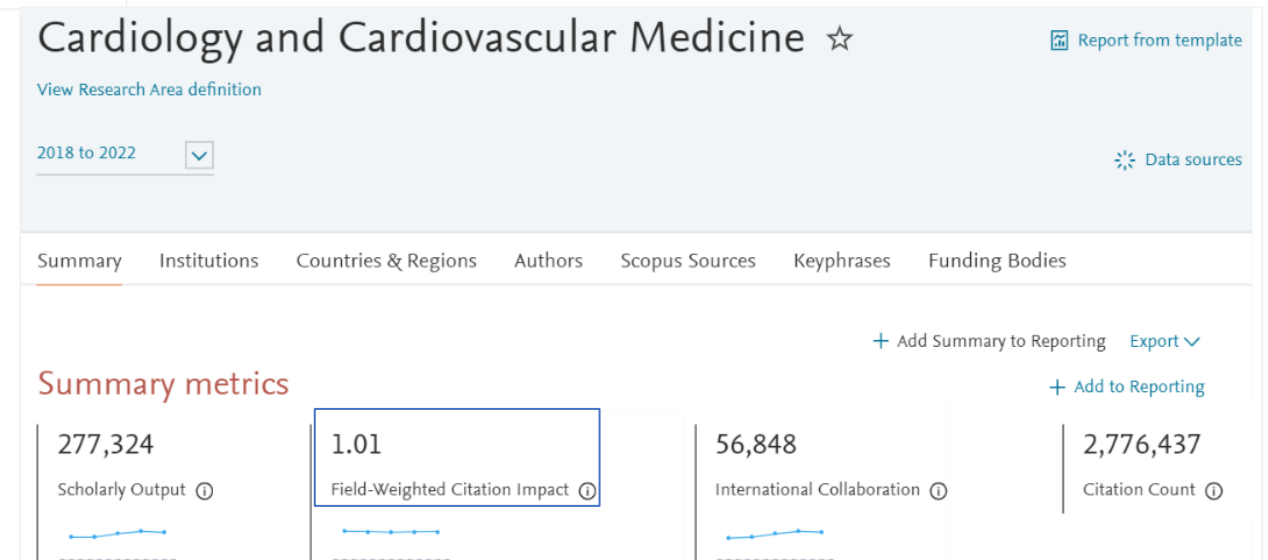
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