



How to improve our research impact?

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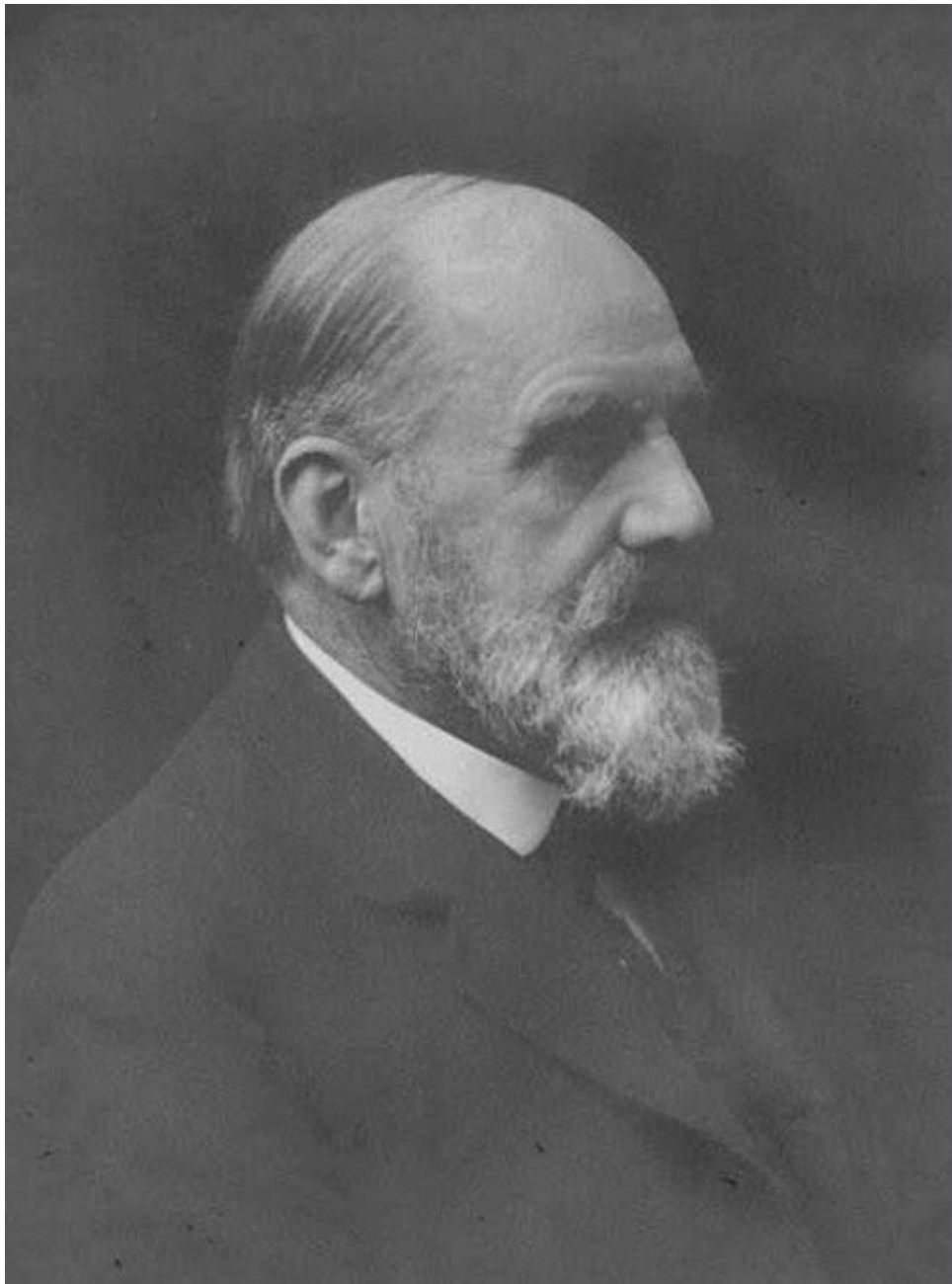
Tehran University of Medical Sciences

چگونه یک پژوهش اثربخش

داشته باشیم؟

چگونه اثربخشی پژوهش خود را

افزایش دهیم؟



“ In science, the credit goes to the man who convinces the world, not to whom the idea first occurs.

- Francis Darwin -

#WednesdayWisdom



Today's Outline

- In this session, we will talk about:
 1. What is **Research Impact**?
 2. How is **Research Impact** measured?
 3. What are the **resources** for **assessing** impact?
 4. How to **improve** our research impact?
 5. How can I **demonstrate** my research Impact?

پژوهش پاسخگو، نافع، کاربردی، هدفمند، مساله، محصول محور



ورود به سایت پژوهشکده آینده پژوهی در سلامت

Publish or Perish!





Substitute of old “**Publish or Perish**”!

Getting Found, Staying Found & Increasing Impact

Science Circle

- The circle of science from **origination** to **usage** consist of many steps as follows:
 - 1- Doing **Research**
 - 2- Research **Publication** (Paper)
 - 3- Knowledge **Dissemination**
 - 4- Knowledge **Utilization & Application**



Is my research
making an
impact?

What is **Impact**?

- The Oxford dictionary defines impact as “A **Marked Effect or Influence.**”
- So, **Research Impact** means that **our research has affected or influenced something or someone.**
- This arouse the following questions:
 - **Whom** has it impacted, who is the **target audience**?
 - **How** has it made an impact, what was its **ultimate goal**?
 - Through what **means** has this impact occurred, i.e., what are the **primary outlets**?
 - How do we know this impact has **occurred**, i.e., how can we **measure** it?

How Research Impact **Differs** By **Academic Role**?

Academic Role	<i>Whom?</i> Target Audience	<i>How?</i> Ultimate Goal	Through Which <i>Means?</i> Primary Outlets	How Do We <i>Know?</i> Measures
Research	Other academics	Progress scientific knowledge	Academic journals, Research Monographs, Conferences	Citations in academic journals / books / conference papers
Teaching	Students	Develop critical thinking skills	Textbooks, Practitioner journals	Citations in textbooks / syllabi
External Engagement	Industry, Government, Public and society	Address societal problems	Practitioner journals / magazines, Policy reports, (Social) Media, Collaborative	Citations in policy documents, policy / legal changes, improved HDI/SDG*

*HDI = United Nations Human Development Index ; SDG = United Nations Sustainable Development

What is Research Impact?

- It is all the **diverse** ways that research benefits **individuals**, **organizations** and **nations** through increasing **effectiveness of public services and policy**, improving **quality of life and health**, or **economic benefits**.
- It may translate as **benefit**, **payback**, **translation**, **transfer**, **uptake** and **utilization**.
- The “**Academic Impact**”, considered to be the research knowledge contribution to a field of study within academia, should be distinguished from “**Non-academic Impact**”, which goes **beyond academia**.

What is Research Impact?

- **Research impact** is defined as how broadly scholarly research is being **read**, **discussed**, and **used** both **inside** and **outside** of the **academy**.

What is Research Impact?

- Research impact is the **contribution** that **research** makes to the **economy, society, environment** or **culture, beyond** the contribution to academic research.

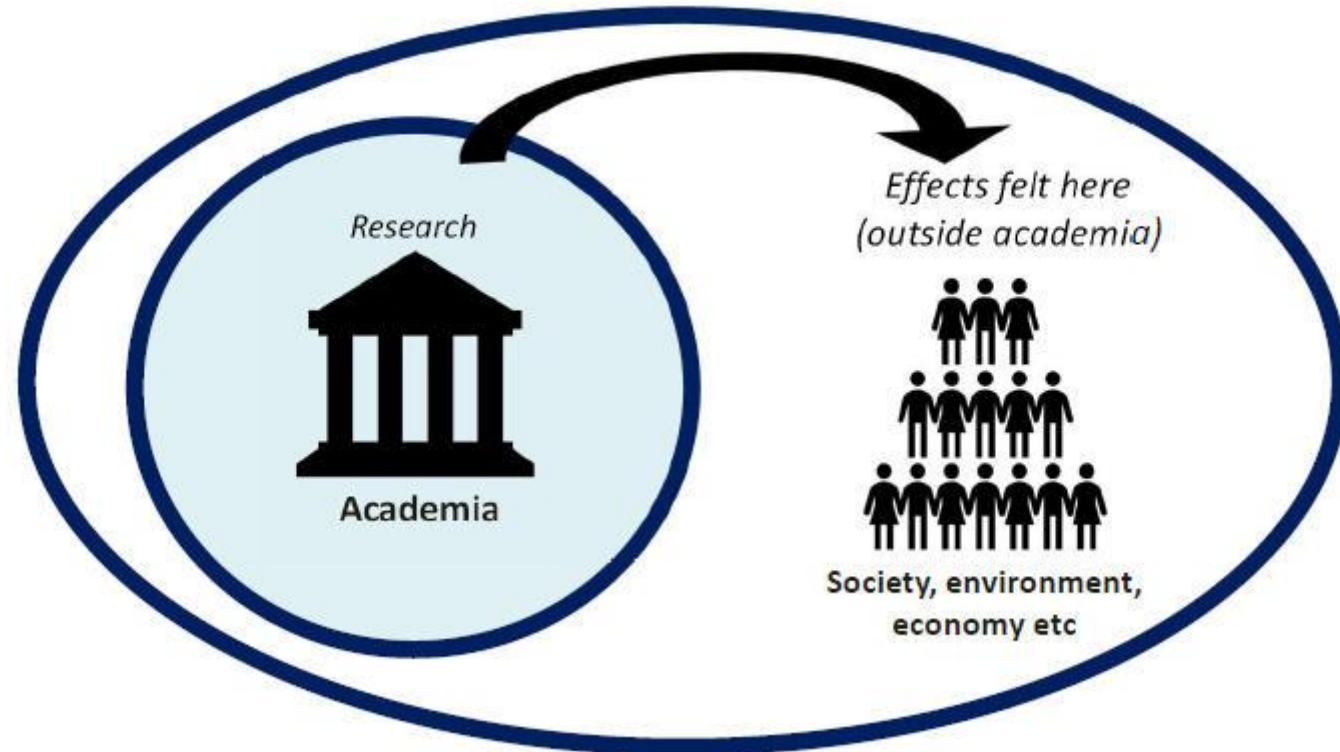
(Australian Research Council)

What is Research 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.

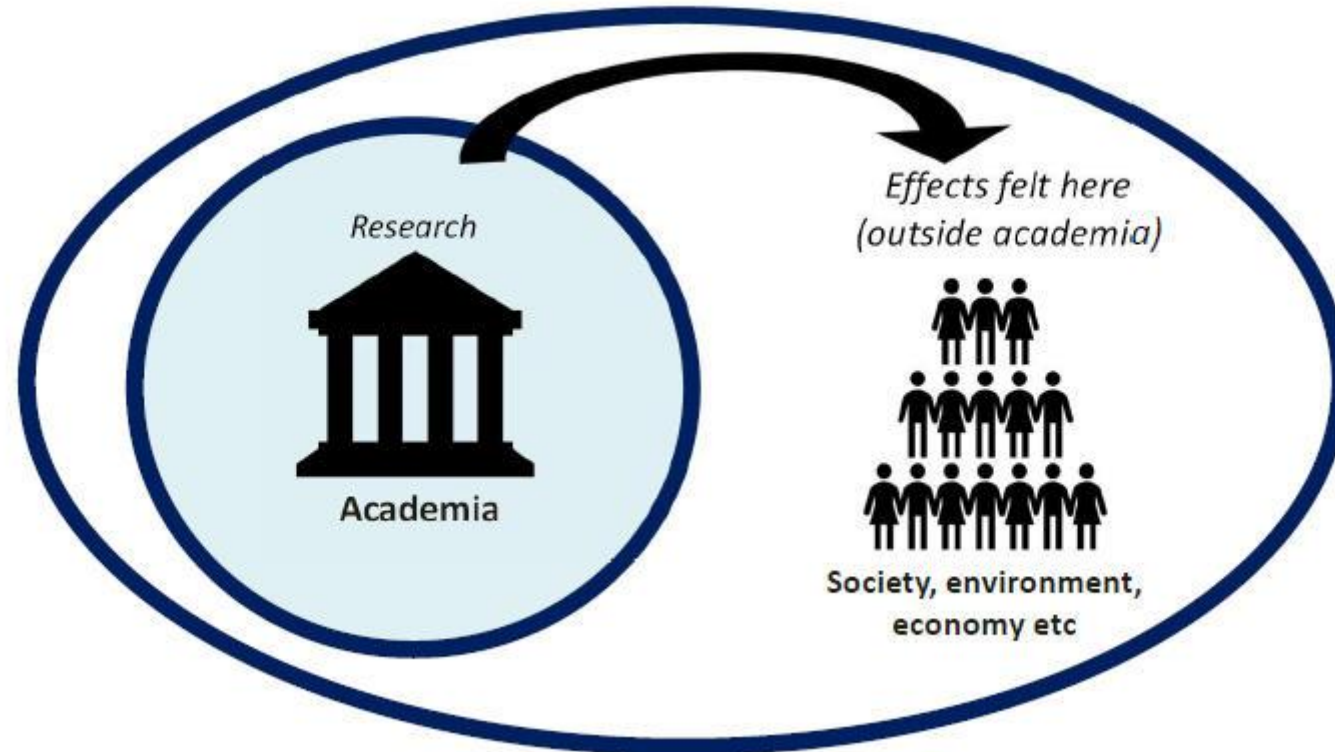
What is **Research Impact**?

- Any Real Effect of Research in Real World is called impact.



What is **Research Impact**?

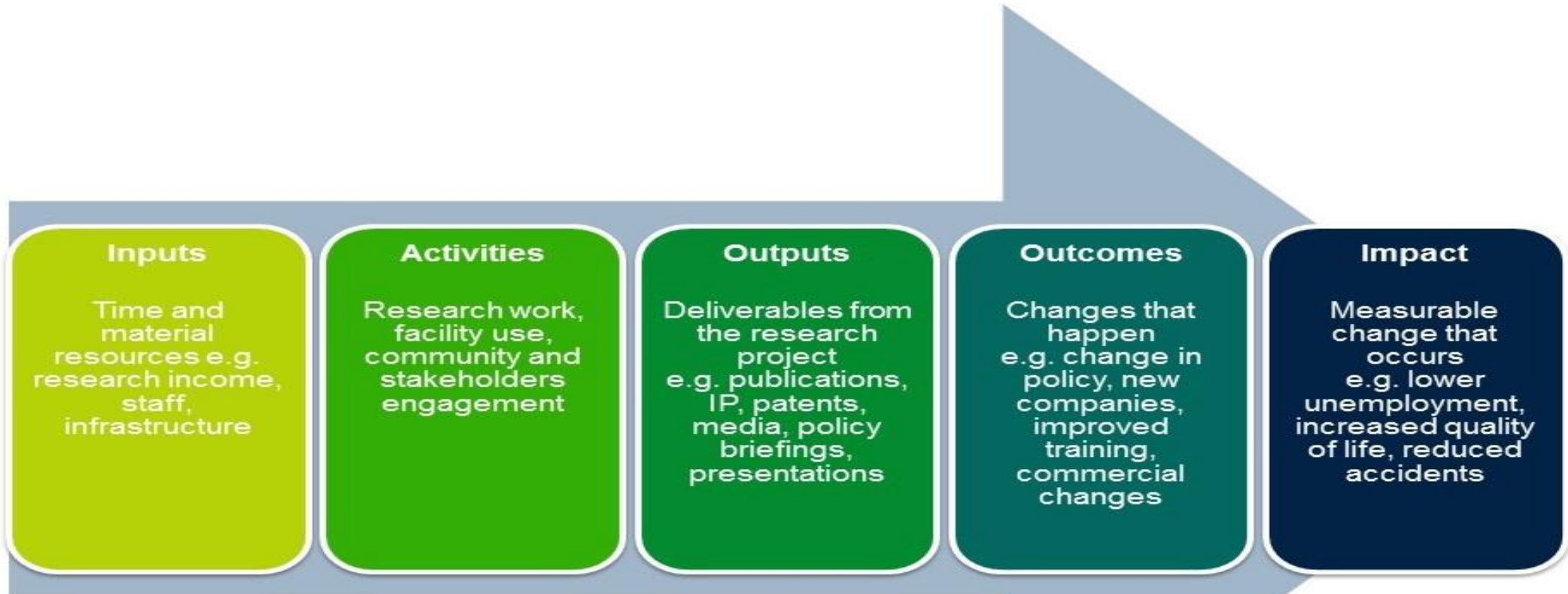
- Any provable **Effect** (**Benefits**) of Research in Real World is called impact.



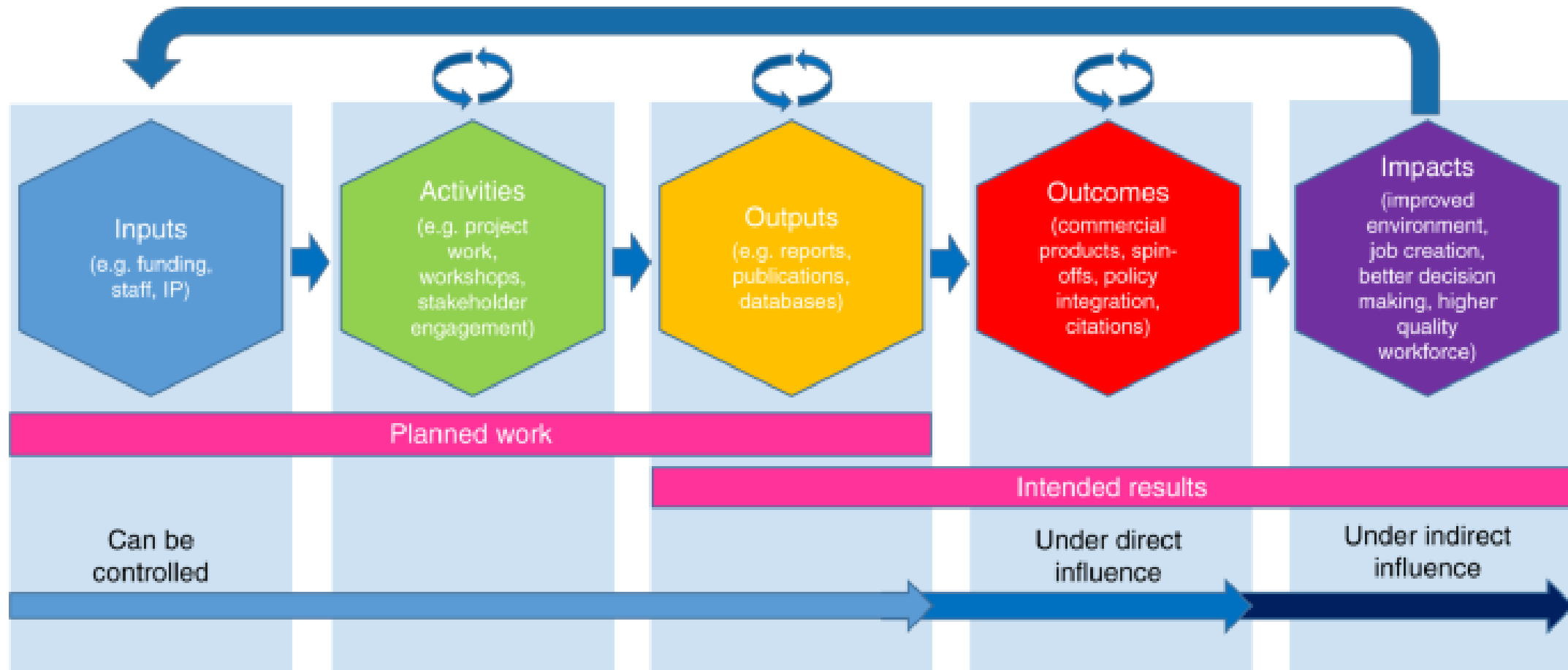
Research Impact Application

- Research impact is taken into account when **research groups** are being **evaluated** formally, but also when your own your **academic** work or **career** is being **evaluated** for **funding, promotion** or **appointments**.
- Researchers use **different strategies** to improve their potential research impact in all phases of the publishing process.

Pathways to **Research Impact** and **Engagement**



Research Impact Assessment



A Real Case of Research Impact!

HORMONE
RESEARCH

Original Paper

Horm Res 2004;62:79–83
DOI: [10.1159/000079392](https://doi.org/10.1159/000079392)

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Prevalence of Congenital Hypothyroidism in Isfahan, Iran: Results of a Survey on 20,000 Neonates

Mahin Hashemipour^{a,b} Massoud Amini^{a,b} Ramin Iranpour^b
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A Real Case of Research Impact!

> [Horm Res. 2004;62\(2\):79-83. doi: 10.1159/000079392. Epub 2004 Jun 24.](#)

Prevalence of congenital hypothyroidism in Isfahan, Iran: results of a survey on 20,000 neonates

Mahin Hashemipour ¹, Massoud Amini, Ramin Iranpour, Gholam Hossein Sadri, Narges Javaheri, Sassan Haghighi, Silva Hovsepian, Abbas Ali Javadi, Mahdi Nematbakhsh, Goshtasb Sattari

Affiliations + expand

MID: 15237248 DOI: [10.1159/000079392](#)

Abstract

Aims: To evaluate the prevalence of congenital hypothyroidism (CH) in a screening program performed for the first time in Isfahan, Iran.

Methods: From May 2002 to December 2002, T4 and TSH serum concentrations of 20,000 3- to 7-day-old newborns, born in all 17 hospitals of the city, were measured by radioimmunoassay and immunoradiometric assay, respectively. The newborns with abnormal screening results (TSH >20 mIU/l, T4 <6.5 microg/dl and based on the weight) were re-examined.

Results: Of 531 recalled subjects (recall rate 2.6%), 54 were confirmed to be hypothyroid, showing a prevalence of 1:370 for CH.

Conclusion: Considering the high frequency of CH, the necessity of implementing a routine screening program in the healthcare system of Isfahan Province is emphasized.



به نام خالق هستی



غربالگری کشوری نوزادان
وزارت بهداشت، درمان آموزش پزشکی

برنامه کشوری غربالگری بیماری کم کاری تیروئید نوزادان

دستورالعمل ویژه کارشناس

نویسندگان:

دکتر شهین یاراحمدی

دکتر نسرين آژنگ

زیر نظر:

دکتر علیرضا مصداقی‌نیا

دکتر کورش اعتماد

دکتر سید محمد علوی‌نیا

تاریخچه و طراحی برنامه کشوری غربالگری بیماری کم کاری تیروئید نوزادان در ایران

با توجه به گذار اپیدمیولوژیک از شیوع و بروز بالای بیماری‌های واگیر به غیرواگیر در سال‌های اخیر، مداخله در هر سه سطح پیشگیری (اولیه، ثانویه و ثالثیه) در مدیریت بیماری‌های غیرواگیر جزو اولویت‌های بهداشتی کشور قرار گرفته است.

در دهه ۶۰ و قبل از اجرای برنامه غنی سازی نمک با ید، دکتر عزیزی و همکاران‌شان اقدام به غربالگری نوزادان برای بیماری کم کاری تیروئید کردند. اما به علت کمبود ید میزان فراخوان بسیار بالا بود، لذا این اقدام پس از مدتی متوقف گردید.

مطالعاتی در ارتباط با میزان بروز بیماری کم کاری تیروئید در دانشگاه‌های علوم پزشکی مختلف (دکتر عزیزی و همکاران - دانشگاه شهید بهشتی، دکتر کرمی‌زاده و همکاران - دانشگاه فارس و دکتر هاشمی‌پور و همکاران - دانشگاه اصفهان) انجام شد.

نتایج حاصل از کلیه این مطالعات نشان داد که بروز بیماری کم کاری تیروئید در نوزادان کشور بسیار بالاست. با توجه به پژوهش‌های انجام شده در اصفهان، تهران و شیراز، بروز کم کاری تیروئید در کشور ۱ بیمار در هر ۱۰۰۰ نوزاد زنده متولد شده

تخمین زده شد.

OUTCOME

به نام پروردگار هستی



غibal كرى كورى نوزادان

وزارت بهداشت، درمان و آموزش پزشکی

برنامه كورى

غربالگری بیماری کم کاری تیروئید نوزادان

دستورالعمل ویژه بهورز و مراقب سلامت

نویسندگان

دکتر شهین یاراحمدی

دکتر نسرين آژنگ

بیماری کم کاری تیروئید نوزادان، وضعیتی از کمبود هورمون تیروئید قابل درمان است که در صورت عدم تشخیص به هنگام و یا درمان نامناسب، می تواند موجب بروز عقب ماندگی شدید و اختلال در رشد کودک شود. عدم تشخیص و درمان مناسب و به هنگام بیماری در مبتلایان، بار بیماری سنگینی را بر خانواده و جامعه وارد می کند. در حالی که در صورت تشخیص به هنگام، درمان ساده، آسان، ارزان و موثر است. با غربالگری نوزادان و شناسایی بیماران و درمان مناسب آنان، عوارض جدی بیماری اتفاق نیفتاده و با حفظ ضریب هوشی طبیعی در بیمار، فردی مولد و سالم به جامعه تحویل داده می شود.

ادغام برنامه كورى غربالگری نوزادان برای بیماری کم کاری تیروئید، در مهر ماه سال ۱۳۸۴، اجرای هم زمان آن در روستاها و شهرها، دستیابی به پوشش بیش از ۹۷٪ در کمترین زمان ممکن، شروع درمان در کلیه بیماران شناسایی شده، حفظ هوشی طبیعی در همه بیماران تحت درمان، دارا بودن هزینه به سود بیماری های مهم و قابل درمان برنامه را در دنیا بی نظیر کرده است.

One from each 370 in 12,000,000 makes more than 32,000 Recognized Case

IMPACT

تاکنون بیش از ۱۲ میلیون نوزاد غربالگری شده اند. بدون اجرای این برنامه عقب ماندگی در درجات مختلف در این بیماران غیر قابل اجتناب بود.

A Real Case of Research Impact!

شیوع بالای بیماری، عوارض جبران‌ناپذیر مغزی بیماری در صورت عدم تشخیص و درمان به‌موقع که تنها با غربالگری دوران نوزادی قابل‌پیشگیری است و از طرف دیگر مقرون‌به‌صرفه بودن اجرای برنامه در کشور مسئولین وزارت بهداشت درمان و آموزش پزشکی را بر آن داشت تا برنامه غربالگری را در سطح ملی به اجرا درآورند. لذا با استفاده از نتایج و تجارب به‌دست‌آمده طرح غربالگری کم‌کاری مادر زادی تیروئید در سطح کشور به‌عنوان یک برنامه ملی طراحی گردید و در سال 1382 در اولین برنامه کشوری به‌طور آزمایشی در استان‌های اصفهان، بوشهر و شهر شیراز اجرا شد و نهایتاً از سال 1384 این برنامه در سیستم سلامت کشور ادغام‌شده است. از زمان اجرای برنامه در سطح ملی تا آبان ماه سال جاری مجموعاً شش میلیون و هفتصد هزار نوزاد (49 درصد نوزاد دختر و 51 درصد نوزاد پسر) تحت غربالگری قرارگرفته که پانزده هزار نفر آزمودن غربالگری مثبت داشته و اقدامات تشخیصی و درمانی بر طبق دستورالعمل کمیته علمی کشوری برای آنان انجام‌شده است. این برنامه در مجموع حدود 95 درصد زایمان‌های شهری و روستایی را تحت پوشش قرار داده و میزان فراخوان برنامه 9/2 درصد است.



رییس اداره غدد و متابولیک وزارت بهداشت تشریح کرد

دستاوردهای ۱۸ ساله برنامه کشوری غربالگری کم کاری تیروئید نوزادان / غربالگری ۲۲ میلیون نوزاد ایرانی و غیرایرانی

رییس اداره غدد و متابولیک وزارت بهداشت، درمان و آموزش پزشکی دستاوردهای ۱۸ ساله برنامه کشوری غربالگری کم کاری تیروئید نوزادان را تشریح کرد.

به گزارش وبدا، دکتر شهین یار احمدی در نشست «دستاوردهای ۱۸ ساله اجرای برنامه کشوری غربالگری بیماری کم کاری تیروئید نوزادان در ایران» که در بیمارستان قلب شهید رجایی برگزار شد، گفت: برنامه کشوری غربالگری کم کاری تیروئید به عنوان زیرساخت غربالگری بقیه بیماری های مهم نوزادان از مهرماه ۱۳۸۴ در سیستم سلامت کشور ادغام شد.

وی افزود: طی این مدت، برنامه به اهداف کوتاه مدت، میان مدت و درازمدت خود دست یافته و به عنوان یکی از موفق ترین برنامه های ملی در حوزه سلامت کودکان شناخته شده است.



رییس اداره غدد و متابولیک وزارت بهداشت با بیان این که در مدت این ۱۸ سال بالغ بر ۲۲ میلیون نوزاد ایرانی و غیرایرانی مورد غربالگری قرار گرفته و بیش از ۶۴ هزار بیمار نیز شناسایی شده اند، بیان داشت: تمام بیماران شناسایی و درمان شده از بهره هوشی طبیعی برخوردارند و هیچ بیماری عقب مانده ذهنی نشده است که نشانگر اثربخشی برنامه بوده است.

یاراحمدی تصریح کرد: با اجرای برنامه کشوری بیماری کم کاری تیروئید نوزادان، هر ساله حداقل ۴۰۰۰ تا ۴۵۰۰ کودک از عقب ماندگی ذهنی نجات می یابند.

وی خاطرنشان کرد: در تمام روستاها و شهرهای کشور نوزادان از دریافت خدمت برخوردارند و پوشش برنامه در هیچ زمانی حتی در همه گیری کرونا دچار وقفه نشد. علاوه بر نوزادان ایرانی، نوزادان غیرایرانی نیز غربالگری شده و در صورت بیمار بودن تحت مراقبت قرار می گیرند.

رئیس اداره غدد و متابولیک وزارت بهداشت با بیان این که کم کاری تیروئید در ۴.۳ نوزاد ایرانی از هر ۱۰۰۰ تولد وجود داشته و یک بیمار در هر ۲۲۱ نوزاد غربالگری شده است، گفت: بیماری کم کاری تیروئید در همه نقاط دنیا بروز می کند و روند افزایشی داشته است.

وی اضافه کرد: بروز این بیماری در ایران ۴ تا ۸ برابر میزان جهانی است در عین حال ۵۰ درصد از موارد ابتلا در نوزادان گذراست. اگرچه هر دو نوع دائم و گذری این بیماری برای مصونیت از عوارض جدی، نیاز به درمان دارند.

دکتر یار احمدی مهم ترین عوامل بروز بالای کم کاری تیروئید نوزادان در کشور را چنین برشمرد: اختلالات ید در محیط، نارس بودن، وزن کم نوزاد هنگام تولد، دوقلو یا چند قلو بودن، زردی طول کشیده، کمبود دریافت ید روزانه در مادر باردار، ابتلای مادر به بیماری تیروئیدی، ابتلای مادر به دیابت، وجود ناهنجاری مادرزادی، سابقه داشتن خواهر یا برادر مبتلا به کم کاری تیروئید و ازدواج های فامیلی.

وی با اشاره به غربالگری کم کاری تیروئید در نوزادان غیرایرانی، گفت: از سال ۹۰ تا ۱۴۰۱ بالغ بر ۵۴۰ هزار و ۲۸۷ نوزاد غیر ایرانی غربالگری شده و از میان آن ها ۲ هزار و ۵۸۷ بیمار شناسایی شده است.

رئیس اداره غدد و متابولیک وزارت بهداشت خاطرنشان کرد: این در حالی است که تعداد نوزادان غیرایرانی بیش از ۳.۵ برابر افزایش و تعداد بیماران شناسایی شده در بین آنان نیز ۷ برابر افزایش یافته است.

یاراحمدی در پایان برنامه کشوری غربالگری نوزادان را یکی از برنامه های موفق در سیستم سلامت کشور دانست و ابراز داشت: پوشش ۹۵ درصدی برنامه نشان از موفقیت برنامه در سیاستگذاری و اجرا و ناشی از تلاش های همکاران در دانشگاه های علوم پزشکی کشور در اجرای موفق برنامه بوده است. ۲۰۲/

A Real Case of Research Impact!

PlumX Metrics

Sign in ?

Embed PlumX Metrics



Prevalence of congenital hypothyroidism in Isfahan, Iran: Results of a survey on 20,000 neonates

59

Citations

94

Usage

27

Captures

Metric Options: Counts 1 Year 3 Year ⓘ

Citation Data: Hormone Research, ISSN: 0301-0163, Vol: 62, Issue: 2, Page: 79-83

Publication Year: 2004

Scopus metrics

59 50th percentile

Citations in Scopus

0.33

Field-Weighted citation impact ?

Views count ?

Last updated on 18 June 2021

8

Views count 2021

48

Views count 2013-2022

Metrics Details

CITATIONS 59

Citation 59

Indexes

Scopus ↗ 59

CrossRef 13

USAGE 94

Abstract Views 88

*EBSCO 88

Full Text Views 6

*EBSCO 6

Historical data only

Review Description

Aims: To evaluate the prevalence of congenital hypothyroidism (CH) in a screening program performed for the first time in Isfahan, Iran. Methods: From May 2002 to December 2002, T and TSH serum concentrations of 20,000 3- to 7-day-old newborns, born in all 17 hospitals of the city, were measured by radioimmunoassay and immunoradiometric

The newborns with a

Show more ▾

Bibliographic Details

What is Research Impact?

- Research **funders** and research **organizations** globally are looking to **measure impact** .
- The impacts are not easily **recognized & quantified**.
- There can be considerable **time lags** between research and impact.
- Impact is often made from **accumulated knowledge** and **not a specific research finding**.

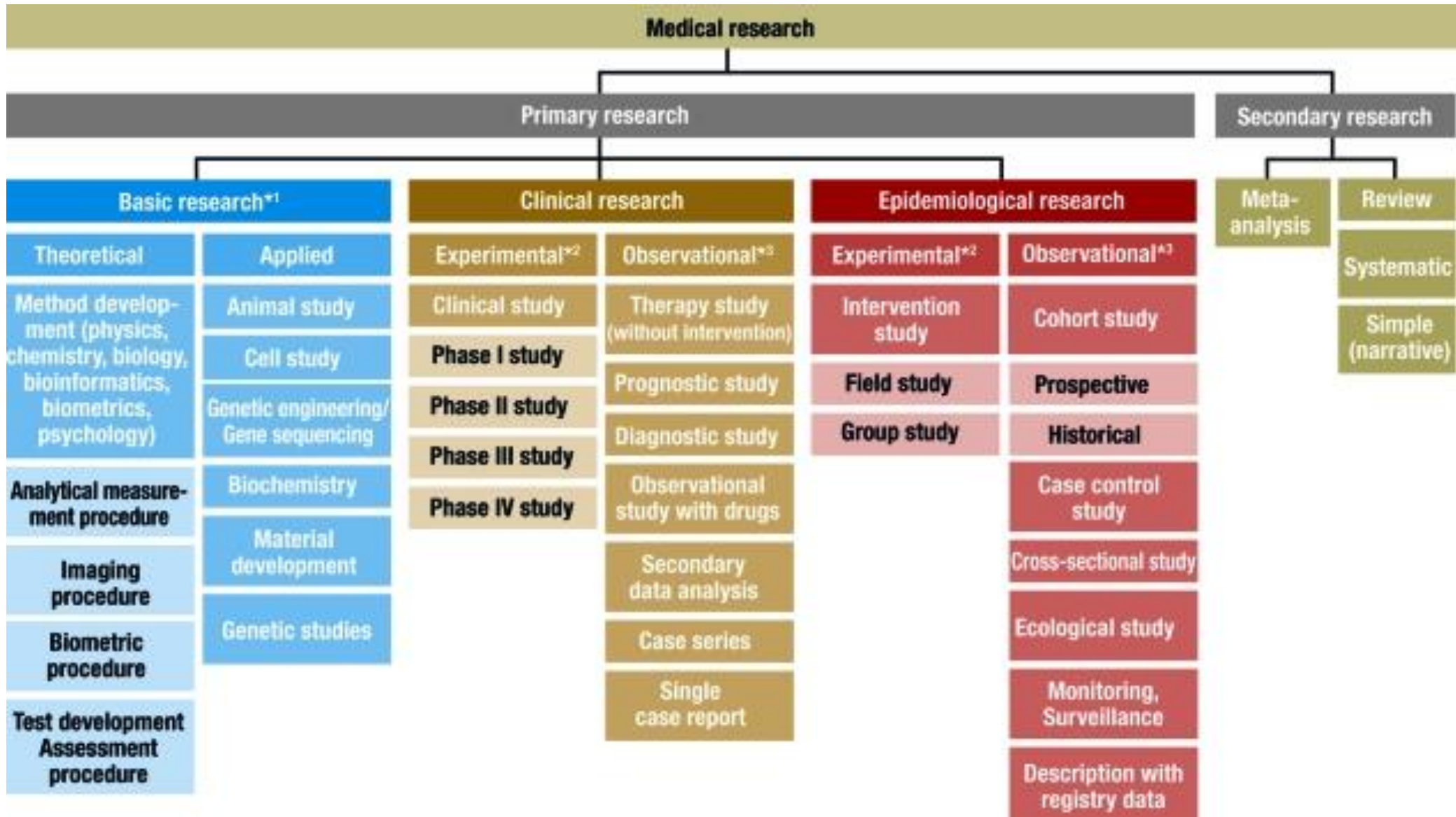
Research **Impact Goals** & Application

- What **type** of **impact** you are trying to achieve?
- **Who** will **benefit** from your research?
- **How** will they **benefit**?
- **How** can you **measure** this impact?
- **How** can you capture & provide **evidence** of this?

A Quick Look at: Steps in **Scientific Writing**

- **Design** well
- Decide politics
- Choose journal
- Read instructions to authors/papers
- Set framework
- Prepare drafts
- Distribute
- Polish
- Submit

Which Type of Study Makes the Research Impact?



Different Types of Impacts

- Research impact
- Social impact
- Clinical impact
- Economic impact
- Environmental impact
- Impact on health and wellbeing
- Policy influence and change
- Technological developments

Altmetrics (**Alternative Metrics**)

Article Level Metrics

- Scores article **social impact** & Monitors “mentions” in **society**

- Conventional Media
- Social Media
- Reference Managers
- Post-pub & Peer-review Sites



Score in context

Is one of the highest ever scores in this journal (ranked #1 of 3,692)

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Altmetrics (**Alternative Metrics**)

Article Level Metrics

Article metrics | Last updated: Mon, 27 Jun 2022 3:05:26 Z

The toxic truth about sugar

Access & Citations

165k

Article Accesses

467

[Web of Science](#)

475

[CrossRef](#)

Citation counts are provided from Web of Science and CrossRef. The counts may vary by service, and are reliant on the availability of their data. Counts will update daily once available.

Online attention



- 1625 tweeters
- 22 Google+ users
- 4 Redditors
- 660 Mendeley
- 33 blogs
- 49 news outlets
- 7 Video uploaders
- 6 Citeulike
- 53 Facebook pages
- 1 LinkedIn users
- 7 Wikipedia page

This article is in the 99th percentile (ranked 9th) of the 248,715 tracked articles of a similar age in all journals and the 99th percentile (ranked 2nd) of the 1,093 tracked articles of a similar age in *Nature*

Altmetric calculates a score based on the online attention an article receives. Each coloured thread in the circle represents a different type of online attention. The number in the centre is the Altmetric score. Social media and mainstream news media are the main sources that calculate the score. Reference managers such as Mendeley are also tracked but do not contribute to the score. Older articles often score higher because they have had more time to get noticed. To account for this, Altmetric has included the context data for other articles of a similar age.

Altmetrics (**Alternative Metrics**)

Article Level Metrics

Article metrics | Last updated: Mon, 27 Jun 2022 8:20:19 Z

Effect of a vitamin/mineral supplement on children and adults with autism

Access & Citations

51k
Article Accesses

114
[Web of Science](#)

140
[CrossRef](#)

Citation counts are provided from Web of Science and CrossRef. The counts may vary by service, and are reliant on the availability of their data. Counts will update daily once available.

Online attention



- 75 tweeters
- 35 Google+ users
- 1 Wikipedia page
- 343 Mendeley
- 3 blogs
- 1 news outlets
- 55 Facebook pages
- 1 Pinterest

This article is in the 99th percentile (ranked 1,544th) of the 247,988 tracked articles of a similar age in all journals and the 98th percentile (ranked 1st) of the 86 tracked articles of a similar age in *BMC Pediatrics*

Altmetric calculates a score based on the online attention an article receives. Each coloured thread in the circle represents a different type of online attention. The number in the centre is the Altmetric score. Social media and mainstream news media are the main sources that calculate the score. Reference managers such as Mendeley are also tracked but do not contribute to the score. Older articles often score higher because they have had more time to get noticed. To account for this, Altmetric has included the context data for other articles of a similar age.



RETURN TO ISSUE | < PREV TECHNICAL NOTE NEXT >

Tattoo-Based Noninvasive Glucose Monitoring: A Proof-of-Concept Study

Amay J. Bandodkar, Wenzhao Jia, Ceren Yardimci, Xuan Wang, Julian Ramirez, and Joseph Wang*

View Author Information ▾

✓ Cite this: *Anal. Chem.* 2015, 87, 1, 394–398

Publication Date: December 12, 2014 ▾

<https://doi.org/10.1021/ac504300n>

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PDF (1 MB)

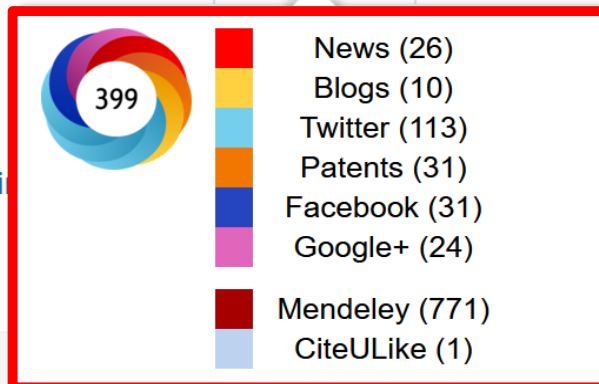
Supporti

Article Views
80129

Altmetric
399

Citations
459

Share Add to Export



Analytical Chemistry

Abstract

We present a proof-of-concept demonstration of an all-printed temporary tattoo-based glucose sensor for noninvasive glycemic monitoring. The sensor represents the first example of an easy-to-wear flexible tattoo-based



Embed PlumX Metrics



Long-term neurologic outcomes of COVID-19

Citation Data: Nature Medicine, ISSN: 1546-170X, Vol: 28, Issue: 11, Page: 2406-2415

Publication Year: 2022

45	16	189	50	3,928
Citations	Usage	Captures	Mentions	Social Media

Metric Options: Counts 1 Year 3 Year ⓘ

Home

Overview

Highlights

Policy Citations

News Mentions

Blog Mentions

Wikipedia References

Twitter

This article has 1,846 Twitter interactions across 1 URL. It has received 462 tweets and 1,384 retweets.

 **Stiftung Kopfschmerzen / ...** 
@kopfwehstiftung · Follow

Replying to @AnnEliA91
#Migräne nach #Corona wird uns noch länger begleiten. Erste Studien zeigen, dass Migräne zunimmt.
Gute Besserung wünscht @kopfwehstiftung

 **Stiftung Kopfschmer...** @kopfweh...

#FactFriday: Eine neue Studie zu #LongCovid zeigt, das #Corona-Virus erhöht das Risiko für neurologische Erkrankungen.
👉 Um 35% steigt die Wahrscheinlichkeit für leichte bis starke #Kopfschmerzen
👉 Um 21% steigt sie für #Migräne.
Quelle: nature.com/articles/s4159...
@kopfwehstiftung

 **Robert De Roos** 
@Roosr01 · Follow

@NOS
 **WesElyMD**  @WesElyMD
1/📄 Catastrophic Data on Long-Term Neuro Deficits in #LongCOVID !!

from >150k pts & 11M patient VA study
Science shows a 42%📈 risk of any neuro dz 1 year later in LC pts even from mild never hospitalized COVID.

See recent 📄👉 w other studies
go.nature.com/3LB8D0u

 **Chris Knecht**   | Joggel... 
@ChrisKarlKnecht · Follow

Replying to @RWittenbrink
⚠️🤢🤔 Langfristige neurologische Störungen bei Personen, die an COVID-19 erkrankt waren. 22.09.2022

nature.com/articles/s4159...

#CovidIsntOver #COVID19 #LongCovid
#DieMaskeBleibtAuf #LongCovidKids
#SARSCoV2 #MassDisablingEvent
#ProtectTheKids #VorbilderTragenMaske
#aerosole



Embed PlumX Metrics



Long-term neurologic outcomes of COVID-19

Citation Data: Nature Medicine, ISSN: 1546-170X, Vol: 28, Issue: 11, Page: 2406-2415

Publication Year: 2022

45

Citations

16

Usage

189

Captures

50

Mentions

3,928

Social Media

Metric Options: Counts 1 Year 3 Year ⓘ

- 🏠 Home
- > Overview
- 📄 Highlights
 - > Policy Citations
 - > News Mentions
 - > Blog Mentions
 - > Wikipedia References
 - > Twitter

Metrics Details	
CITATIONS	45
Citation Indexes	44
Scopus ↗	44
PubMed Central ↗	38
CrossRef	10
Policy Citations	1
Policy Citation	1
USAGE	16
Abstract Views	10
Digital Commons ↗	10
Downloads	6
Digital Commons ↗	6
CAPTURES	189

Most Recent Tweet

See all tweets >

 **Stiftung Kopfschmerzen / Migr...** @kopfwehstiftung · Follow

Replying to @AnnEliA91

#Migräne nach #Corona wird uns noch länger begleiten. Erste Studien zeigen, dass Migräne zunimmt. Gute Besserung wünscht @kopfwehstiftung

 **Stiftung Kopfschmerze...** @kopfwehs...

#FactFriday: Eine neue Studie zu #LongCovid zeigt, das #Corona-Virus erhöht das Risiko für neurologische Erkrankungen. 🖐️ Um 35% steigt die Wahrscheinlichkeit für leichte bis starke #Kopfschmerzen 🖐️ Um 21% steigt sie für #Migräne. Quelle: nature.com/articles/s4159... @kopfwehstiftung

Article Description

The neurologic manifestations of acute COVID-19 are well characterized, but a comprehensive evaluation of postacute neurologic sequelae at 1 year has not been undertaken. Here we use the national healthcare databases of the US Department of Veterans Affairs to build a cohort of 154,068 individuals with COVID-19, 5,638,795 contemporary controls and 5,859,621 historical controls; we use inverse probability weighting to balance the cohorts, and estimate risks and

Show more ▾


Bibliographic Details

DOI: [10.1038/s41591-022-02001-z](https://doi.org/10.1038/s41591-022-02001-z) ↗

PMID: [36138154](https://pubmed.ncbi.nlm.nih.gov/36138154/) ↗

REPOSITORY URL: https://digitalcommons.wustl.edu/oa_4/732 ↗

LongCovid erhöht das Risiko für neuro...



Altmetric (**Alternative Metrics**) **Article Level Metrics**

- Evaluate your publication **Social Impact**
- **Benchmark** your article effect against others
- Connect to **discussion** on your article
- Shows **decisions made** based on your papers
- **Communicate impact** to people, colleagues etc.
- Increasingly....demonstrate **societal impact** to **funders**

Five Categories to Learn:

Citations

- **Citations:** **Traditional** index which also citations that help indicate societal impact such as Clinical or Policy Citations.
- Examples: **citation** indexes, **patent** citations, **clinical** citations, **policy** citations.
- **Sources:** Web of Science, Scopus, Google Scholar, ...

Five Categories to Learn:

Usage

- **Usage:** A way to signal if anyone is **reading the articles** or otherwise **using the research**. Usage is the number one statistic researchers want to know **after citations**.
- **Sources:** Clicks, Downloads, Views, Library Holdings, Video Plays.



Five Categories to Learn:

Captures

- **Captures:** Indicates that someone wants to **come back** to the work. Captures can be an **leading indicator** of **future citations**.
- **Sources:** **Bookmarks**, Code Forks, Favorites, Readers, Watchers.

Five Categories to Learn:

Mentions

- **Mentions:** Measurement of activities such as **news articles** or blog posts about research. Mentions is a way to tell that people are **truly engaging with the research**.
- **Sources:** Blog Posts, **Comments**, Reviews, Wikipedia References, News Media.

Five Categories to Learn:

Social Media

- **Social Media:** This category includes the tweets, Facebook likes, etc. that reference the research. Social Media can attract attention. Social media can also be a good measure of how well a particular piece of research has been promoted.
- **Examples:** Facebook, Twitter, ...
- **Sources:** Shares, Likes, Comments, Tweets

Papers Different **Impact Measures**

	Index	Measuring Systems
1	View	Academia, ResearchGate, PloS, Different Publishers
2	Downloaded/Saved	Mendeley, Different Publishers, PloS
3	Discussed	Wikipedia, Facebook, Blogs, ScienceSeeker
4	Recommended	F1000 Prime
5	Citations	Web of Science, Scopus, Google Scholar, CorssRef, Patent Citation,
6	Mentions	Blogs, News, Reddit, Wikipedia
7	Shares, Likes & Comments	Facebook, Twitter



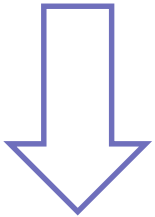
Altmetric (**Alternative Metrics**) **Article Level Metrics Benefits**

- Wide Used Resourced, NOT limited to indexed Journals
- Goof for Young Researchers
- Shows immediate impact, No more time needed
- Free, No Subscription required
- Article Level Metrics instead of Journal Level Metrics



Article Usage
(Downloads)

Academic
Citation



Blog Coverage	News Coverage
Non-Scholarly Citation	Community Input

Dissemination, Altmetrics, Citations & Impact

- **Dissemination** is not impact, even if you have the impressive number of **reads**, **downloads**, **views** or **use**.
- How did you know if anyone **really used** it or learned from it, benefitted or did anything different as results.
- Keep asking, **what happened next?!**



The **Impact** Story

Citation ≠ Impact

Altmetrics ≠ Impact

Research **Visibility** Importance

Best Research \times **visibility** = Impact

$$100 \times 0 = 0$$

Research **Visibility** & Impact

- You may consider your research papers visibility in **2** stage:
 1. **Pre-publication** Phase Visibility
 2. **Post-publication** Phase Visibility



Research Impact Story

- Pre-Research Execution
- Post-Research Execution

- Pre-Publication
- Post-Publication



Publication Process



Business Plan for Your Article

1. **Preparing** your article
2. **Publishing** your article
3. **Promoting** your published article
4. **Monitoring** your article

Business Plan for Your Article

■ Pre-Publication

- Preparing your article
- Publishing your article

■ Post-Publication

- Promoting your published article
- Monitoring your article



Research Impact Story

- Pre-Research Execution
- Post-Research Execution

- Pre-Publication
- Post-Publication

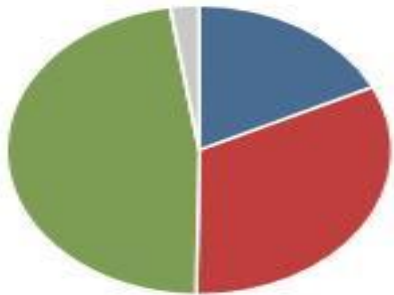
Pre-Publication (Pre-Research Execution)

- Select Research topics with a **high potential** academic and/or societal relevance.
- Consider the related **Hot Topics**.
- Consider the study types & designs like **reviews**.
- Don't forget that a **good topic** will result in a **good impact**.

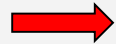
How **Collaborations** Increase Research Impact?



Institutional, National & International Collaboration & Its Effect on Citation



Metric		Publications	Citations per Publication
International collaboration	17.8%	641	5.3
Only national collaboration	32.4%	1,168	3.5
Only institutional collaboration	47.3%	1,704	2.7
Single authorship (no collaboration)	2.4%	87	2.8

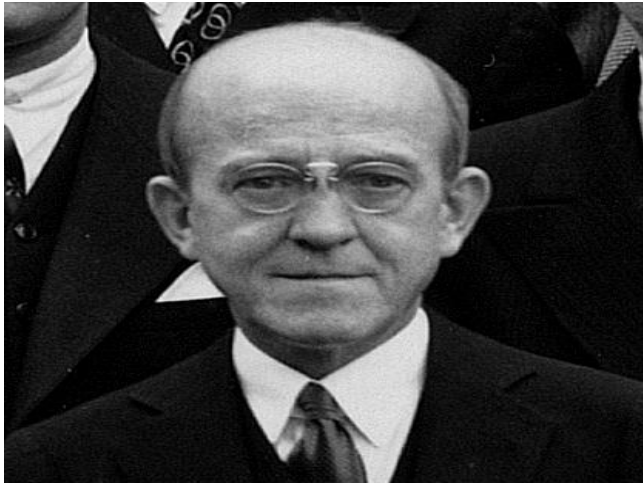


Citations per Publication



Preparing Your Article

- Spend time on **abstract and introduction & conclusion**
- Use **easy to understand** charts and **professional** illustrations
- Use **clear and correct** manuscript **language**
- Consider **Brevity** in paper, **Conciseness & Precision** in title
- **Sharing** research data



Oswald Avery (1877-1955)

1944: DNA is genes
= function

(nearly) Forgotten



James Watson (1928-Current)
Francis Crick (1916-2004)

1953: DNA two intertwined
spirals

= structure
Immortal

Writing Does Matter!



A structure for Desoxyribose
Nucleic Acid

Nature 1953, 737-738

*~900 words, 1 sketch
1st mention of DNA: 2nd line*

*"It has not escaped our notice
that the specific pairing we
have postulated immediately
suggests a possible copying
mechanism for the genetic
material."*

Studies on the Chemical Nature
of the Substance Inducing
Transformation of Pneumococcal
Types

J. Exp. Med. 1944, 137-158



*~7'500 words, 4 tables
1st mention of DNA: p9/23*

*"The evidence presented
supports the belief that a nucleic
acid of the desoxyribose type is
the fundamental unit of the
transforming principle of
Pneumococcus Type III."*

Pre-Publication (Pre-Research Execution)

- Ensure your research output has a **clear title** that is **direct** and **concise**. This will **promote readership** and **attract citations** from beyond your own discipline.
- Think about writing a **plain language summary** of your research that is understandable to a non-specialist audience including public or researchers from other disciplines



Enrich Your Article

Enrich Your Article to present your research in the **best possible** way

- **S**earch **E**ngine **O**ptimization (keywords, Captions, Highlights)
- Using **Multimedia** (Editorial Podcasts, AudioSlides)
- **Graphical** Abstract

Highlights Gynecologic Oncology Journal Example

Cervical Cancer

- [The efficacy and safety of neoadjuvant chemotherapy in the treatment of locally advanced cervical cancer: A randomized multicenter study](#) Original Research Article



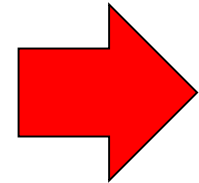
Pages 231-239

Zhijun Yang, Dandan Chen, Jieqing Zhang, Desheng Yao, Kun Gao, He Wang, Cui Liu, Jiang Yu, Li Li

[▶ Abstract](#) | [▼ Close research highlights](#) |  [PDF \(909 K\)](#)

Highlights

- NACT reduces rate of patients requiring postoperative radiation by eliminating pathological risk factors, including LVSI and deep stromal invasion.
- IP as neoadjuvant chemotherapy has similar efficacy comparing to TP, but higher rates of neutropenia and diarrhea.
- LVSI was the only factor that indicates prognosis.



Graphical Abstract

Gynecologic Oncology Journal Example

Reviews

- ☐ [The sentinel node procedure in early stage cervical cancer, taking the next step; a diagnostic review](#) Review

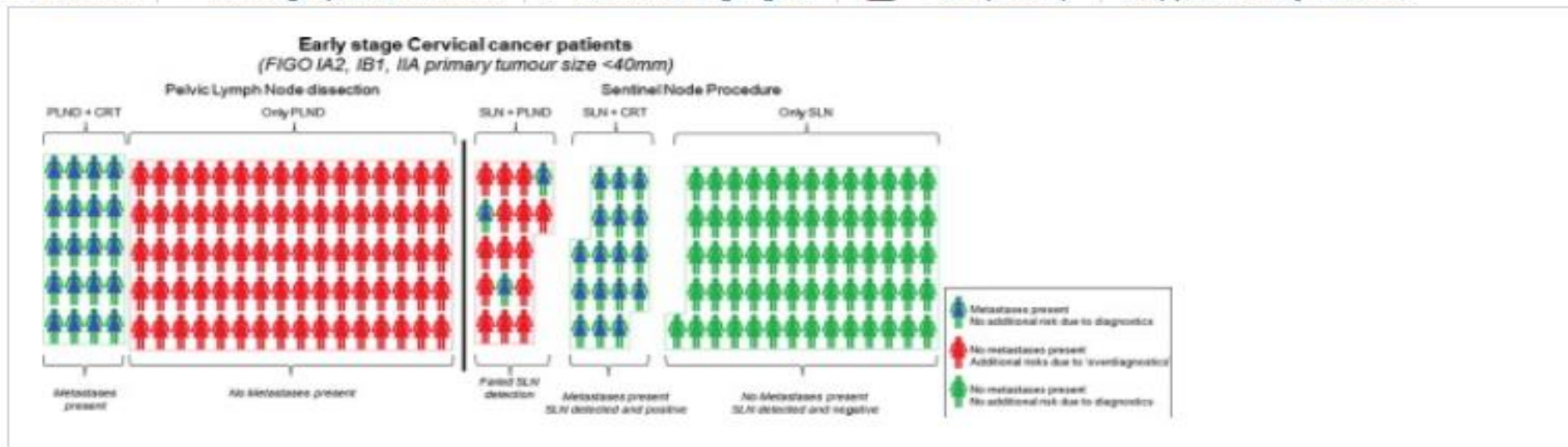


Article

Pages 559-567

Casper Tax, Maroeska M. Rovers, Corine de Graaf, Petra L.M. Zusterzeel, Ruud L.M. Bekkers

▶ [Abstract](#) | [Close graphical abstract](#) | [Research highlights](#) | [PDF \(883 K\)](#) | [Supplementary content](#)



Graphical Abstract

Gynecologic Oncology Journal Example

☐ Hepatocyte growth factor secreted by ovarian cancer cells stimulates peritoneal implantation via the mesothelial–mesenchymal transition of the peritoneum Original Research Article

Pages 345-354

Michihiko Nakamura, Yoshihiro J. Ono, Masanori Kanemura, Tomohito Tanaka, Masami Hayashi, Yoshito Terai, Masahide Ohmichi

▶ Abstract

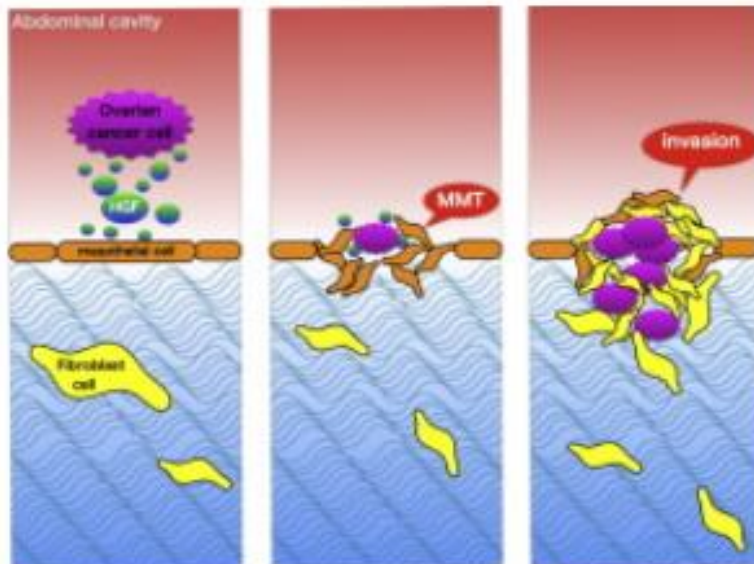
▼ Close graphical abstract

▶ Research highlights



PDF (1873 K)

Supplementary content





Business Plan for Your Article

1. **Preparing** your article
2. **Publishing** your article
3. **Promoting** your published article
4. **Monitoring** your article

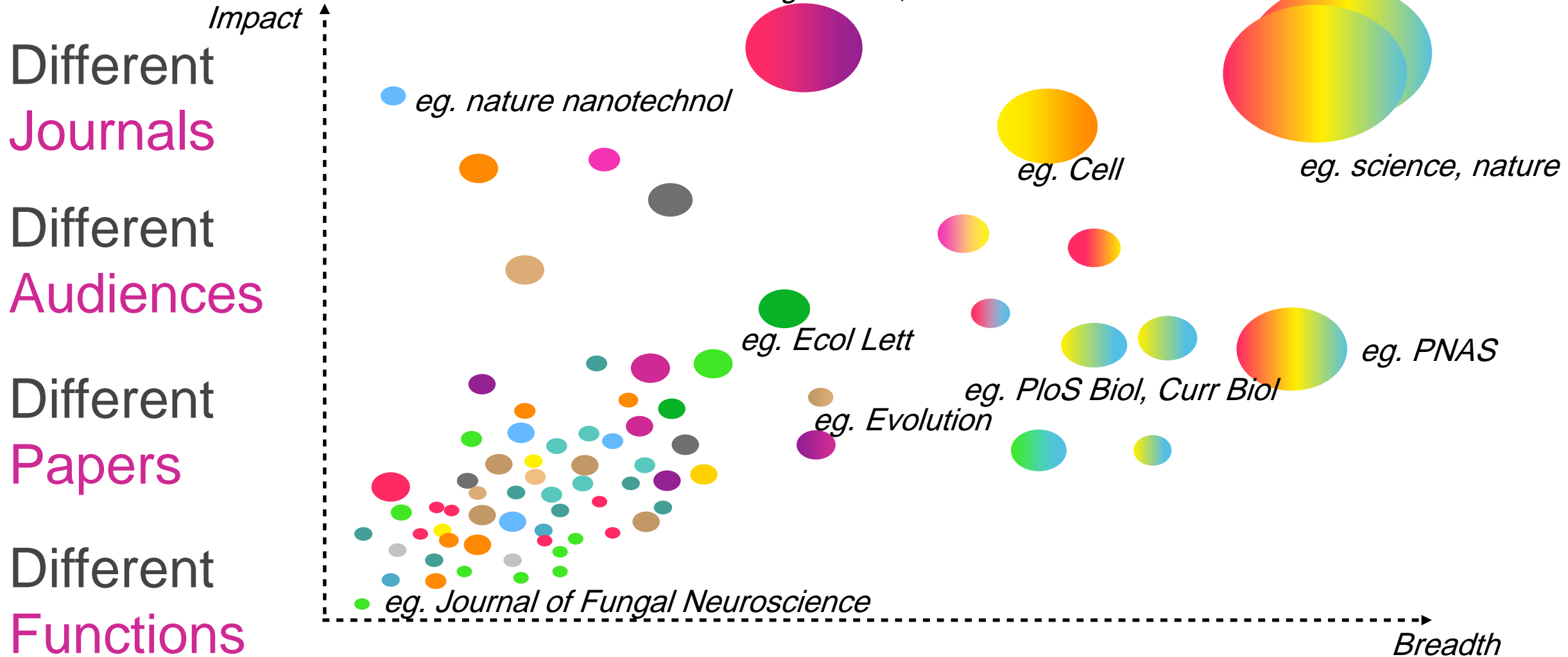
Pre-Publication (Pre-Research Execution)

- Choose the **Right Journal** to publish your manuscript
- Consider **Open Access Journals**
- Consider **the indexing Database** of target Journal

Considerations in **Selecting a Journal**

1. National or international audience?
2. Language?
3. Databases indexes Journal?
4. Multidisciplinary or specialty journals?
5. The journal's content area/scope?
6. Chances of acceptance?
7. What about the impact factor?
8. Practical matters (time to publication, etc.)

The Journal Spectrum



Elsevier Journal Finder

<http://journalfinder.elsevier.com>

ELSEVIER

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Springer journal selector

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Enter your abstract or article description

the period of investigation, it is found that the troposphere temperature has increased by about 0.033 °C/year at Helwan, Egypt, 0.03 °C/year at Coimbra, Portugal, and 0.028 °C/year in Hurbanovo/Stará Lesná, Slovakia. The Sq geomagnetic variations depend on the intensity of the electric currents generated by the effect of solar radiation in the ionosphere.

Taylor & Francis Journal Selector

<https://authorservices.taylorandfrancis.com/publishing-your-research/choosing-a-journal/journal-suggester/>

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Journal Suggester

BETA

Helping you find the best home for your research article

There are two easy steps

Step 1: Paste in the full abstract of your article.

The suggestions will be more accurate if you use a full abstract containing relevant keywords.

Step 2: Click on 'Reveal suggested journals' to see a short description of the journal and some citation and speed metrics.

Paste your abstract here...

[Reveal suggested journals](#)

[Questions about the suggester?](#)

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Edanz Journal Selector

<https://www.edanzediting.com/journal-selector>



Journal Selector

Edanz Journal Selector

Search over **28,403** journals and **11,437,701** abstracts to find the journal that's right for you

General



Search & Find

Search by keyword, field of study, journal name, publisher or abstract.

Enter your unpublished abstract and we'll find the best possible journals that have published relevant papers.



Sort & Filter

Sort results by title, impact factor or frequency.

Filter results by field of study, impact factor range, SCI-E Index and Open Access options.



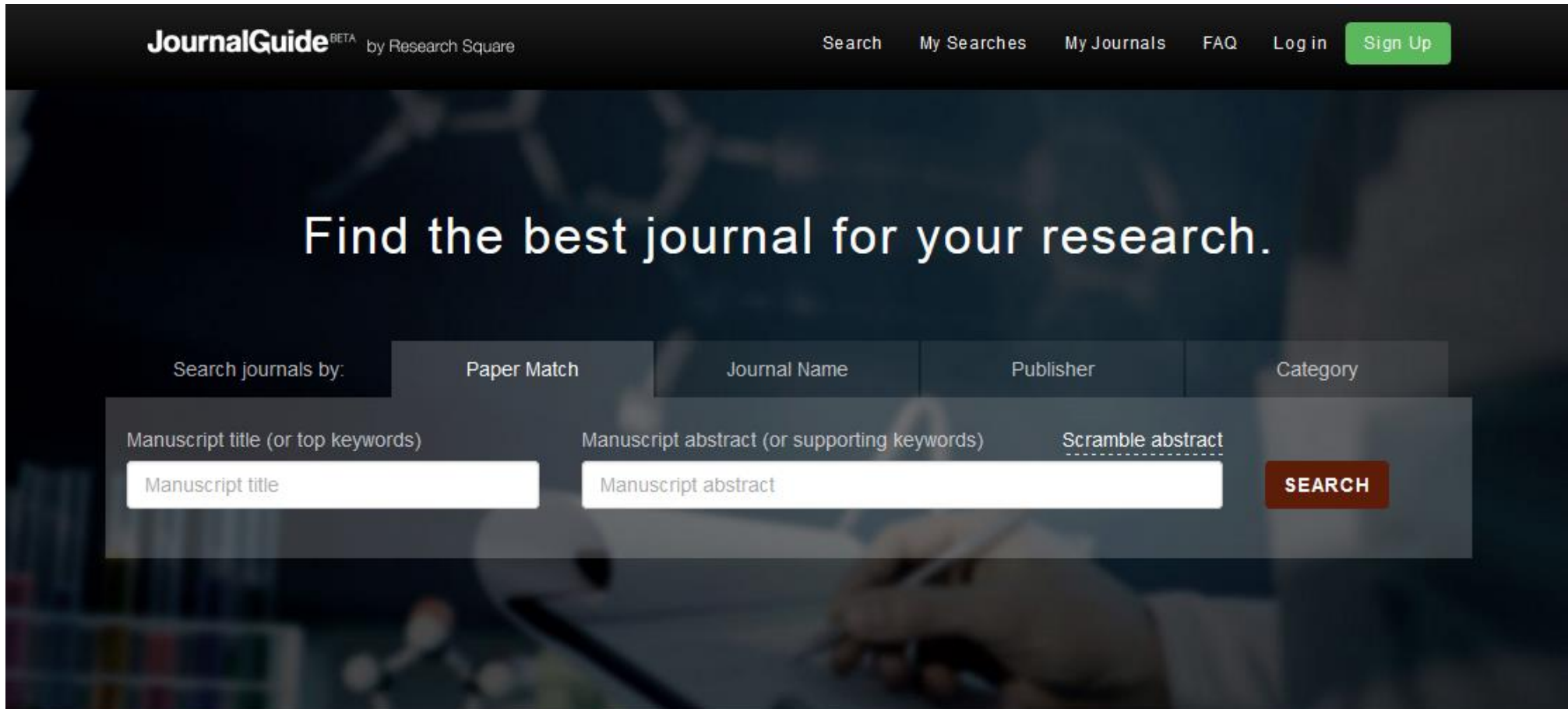
Make a Decision

Access detailed information about the journal to make a more informed decision.



Journal Guide

<https://www.journalguide.com/>



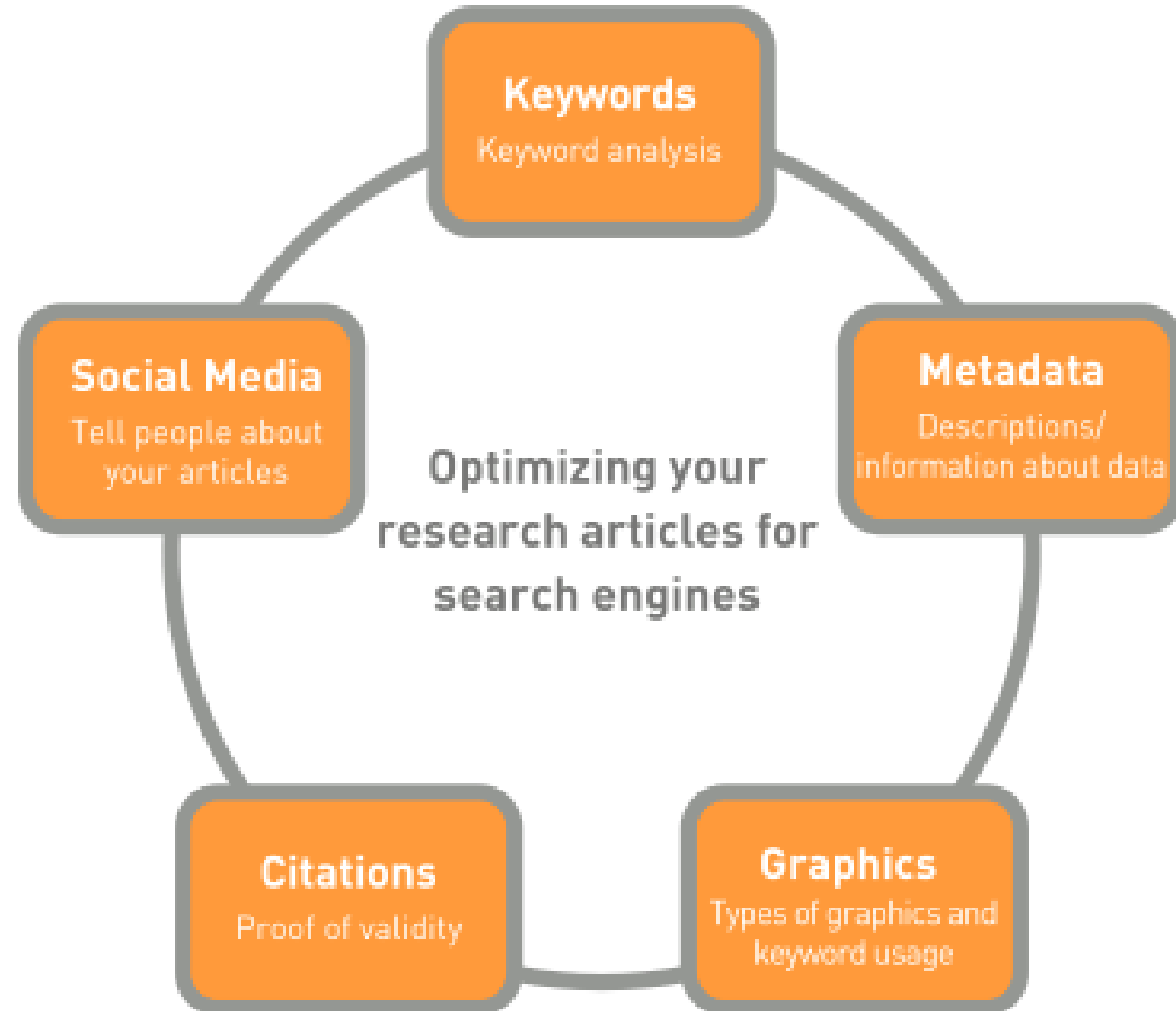
The screenshot shows the JournalGuide website interface. At the top, there is a navigation bar with the logo "JournalGuide^{BETA} by Research Square" on the left and links for "Search", "My Searches", "My Journals", "FAQ", "Log in", and a green "Sign Up" button on the right. Below the navigation bar, a large banner area contains the text "Find the best journal for your research." in white. Underneath the banner is a search form with a dark background. The form has a header "Search journals by:" followed by five tabs: "Paper Match", "Journal Name", "Publisher", and "Category". Below the tabs are three input fields: "Manuscript title (or top keywords)" with a placeholder "Manuscript title", "Manuscript abstract (or supporting keywords)" with a placeholder "Manuscript abstract", and "Scramble abstract" which is currently empty. To the right of these fields is a red "SEARCH" button.

Data update: Journal Impact Factor is not currently displayed on JournalGuide. [Read more here.](#)

Optimizing articles for search-engines (SEO)

- Although search engine optimization (SEO) is usually associated with websites and webpages, it can be used for scientific articles as well.
- Not only to ensure that articles are found (crawled) and indexed, but also to influence the position where the articles are displayed in the results list.
- Just like any other type of ranked search results, articles displayed in top positions are more likely to be read and cited.

How to SEO your articles



Pre-Publication (Pre-Research Execution)

- Use Alternative and/or parallel publishing channels, such as **Pre-print Services** and **Pre-print Servers** to generate feedback and interest in your publication (e.g. arXiv.org e-print service and others)



Research Impact Story

- Pre-Research Execution
- Post-Research Execution

- Pre-Publication
- Post-Publication

Business Plan for Your Article

■ Pre-Publication

- Preparing your article
- Publishing your article

■ Post-Publication

- Promoting your published article
- Monitoring your article



Promoting your published article

Post-Publication (Post-Research Execution)

- Writing and publishing your scholarly article is not the final step. You must **Market** your research.
- To maximize your research impact, you must inform everyone in your **academic** and **social networks** about it.
- Use **social media** to discuss your article or study, focusing on **special interest groups**.

Impact & So **Correlated With Visibility**

- To make an **impact**, first you have to make **yourself** & your work **visible**.
- The more **visible** you are, the more **probable** you make an **impact**.
- The ways for researchers to increase their visibility and impact are different across different.

Make & Mind Your Academic Profiles

- Use & Update **Author Identifiers** and **Profiles**:
- ORCID
- Google Scholar
- ResearcherID (Publons)
- Scopus Author ID
- Loop

Post-Publication (Post-Research Execution)

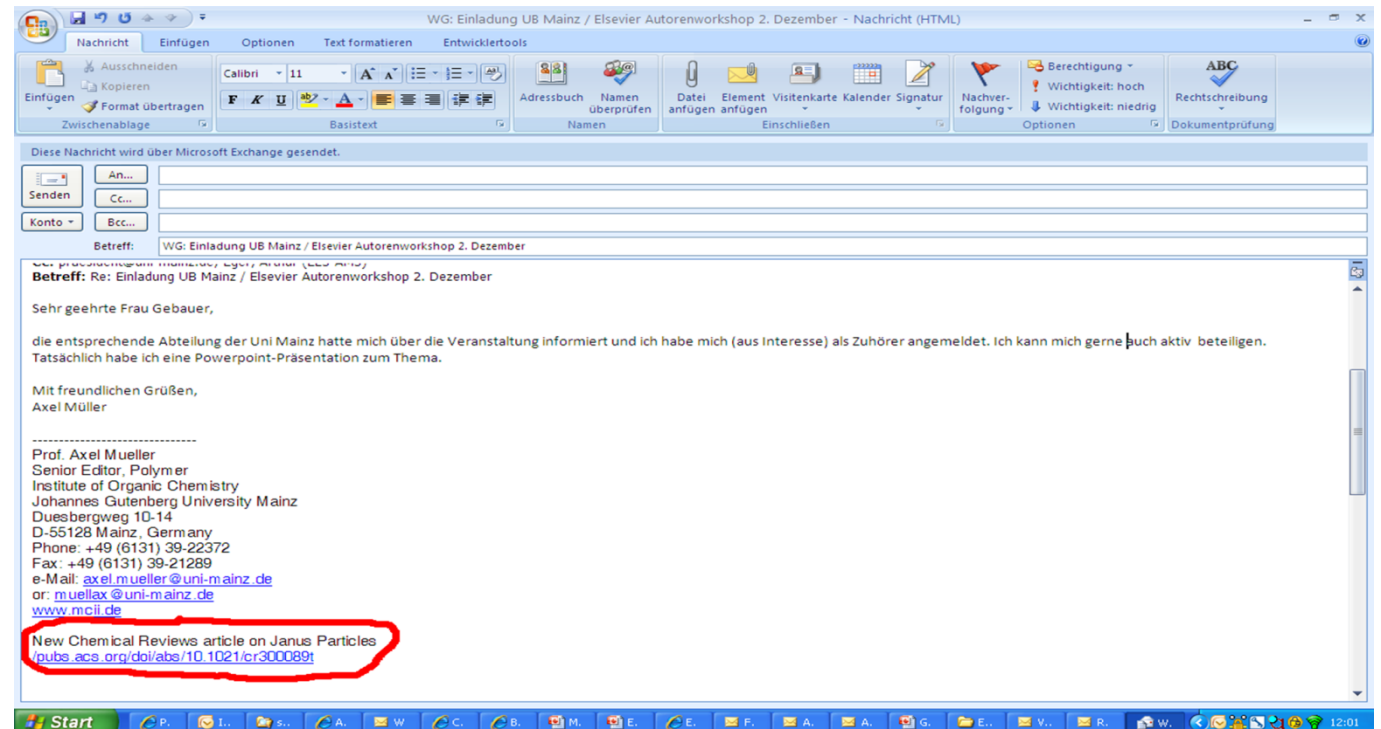
- Share links to your abstract or publication on [Academia](#), [LinkedIn](#), on your [website](#), your academic institution's profile page, [Facebook](#), [Twitter](#), etc.
- When publisher policy permits, post your article/study (or author version) to:
 - Subject repositories, (e.g. SSRN, DOAJ, PubMed Central)
 - [Mendeley](#), [ResearchGate](#), [Academia](#) and elsewhere

Promoting your article

1. Press Release
2. Conferences
3. Media relations
4. Shared links to your article
5. Online CV
6. Social Networks

Share links to your article

- Customized short link with free access
- Link from university website & Emails to boost SEO



Social Networks

Maximize your research impact of your published papers through Social Networks





Academic Social Networks

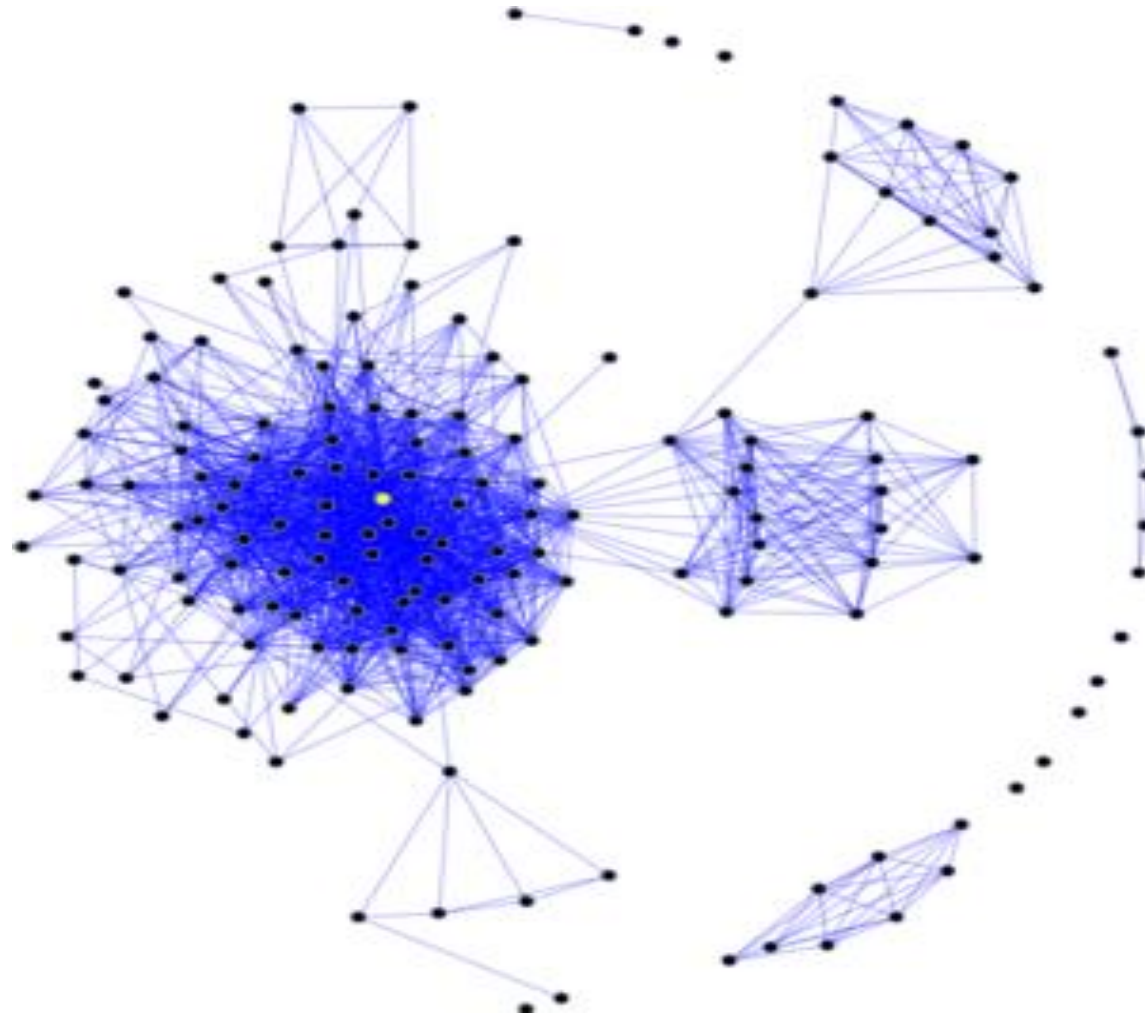


**Facts Don't Change Minds;
Social Networks,
Group Dialogue,
and Stories Do.**

What is a **Social Network**?








































- A social network is a social structure **made up of individuals** which are connected by **one or more specific types of interdependency**, such as **friendship, common interest, relationships of beliefs, knowledge or prestige.**

Social Network Analysis





SOCIAL MEDIA AND ACADEMIA

	 X/TWITTER	 BLUESKY	 LINKEDIN	 MASTODON	 THREADS
Users	550m	1.7m	310m	1.8m	8m
Business adoption					
Mobile app					
Web version					
Threaded posts					
Scheduling posts					
Multimedia posts	  		  	  	  
Character length	280 <small>Free version</small>	300	3000	500	500
Direct Messages					

Data source: Wikipedia (accessed 1st November 2023)

linktr.ee/andy_tattersall

 BY 4.0

Examples of **Social** Networks

Scientific Social Networks

- <http://www.researchgate.net/>
- <http://www.academia.edu/>
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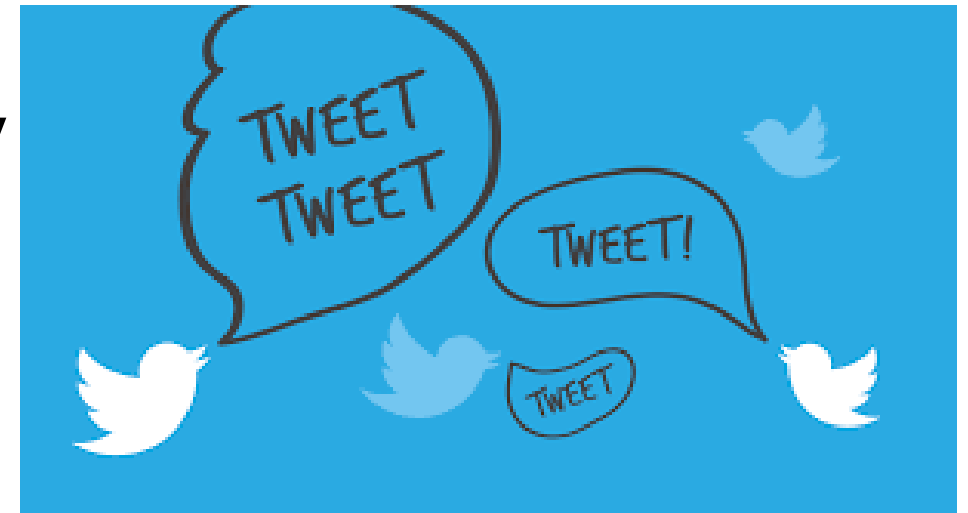
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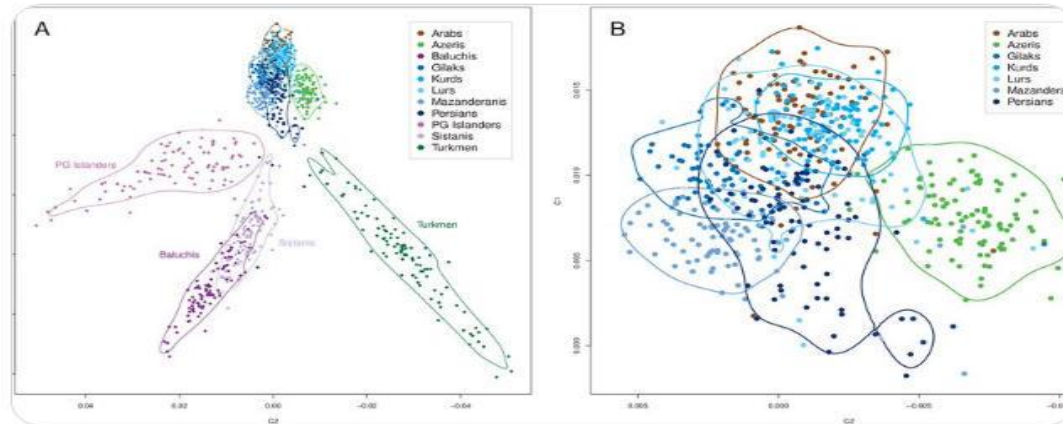


Neo @legendoffall_ · Aug 5

...

رشتو:

۱/ آزمایش ژنتیکی ۱۰۰۰ ایرانی از اقوام مختلف: پژوهشگران تعداد مشخصی از گروه های ترک، لر، عرب، فارس، بلوچ، ترکمن، کرد، زرتشتی، گیلک، جزایر خلیج فارس و سیستانی را انتخاب میکنند و آزمایش میکنند. نتایج نشون می ده که همه از یک ریشه هستیم؛ فقط بلوچ و جزایر خلیج فارس و اعراب کمی



268

1,183

7,796



Neo @legendoffall_ · Aug 5

...

۲: التقاط با همسایه ها داشتن.

زرتشتی ها وسط کلاستر همه اقوام هستند. اختلاف بین دوتا فارس ممکنه از یک فارس و یک ترک بیشتر باشه. نتایج نشون میده که ماها با مردم Tuscany ایتالیا زن مشترک زیادی داریم. همچنین اگه ما را با اعراب و جنوب آسیا و شرق آسیا و ... مقایسه کنن، ما با اروپایی ها

10

39

2,549



Twitter Visibility

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Published: September 24, 2019 • <https://doi.org/10.1371/journal.pgen.1008385>

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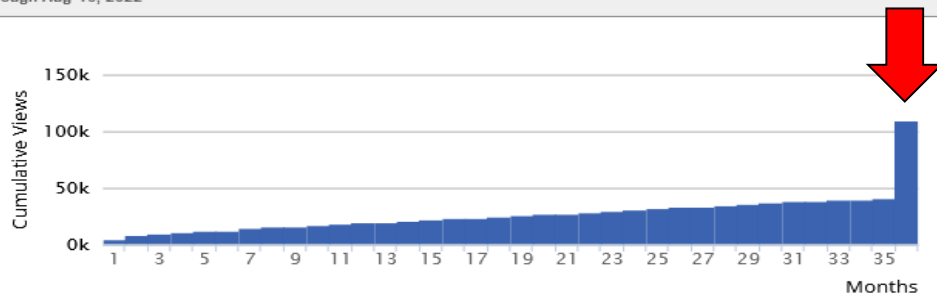
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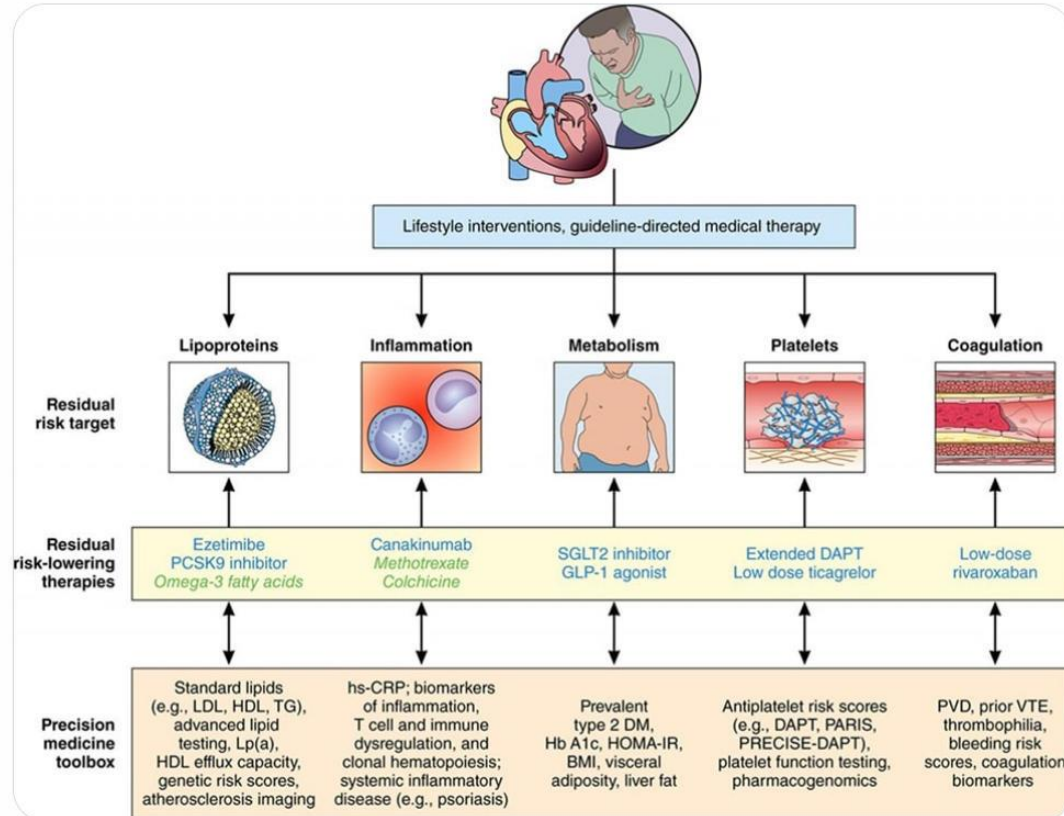


The Heart @ZHeart11768530 · 22h

Residual Atherosclerotic Cardiovascular Disease Risk : Evaluation and Treatment

ejinme.com/article/S0953-...

#cardiology #CardioTwitter #CardioEd #medtwitter #MedEd



AJKD @AJKDonline · 17h

Kidney Dysfunction in the Setting of Liver Failure: Core Curriculum 2024

buff.ly/3NoEcfZ

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Kanduri and Velez

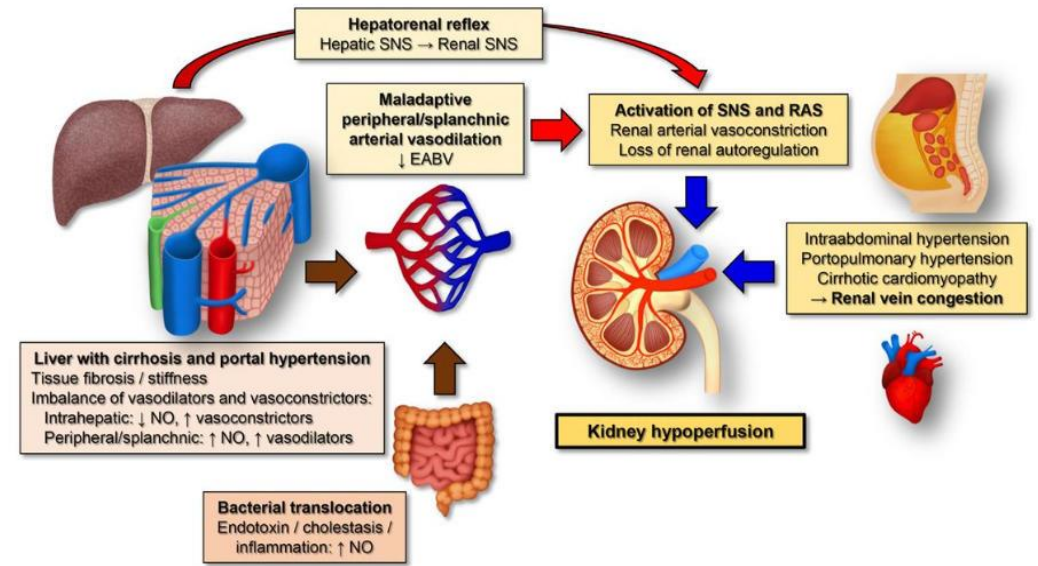


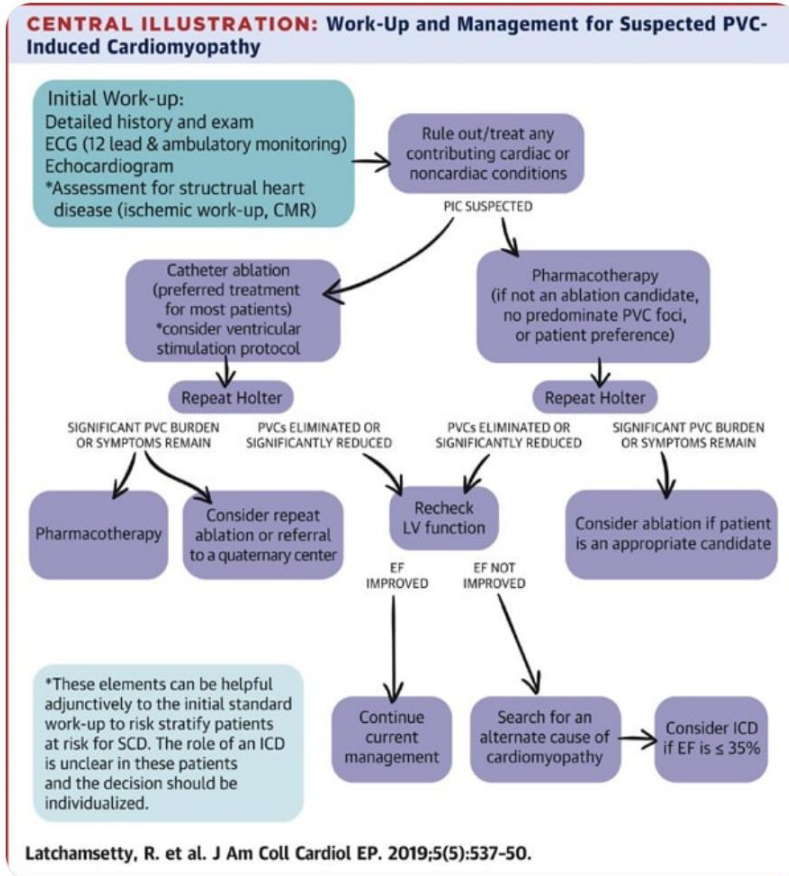
Figure 2. Pathogenesis of hepatorenal syndrome type 1, so-called hepatorenal physiology, illustrating the hemodynamic mechanisms that cause kidney hypoperfusion in decompensated cirrhosis. Abbreviations: EABV, effective arterial blood volume; NO, nitric oxide; RAS, renin-angiotensin system; SNS, sympathetic nervous system.

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The Heart @ZHeart11768530 · 21h
Premature Ventricular Complex–Induced Cardiomyopathy @JACCJournals

jacc.org/doi/abs/10.101...
#CardioEd #CardioTwitter #cardiology #cardiotwitter #MedEd #ECG #MedX



The BMJ @bmj_latest · Dec 18
Study finds that placing a chair by a patient's bedside makes physicians more likely to sit during patient encounters, receiving higher patient communication and satisfaction scores 🙋🏻👍

Includes a #VisualAbstract summarising the study #BMJChristmas bmj.com/content/383/bm...

thebmj *Visual Abstract* Convenient chair placement
Effect on physician behavior and patient satisfaction

Summary ✓ Chair placement is a simple, no cost, low tech nudge that increases a physician's likelihood of sitting with a patient and results in both higher patient satisfaction and communication scores

Study design Randomized controlled deception trial | Double blind | One public county hospital in Dallas, Texas

Population 51 internal medicine physicians Average age: 35 Sex: 51% male
125 admitted patients Average age: 53 Sex: 55% male

Comparison

Group	Intervention	Control
Chair placement group	Chair placed within 3 ft (0.9 m) of the bedside	Chair placed inside cabinet in patient's room
	60	65

Outcomes

Intervention v control	Value (95% CI)	Unadjusted logistic regression, odds ratio 95% CI
Physicians sat with patient	20.7 (7.2 to 59.4)	PRIMARY
Perfect HCAHPS* scores	5.1 (1.1 to 24.9)	

*Hospital Consumer Assessment of Healthcare Providers and Systems

Intervention v control	Value (95% CI)	Unadjusted linear regression, % 95% CI
TAISCH† score improvement	3.9 (0.7 to 7.2)	

†Tool to Assess Inpatient Satisfaction with Care from Hospitalists

< Favors control | Favors intervention >

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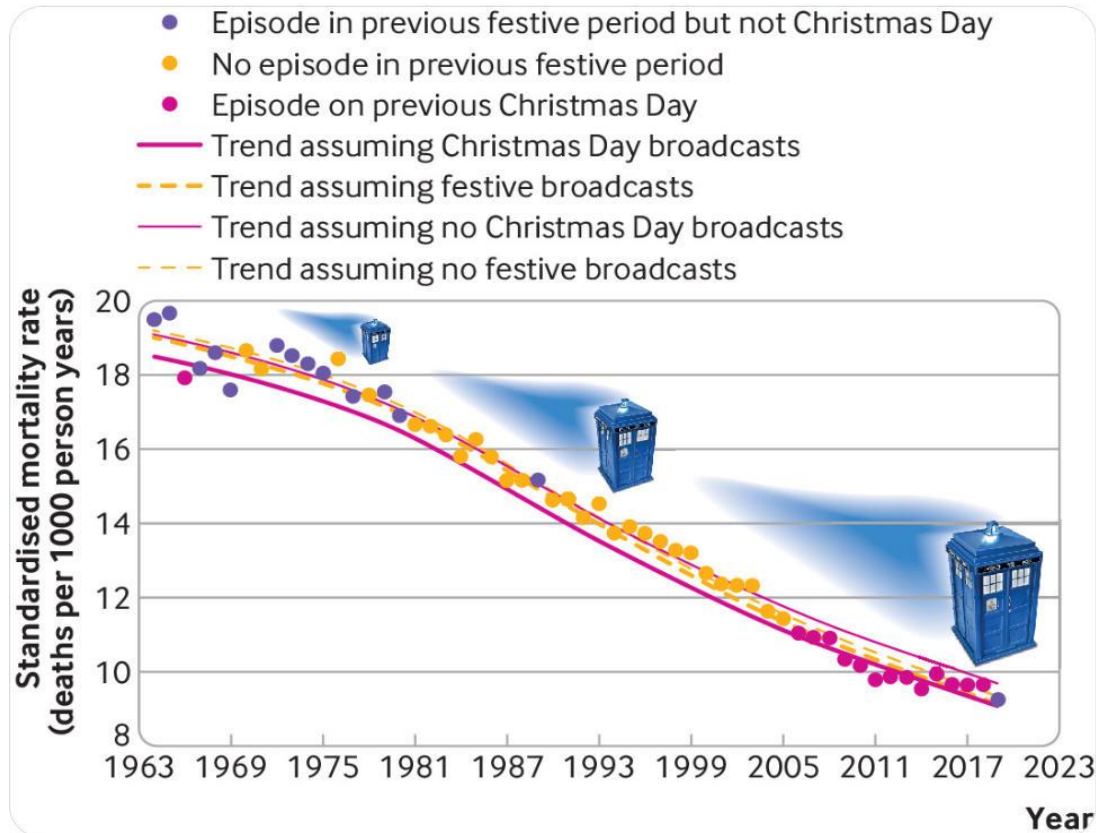
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The BMJ @bmj_latest · 9h

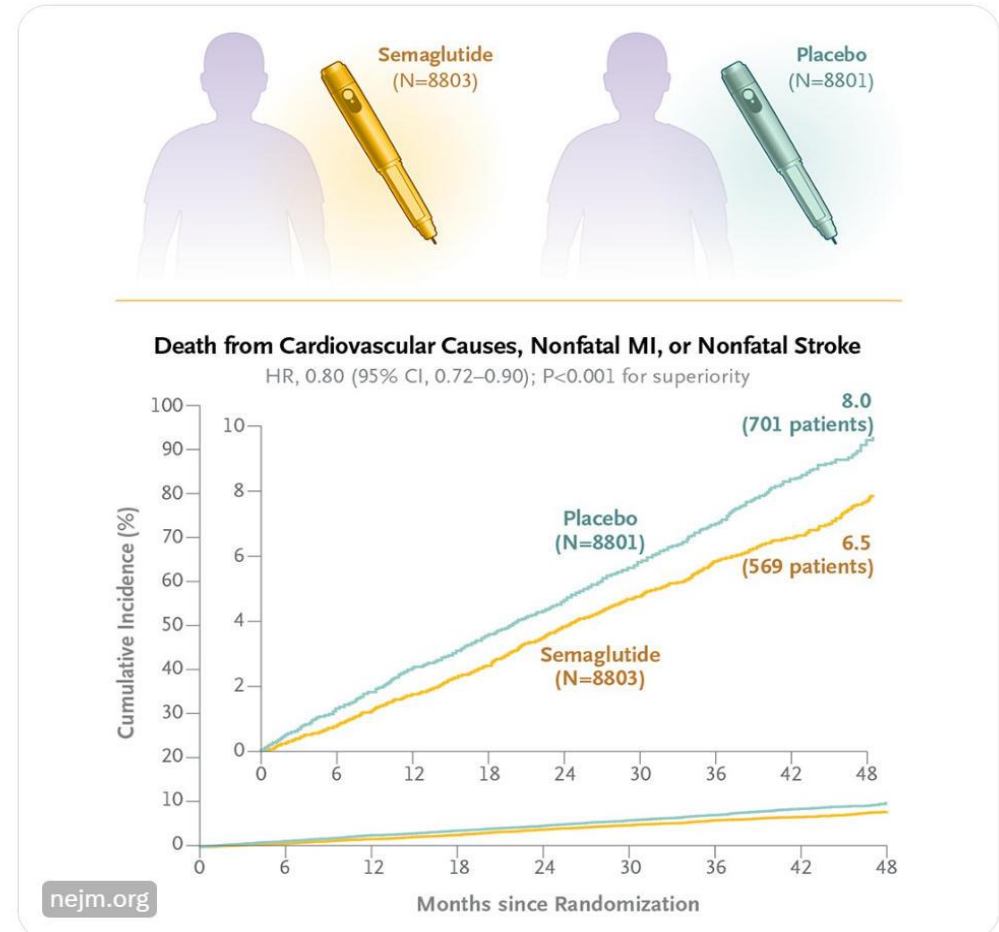
A new [#DoctorWho](#) episode shown during the festive period, especially on Christmas Day, is associated with lower death rates in the subsequent year across the UK, finds new [#ChristmasBMJ](#) study

[#DrWho](#) @Richard_D_Riley
bmj.com/content/383/bm...



NEJM @NEJM · Dec 18

GLP-1 receptor agonists can reduce the risk of adverse cardiovascular events in pts with diabetes. Whether the GLP-1 receptor agonist semaglutide can also reduce cardiovascular risk in pts with overweight or obesity but without diabetes is unknown. nejm.md/465pj91






Bug in a mug: are hospital coffee machines transmitting pathogens?

BMJ 2023; 383 doi: <https://doi.org/10.1136/bmj.p2564> (Published 18 December 2023) Cite this as: *BMJ* 2023;383:p2564








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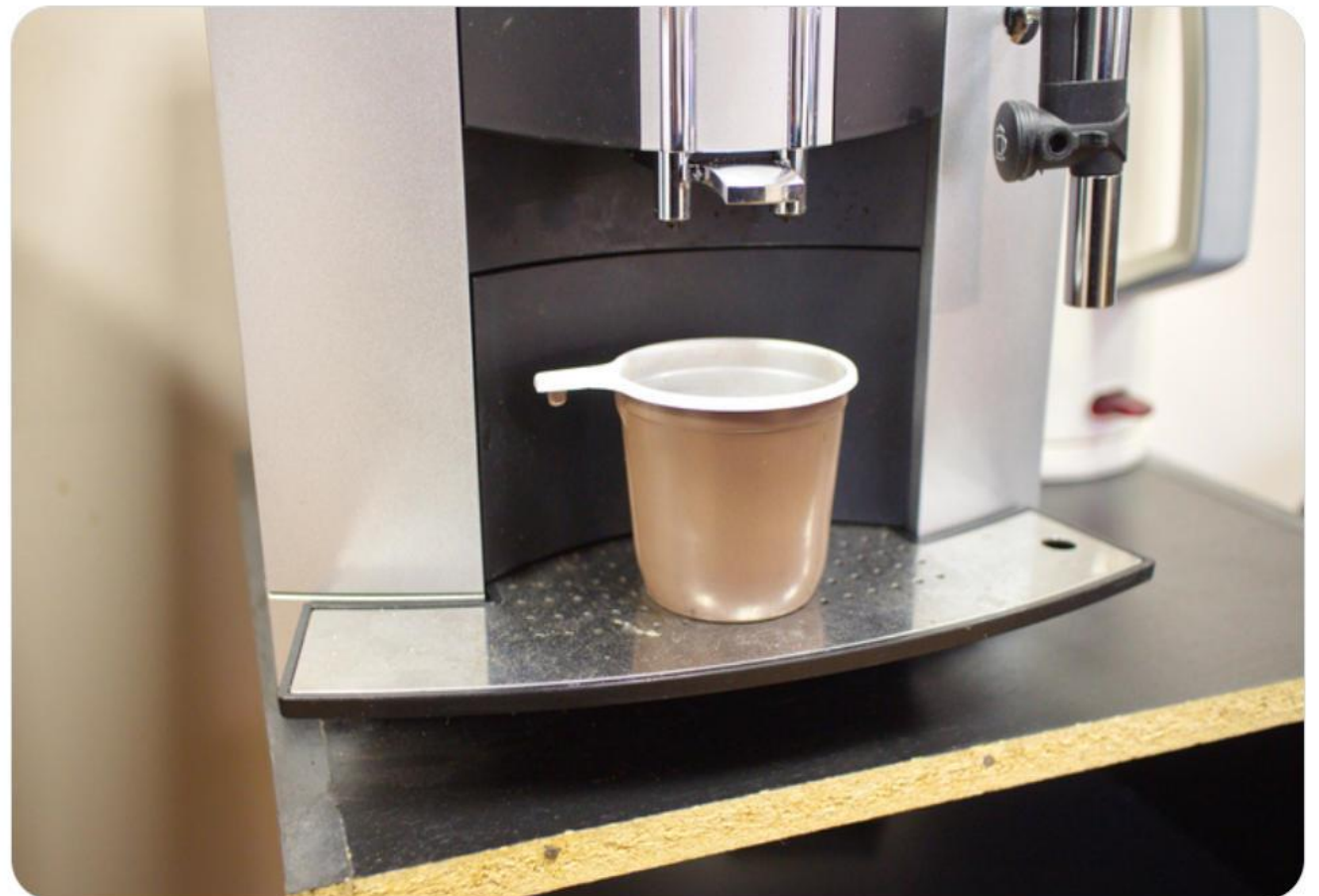


BMJ  @bmj_company · 4h

  Good news for healthcare workers!  New study in @bmj_latest gives hospital coffee machines a clean bill of health—no need for a general ban   Time to enjoy that much-needed coffee break worry-free!

#HealthcareNews #CoffeeSafety

Read it here: bit.ly/3uX6JCY



How to Post on Paper on X Twitter?!



Wiley Clinical Health @WileyHealth · 2h



Is trustworthiness an adequate screening criterion to ensure the accuracy of #SystematicReviews? This #CochraneESM article looks at the impact of removing untrustworthy #RCTs. #InclusionCriterion @cochranemthds

👁️ ➔ Read the full article for free: ow.ly/Bxs150QjCqn

The graphic features a blue and white grid background. On the left, the Cochrane logo (a circle with a vertical line and a horizontal line) is positioned above the text "Cochrane Evidence Synthesis and Methods". Below this, the text "New Open Access Article:" is followed by "Trustworthiness assessment as an inclusion criterion for systematic reviews - what is the impact on results?". At the bottom left, the Wiley logo and the text "WILEY ALT" are visible. On the right side of the graphic, there is a stylized blue graphic consisting of a vertical line with several horizontal bars of varying lengths extending to the left, resembling a bar chart or a stylized tree.

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Elsevier Biomedchem  @elsbiomedchem · 1h



The JBC editorial team invite your paper. Find out more spkl.io/60174YItW
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 65



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Researchgate

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A screenshot of the ResearchGate website interface. The top navigation bar includes the ResearchGate logo, a search bar, and icons for home, profile, and settings. The main content area is titled "Live Feed" and displays several updates from users, such as "Majid Salehi is following Abdollah Ghasemi Pirbalouti and Mostafa Gholami." and "Farhad Shokraneh changed his/her research keywords to Medical Journalism." The right sidebar shows "Profile Completion 90%" with a progress bar, "Related Researchers" with "Follow" buttons, and "Suggested Topics" like "Medicine" and "Human Embryonic and Pluripotent Stem Cell Research". The browser's address bar at the bottom shows "hgate.net/..." and the system tray indicates "Internet | Protected Mode: Off" and "100%" zoom.

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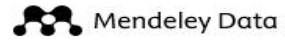
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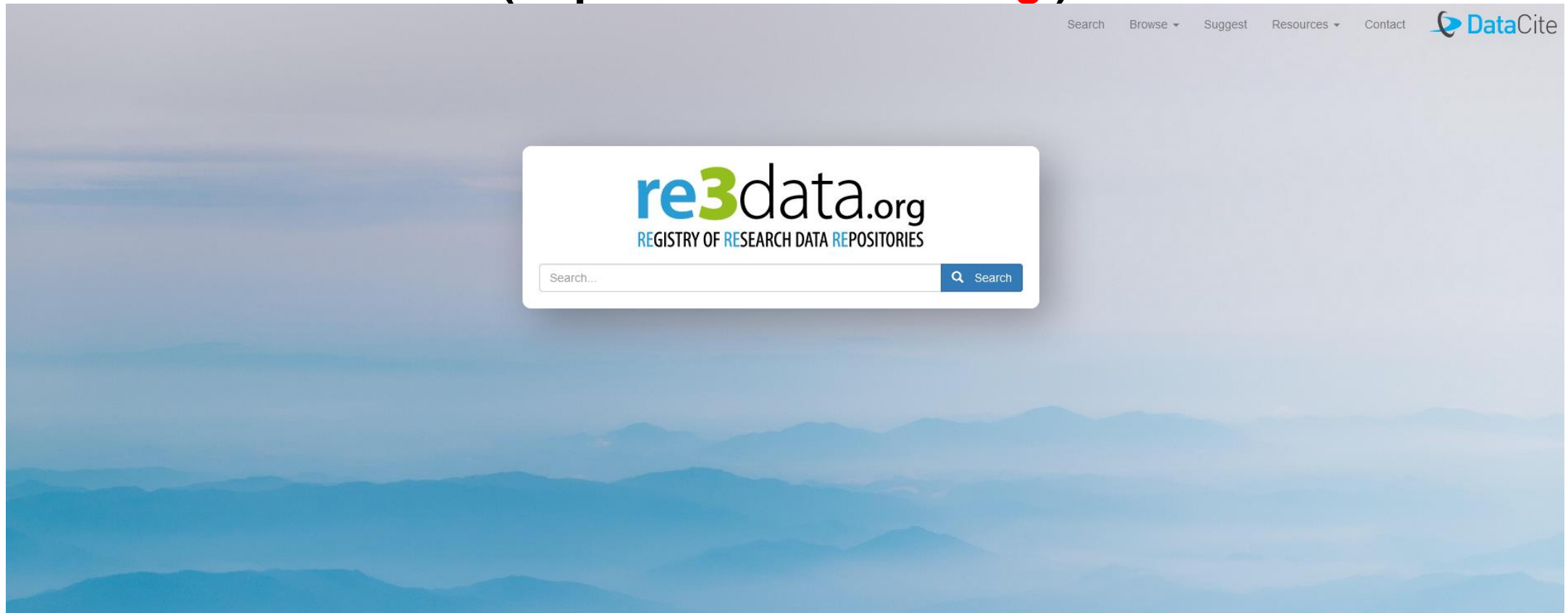
ICPSR

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Registry of Data Repositories

(<https://www.re3data.org/>)



Reviewing the subject classification in re3data

When looking for a suitable repository, the discipline(s) a repository caters to is one

From stakeholder survey and workshops to the new Conceptual Model for User Stories – a

Releasing version 3.1 of the re3data Metadata Schema

Data and classification of research data

Datasets Registrations in Repositories

- **Data journals** offer another route to making data more **discoverable and citable**. They are often based on data deposited in a data repository and involve some level of peer review.
 - Data in Brief
 - Journal of Open Humanities Data
 - Open Health Data
 - Journal of Open Psychology Data
 - Scientific Data



Business Plan for Your Article

1. **Preparing** your article
2. **Publishing** your article
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Monitoring Your Article



Monitoring your article

1. Publishers Research Dashboard
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- Early feedback on downloads, shares and citations
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- A comparison of the performance of your article with other people's articles



Different Types of Impacts

- Research impact
- Social impact
- Clinical impact
- Economic impact
- Environmental impact
- Impact on health and wellbeing
- Policy influence and change
- Technological developments

Different Types of Research Impacts & Metrics

- Social media metrics (Shares, likes, comments, Tweets)

- Number of Library holdings (WorldCat OCLC)
- Views on Slideshare
- Plays on YouTube
- Amazon book reviews

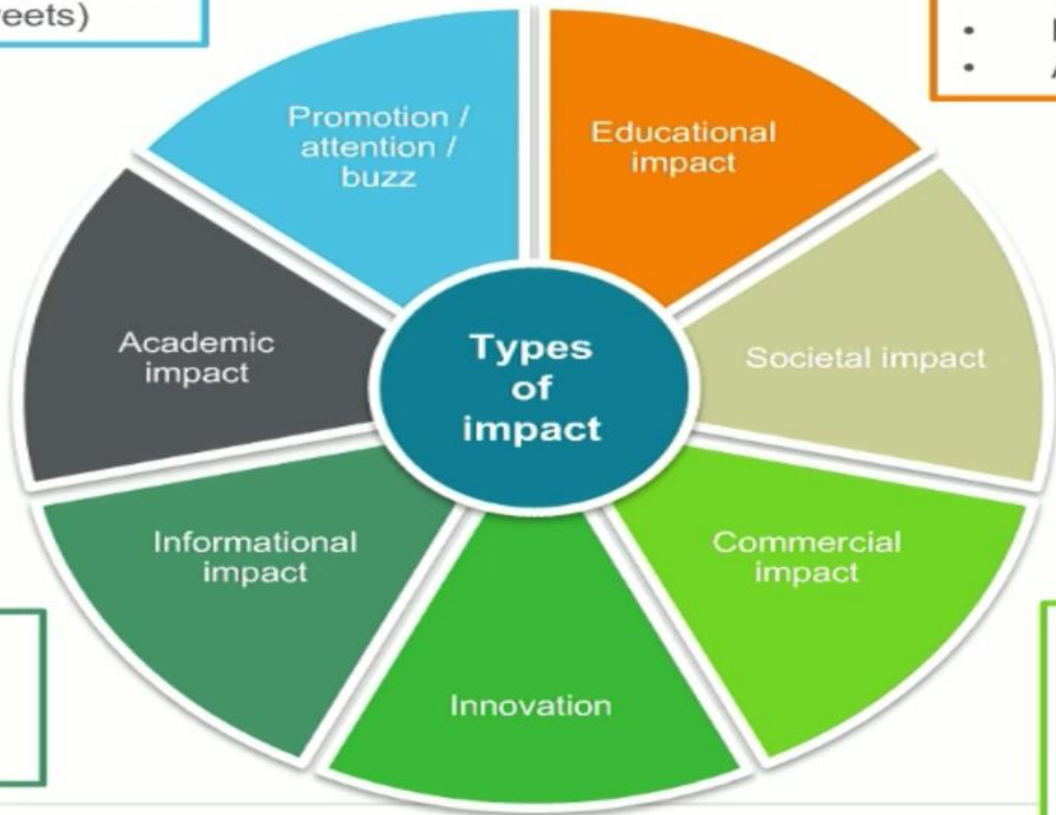
- Downloads from Github, RePEc, IRs
- Citations (field normalised, %iles, counts)
- Collaborators on Github
- Full text, pdf, html views on ScienceDirect, Figshare etc

- Clinical citations or Health policy/guideline citations
- Government policy citations

- Wikipedia citations
- Blog mentions
- StackExchange Q&A links
- News mentions

- Patent citations
- Academic: Industry partnerships
- Licenses
- Business consultancy activities

- Number of patents or patent families filed and granted



Metrics That Help You

Articles	Custom document set	Journals, Conference Papers, Books	Portfolio	Author, Editor, Reviewer	Institution or Group	Subject Area			
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Editor Board Authors		Outputs Funding awards		Usage Citations Audience Patents		Scholarly Activity Academic Opinion		Social Activity Media Activity	
Geographical spread		Scholarly output		CiteScore		Scholarly discussion		Social media mentions	
Collaboration network		Research data output		Impact Factor		Mendeley Counts		Media mentions	
Sector distribution		Conference output		FWCI, SJR, SNIP		Peer Review metrics		Medical guidelines	
<i>h-, g-, m-</i> indices		Funding sources		Citation Counts		Prizes and awards		Influence policies	
				Usage counts					
				Patent metrics					

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Robust Planning



Abundance of resources



Flexible governance



Reputation



Excellence in research



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