

Research issues in PRM, from the past to the future



Syracuse



FRANCO FRANCHIGNONI

MD, Physiatrist - Novara (Italy)

Life Fellow & Past President - UEMS PRM Board

Member of "Senate of Experts" - UEMS PRM Section & Board

Hon. Member - European Academy of Rehabilitation Medicine

& European Society of Physical and Rehabilitation Medicine

ISPRM Herman J. Flax Lifetime Achievement Award 2021



20° Euro-Mediterranean
PRM School 'Haim Ring' - 2025

Lecture outline

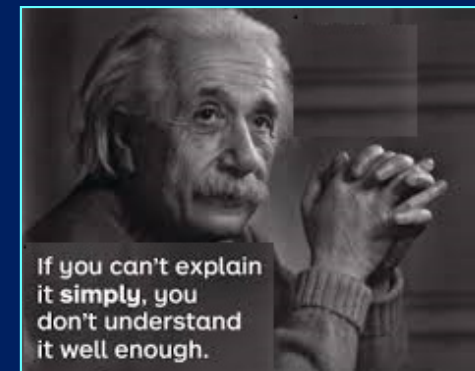
FIRST PART

1. What is the Scientific Research
2. The role of the research in clinical practice
3. The role of the research in professional life
4. Factors influencing clinical research



SECOND PART

1. Research and scientific writing
2. Tools for research
3. Key issues to consider before starting a research



THIRD PART

1. What's new, what's next (publishing companies, published papers per year, article turnaround times)
2. The vicious circle & hot issues

FOURTH PART

Take home messages

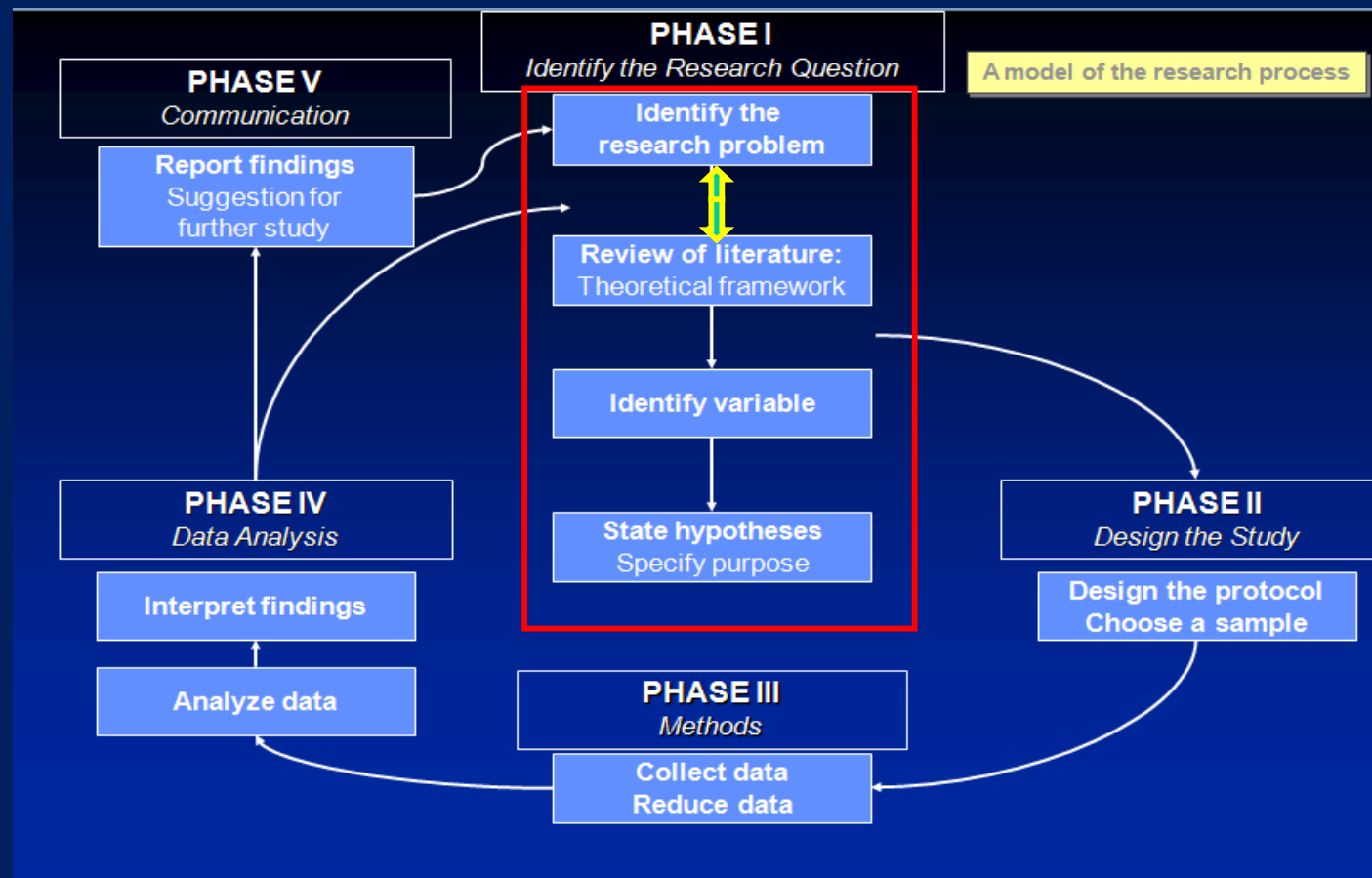


PART I

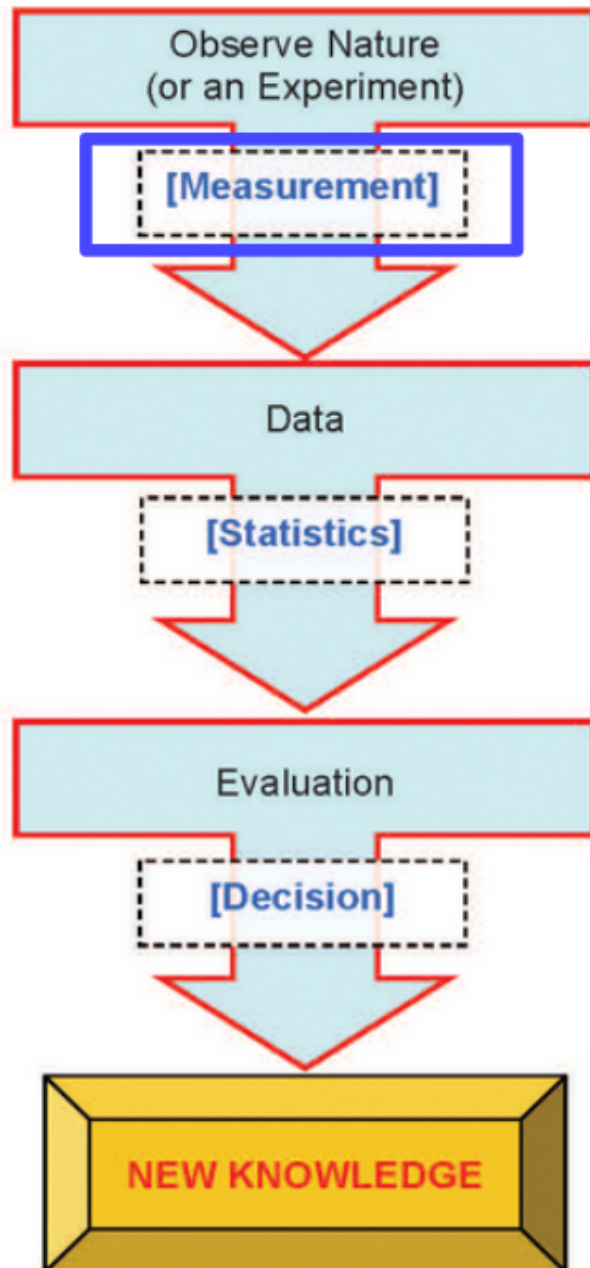
I/1 - What is the Scientific Research

Scientific research is a systematic and empirical investigation of phenomena of interest, involving observation, experimentation, and analysis to generate new knowledge, validate existing theories, or develop new technologies.

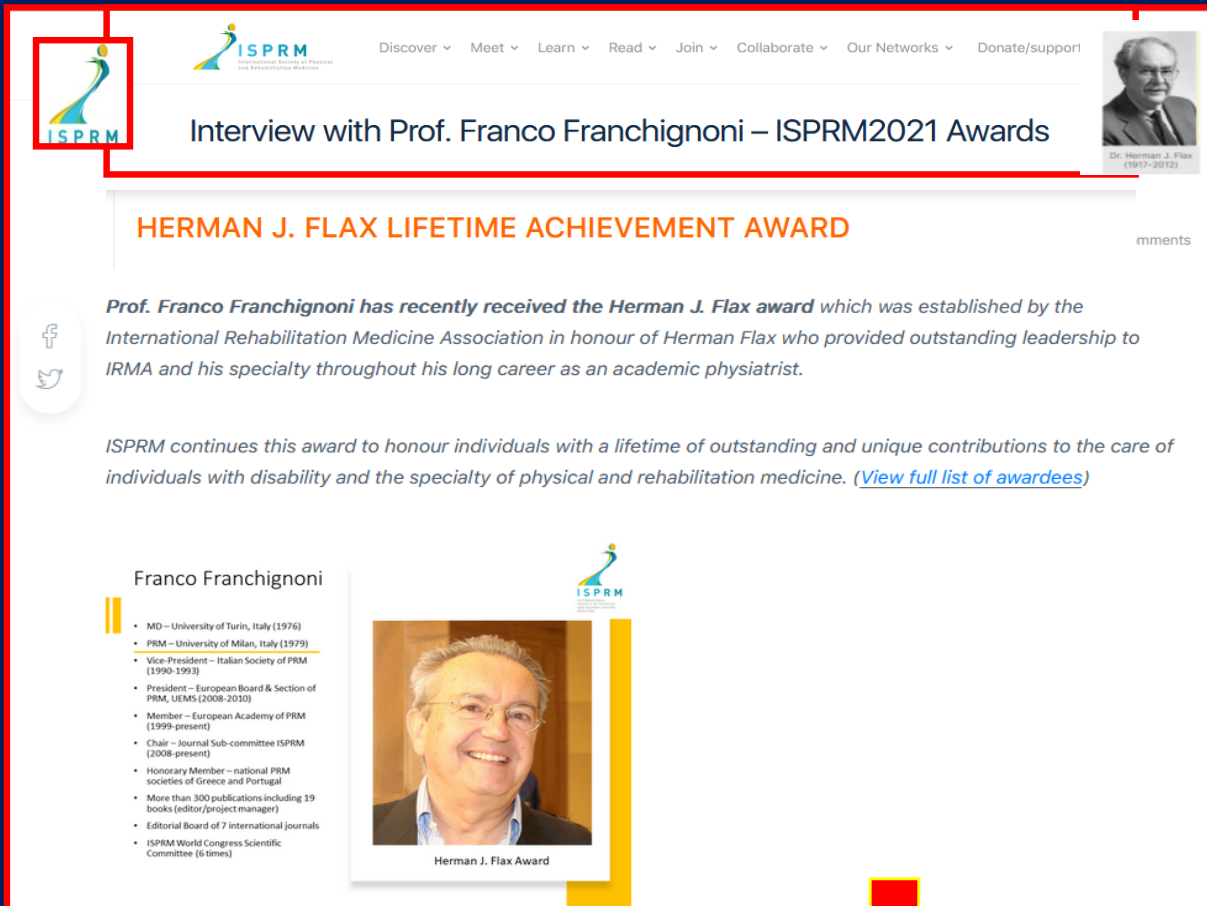
It's a dynamic process of inquiry that utilizes the scientific method to explore and understand the natural world, **also taking into account legal, social and professional considerations.**



I/2 - The role of the research in clinical practice



I/3 - The role of the research in professional life



The screenshot shows the ISPRM website with a navigation bar at the top. The main heading is "Interview with Prof. Franco Franchignoni – ISPRM2021 Awards". Below this, the "HERMAN J. FLAX LIFETIME ACHIEVEMENT AWARD" is highlighted. A paragraph states: "Prof. Franco Franchignoni has recently received the Herman J. Flax award which was established by the International Rehabilitation Medicine Association in honour of Herman Flax who provided outstanding leadership to IRMA and his specialty throughout his long career as an academic physiatrist." Below this, a quote from ISPRM continues: "ISPRM continues this award to honour individuals with a lifetime of outstanding and unique contributions to the care of individuals with disability and the specialty of physical and rehabilitation medicine. ([View full list of awardees](#))". On the left, a list of Franco Franchignoni's achievements is provided, including his roles at the University of Turin and Milan, and his presidency of the European Board & Section of PRM. A portrait of Herman J. Flax is shown with the caption "Herman J. Flax Award". A large red arrow points from the bottom of the screenshot towards the text below.

ISPRM

Discover ▾ Meet ▾ Learn ▾ Read ▾ Join ▾ Collaborate ▾ Our Networks ▾ Donate/support

Interview with Prof. Franco Franchignoni – ISPRM2021 Awards

HERMAN J. FLAX LIFETIME ACHIEVEMENT AWARD

Prof. Franco Franchignoni has recently received the Herman J. Flax award which was established by the International Rehabilitation Medicine Association in honour of Herman Flax who provided outstanding leadership to IRMA and his specialty throughout his long career as an academic physiatrist.

ISPRM continues this award to honour individuals with a lifetime of outstanding and unique contributions to the care of individuals with disability and the specialty of physical and rehabilitation medicine. ([View full list of awardees](#))

Franco Franchignoni

- MD – University of Turin, Italy (1976)
- PRM – University of Milan, Italy (1979)
- Vice-President – Italian Society of PRM (1990-1993)
- President – European Board & Section of PRM, UEMS (2008-2010)
- Member – European Academy of PRM (1999-present)
- Chair – Journal Sub-committee ISPRM (2008-present)
- Honorary Member – national PRM societies of Greece and Portugal
- More than 300 publications including 19 books (editor/project manager)
- Editorial Board of 7 international journals
- ISPRM World Congress Scientific Committee (6 times)

Herman J. Flax Award



"... a professional career can be compared with a Regency armchair (XVIII century) with four legs connected with a shaped X-form stretcher".

They are your clinical, research, educational & academic, and editorial activities in PRM field.



I/4 - Factors influencing clinical research

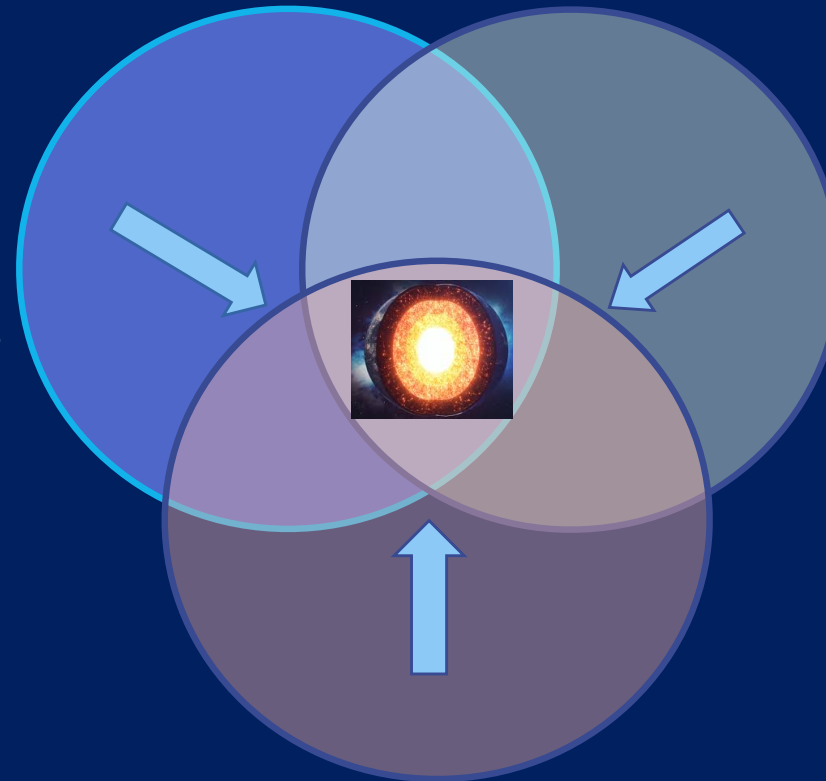
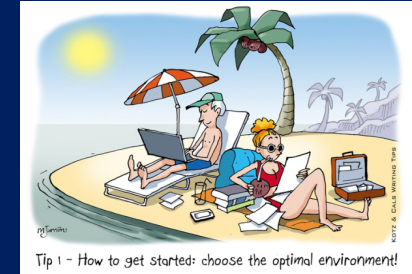
Personal factors

Ambition, talent,
passion, motivation...



Environmental factors

Facility, patients, funding...



Intermediate (core) factors

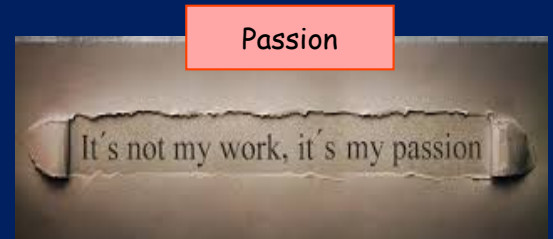
Mentor, research group, available time,
resources, **methodology**



Curiosity & interests



Enthusiasm



Personal factors (basic)



Talent



Resilience



Willingness



Ambition

VS.



Mentor



Facility, labs,
patients, funding ..

Environmental & intermediate factors



Mind and spirit have
no limits



Team work

The most important factors

The cardinal (moral) virtues



Prudence = Wisdom

Justice = Fairness

Courage = Fortitude Temperance = Self control



Commitment



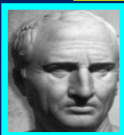
Reliability



Pursuit of Quality

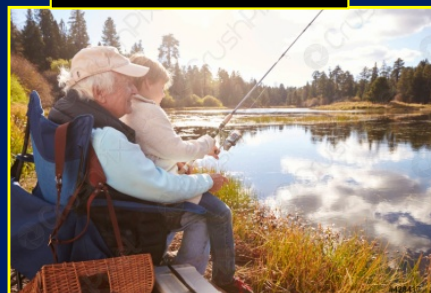


Ethical conduct



ESSE QUAM VIDERI
TO BE, RATHER
THAN TO SEEM

Methodology



PART II

II/1 - Research and scientific writing

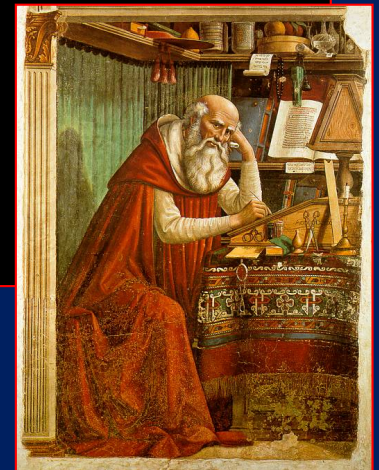
Scientific writing is a communication of **research** results to an intended audience and in an unbiased manner.

Three main reasons to care about writing research skills:

1. **Scientific writing is an invaluable mental discipline, that enhances clear thinking.** People who don't submit their work for peer review do very poor work (research is not been completed until the results have been published);
2. Making a subject intelligible to others means that **you understand and remember it better;**
3. **If you don't publish it, you haven't done it**
(In science, "the credit goes to the man who convinces the world...").



*"Reading makes a full man, conference a ready man,
and **writing an exact man**" (Sir Francis Bacon)*





WRITING IS AN **ART** (a skill at doing a specific thing, typically one acquired through **PRACTICE, EFFORT, and DISCIPLINE**)

SCIENTIFIC WRITING IS CLOSE TO BEING A **SCIENCE**, BECAUSE IT **REQUIRES KNOWLEDGE and SKILLS**, to produce well-structured documents that present information clearly and concisely.



One of the natural by-products of learning scientific writing skills is the **ability to critically read, understand and memorise the scientific literature.**

Moreover, the more you know about "how to write", the faster and more effectively you read and learn science.

Scientific writing is:

1. **Communication of knowledge** (research results).
2. A two-way process (**need to be understood** → **clarity** everywhere: clearly stated problem, methods, discussion, etc.).
3. Best style (not literature, nor poetry; **completeness** with **conciseness**: same sense but in the fewest possible words).

When you write a paper, please mind your goal:

- a. Study design must be appropriate for answering the **research question**;
- b. Results should focus on **answering that question**;
- c. Discussion and conclusion must be **relevant to the research question**.

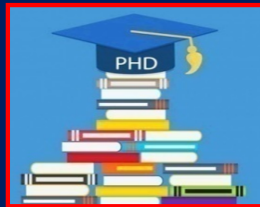


Violin Sonata

II/2 - Tools for research

PRINCIPLES AND PRACTICE OF CLINICAL RESEARCH

INTERNATIONAL DISTANCE-LEARNING CLINICAL RESEARCH TRAINING PROGRAM



FIFTH EDITION

REHABILITATION RESEARCH

Principles and Applications

Russell E. Carter
Jay Lubinsky

ELSEVIER

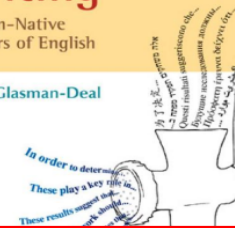
How to WRITE & PUBLISH a SCIENTIFIC PAPER

5th EDITION
Robert A. Day

Science Research Writing

For Non-Native
Speakers of English

Hilary Glasman-Deal



FOUNDATIONS OF CLINICAL RESEARCH

Applications to
Evidence-Based Practice

Fourth Edition

Leslie G. Portney, DPT, PhD, FAPTA
Dean Emerita
MGH Institute of Health Professions
School of Health and Rehabilitation Sciences
Boston, Massachusetts

PubMed

 **Cochrane**
Rehabilitation, Functioning,
and Disability

 Clarivate
Web of Science™

 **Amedeo**
The Medical Literature Guide

 **Google**
Scholar

 **PEDro**
Physiotherapy Evidence Database

 **ELSEVIER**
Scopus

**AMA
MANUAL
OF STYLE**

Web resources



Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals

Updated April 2025

- I. About the Recommendations
 - A. Purpose of the Recommendations
 - B. Who Should Use the Recommendations?
 - C. History of the Recommendations
- II. Roles and Responsibilities of Authors, Contributors, Reviewers, Editors, Publishers, and Owners
 - A. Defining the Role of Authors and Contributors
 - 1. Why Authorship Matters
- H. Sponsorship and Partnerships
 - I. Electronic Publishing
 - J. Advertising
 - K. Journals and the Media
 - L. Clinical Trials
 - 1. Registration
 - 2. Data Sharing
- IV. Manuscript Preparation and Submission



EDITORIAL COCHRANE REHABILITATION CORNER 5th COCHRANE REHABILITATION METHODOLOGICAL MEETING

Open access

European Journal of Physical and Rehabilitation Medicine 2024 February;60(1):130-4

DOI: 10.23736/S1973-9087.23.08338-7

Improving the quality of evidence production in rehabilitation. Results of the 5th Cochrane Rehabilitation Methodological Meeting

Stefano NEGRINI ^{1,2}, Carlotta KIEKENS ², William M. LEVACK ³, Thorsten MEYER-FEIL ⁴, Chiara ARIENTI ⁵, Pierre CÔTÉ ⁶, Participants in the 5th Cochrane Rehabilitation Methodological Meeting

EDITORIAL METHODOLOGICAL PROBLEMS IN REHABILITATION RESEARCH. REPORT FROM A COCHRANE REHABILITATION METHODOLOGY MEETING

Free access

European Journal of Physical and Rehabilitation Medicine 2019 June;55(3):319-21

Methodological problems in rehabilitation research. Report from a cochrane rehabilitation methodology meeting

William M. LEVACK ^{*}, Antti MALMIVAARA, Thorsten MEYER, Stefano NEGRINI

HTML PDF

COPE Committee on Publication Ethics

Promoting integrity in research and its publication

II/3 - Key issues to consider before starting a research



- A. Originality → Research question
- B. The study protocol
- C. The reporting guidelines
- D. Choosing the "right" journal
- E. Take care of the layout (Instruction for authors) & English style

II/3A – Originality, identify knowledge gap and formulate the research question



The research question represents the **core of the paper**. Bear in mind that the 'research story' you will tell must be:

- **Feasible** (adequate/ affordable/ manageable) **F**
- **Interesting** (new understanding) **I**
- **Novel** (confirms/ refutes/ extends/ provides...) **N**
- **Ethical** **E**
- **Relevant** (to scientific knowledge, clinical & health policy, future research, etc.) **R**

When defining the question/ aim /hypothesis it is useful to think in terms of "**PICO model**":

P

P = Patient, Problem, Population (How would you describe a group of patients similar to you? What are the most important characteristics of the patients?)

I

I = Intervention, Prognostic Factor, Exposure (What main intervention are you considering? What do you want to do with this patient? What is the main alternative being considered?)

C

C = Comparison (Can be none or placebo.) (What is the main alternative to compare with the intervention? Are you trying to decide between two drugs, a drug and no medication or placebo, or two diagnostic tests?)

O

O = Outcome (What are you trying to accomplish, measure, improve or affect? Outcomes may be disease-oriented or patient-oriented? **T**ime frame?).

TYPE OF QUESTION

Etiology

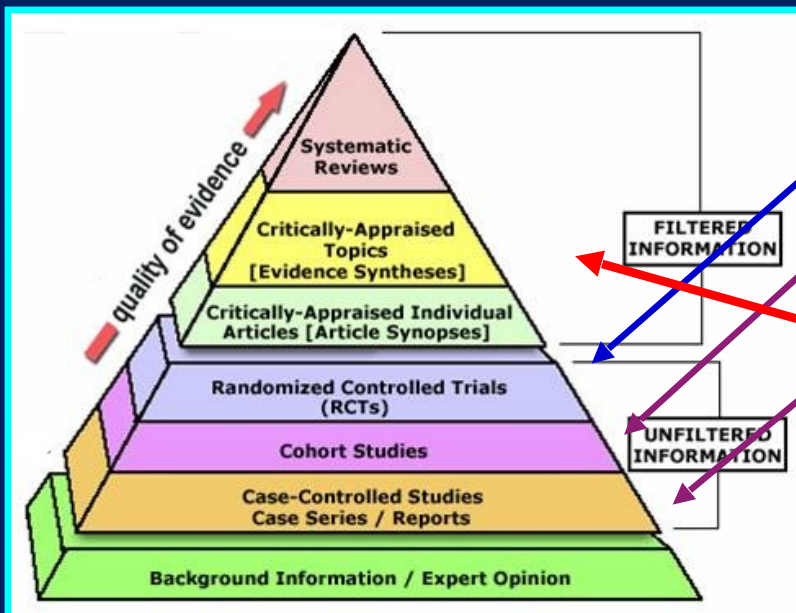
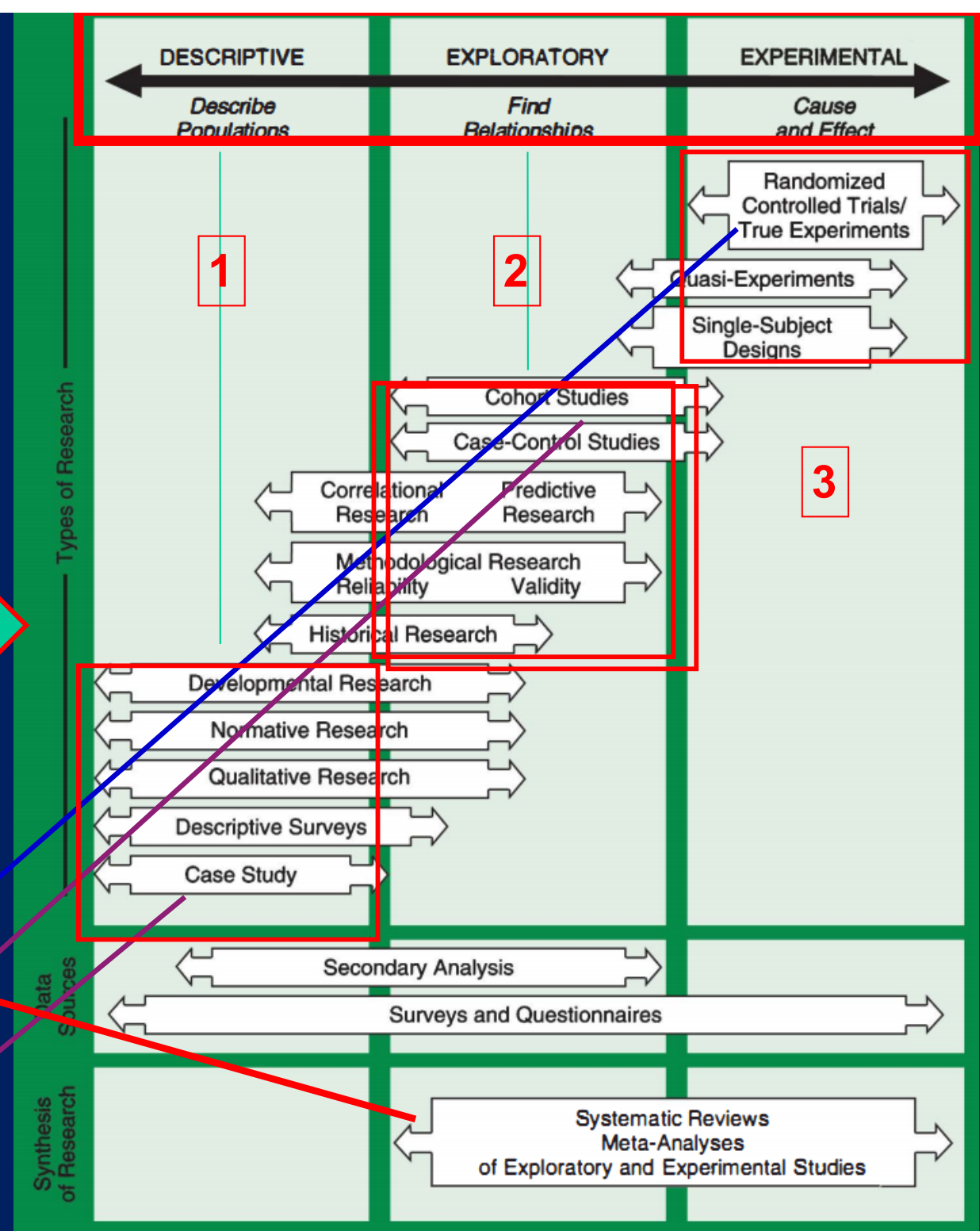
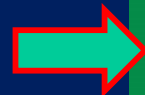
Prognosis

Diagnosis

Therapy



For each question
a research design



Web of Science

Search for existing information (literature review)

Web of Science will undergo scheduled maintenance from November 13, 2019 at 11:00 GMT to November 14, 2019 at 11:00 GMT. During this time, access may be intermittent. We apologize for any inconvenience.

Select a database Web of Science Core Collection

Basic Search

Author Search ^{BETA}

Cited Reference Search

Advanced Search

Scopus

Document search

☒ Documents ☐ Authors ☐

PEDro
Physiotherapy Evidence Database

Advanced search

Simple search

Consumer search

English

☒ PEDro Top 5 Trials
2014-2019

☒ Frequently asked questions

Welcome to PEDro

PEDro is the Physiotherapy Evidence Database, a free database of over 10,000 trials, systematic reviews and clinical practice guidelines in physiotherapy. PEDro provides the citation details, the abstract and where possible. All trials on PEDro are independently assessed for quality. Quality ratings are used to quickly guide users to trials that are more likely to be sufficient information to guide clinical practice. PEDro is produced by the Musculoskeletal Health, School of Public Health at the University of Sydney and the Neuroscience Research Australia (NeuRA).



Cochrane Rehabilitation

Trusted evidence.
Informed decisions.
Better health.

About us

Evidence

Resources

News & Events

Tweets by
@CochraneRehab

@CochraneReha
@CochraneReha
An #CochraneRehabilitation
interactive session at
#MCPRM19

Cochrane Rehabilitation
Newsletter Special Issue
October 2019

NIH U.S. National Library of Medicine

PRODUCTS AND SERVICES

RESOURCES FOR YOU

PubMed Tutorial

Home > Learning Resources > PubMed Online Training

Introduction

PubMed Overview
What's in PubMed?
Navigating PubMed
Quiz

Understanding the Vocabulary
Building the Search
Managing the Results
Saving the Search
Getting the Articles
Beyond PubMed
My NCBI
Review

PubMed Tutorial

Note: A new PubMed, being developed at PubMed Labs
Technical Bulletin for details.

Introduction

PubMed is a free resource that provides access to MEDLINE
the fields of medicine, nursing, dentistry, veterinary medicine

Goals and Objectives

By the end of this course, you should be able to:

- Understand PubMed's scope and content.
- Understand how the Medical Subject Headings (MeSH)

NCBI PubMed A service of the National Library of Medicine and the National Institutes of Health

My NCBI [Sign In] [Register]

PubMed outcome measure AND (shoulder OR elbow)

RSS Save search Advanced

Show additional filters Clear all

Article types Clinical Trial

✓ Validation Studies More ...

Text availability Abstract available Free full text available Full text available

Display Settings: [x] Summary, 20 per page, Sorted by Recently Added

Results: 1 to 20 of 84

Filters activated: Validation Studies Clear all

1. The early development phases of a European Organisation for Research and Treatment of Cancer (EORTC) module to assess patient reported outcomes (PROs) in women undergoing breast reconstruction.

Thomson HJ, Winters ZE, Brandberg Y, Didier F, Blazeby JM, Mills J. Eur J Cancer. 2013 Mar;49(5):1018-25. Epub 2012 Oct 1. PMID: 23063353 [PubMed - indexed for MEDLINE]

Related citations

Additional filters

- ✓ Article types
- ✓ Text availability
- ✓ Publication dates
- ✓ Species
- ✓ Languages
- ✓ Sex
- ✓ Subjects
- ✓ Journal categories
- ✓ Ages
- ✓ Search fields

Show

Link to papers with similar key words



Using psychometric techniques to improve the Balance Evaluation System's Test: the mini-BESTest [PDF] nih.gov

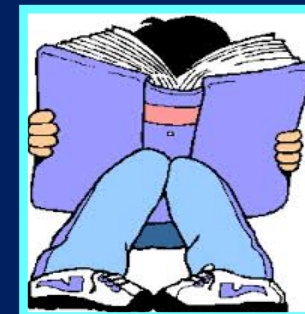
F Franchignoni, F Horak, M Godi... - ... : official journal of ... , 2010 - pmc.ncbi.nlm.nih.gov

... Based on this analysis, we present a new, mini-BESTest that ... In conclusion, the new mini-BESTest for dynamic balance ... The potential interest of the mini-BESTest in clinical settings is ...

☆ Salva Cita Citato da 1247

Link to full-text

Link to papers that cited this paper



1. Your Amedeo Subscriptions

- Rehabilitation Medicine

2. Modify the journal selection

Select a subscription and click *Modify Journal*

Subscription:

Rehabilitation Medicine ☒

Modify Journal Selection

3. Free subscription to additional Amedeo

Click *Additional Newsletters*.

Additional Newsletter

Stay up-to-date on your research topics

1. ☐ Am Fam Physician
2. ☒ Am J Phys Med Rehabil
3. ☐ Am J Psychiatry
4. ☐ Am J Public Health
5. ☐ Am J Sports Med
6. ☒ Arch Phys Med Rehabil
7. ☒ BMJ
8. ☐ Br J Gen Pract
9. ☐ Brain Inj
10. ☒ Clin Rehabil
11. ☒ Disabil Rehabil
12. ☒ Eur J Phys Rehabil Med
13. ☐ Heart Dis
14. ☐ Int J Geriatr Psychiatry
15. ☐ J Am Acad Dermatol
16. ☐ J Am Geriatr Soc
17. ☐ J Bone Joint Surg Br
18. ☐ J Burn Care Rehabil
19. ☐ J Cardiopulm Rehabil
20. ☒ J Neurol
21. ☐ J Occup Rehabil
22. ☒ J Rehabil Med
23. ☒ JAMA
24. ☒ Lancet
25. ☐ Pediatr Rehabil
26. ☐ Phys Occup Ther Pediatr
27. ☒ Phys Ther

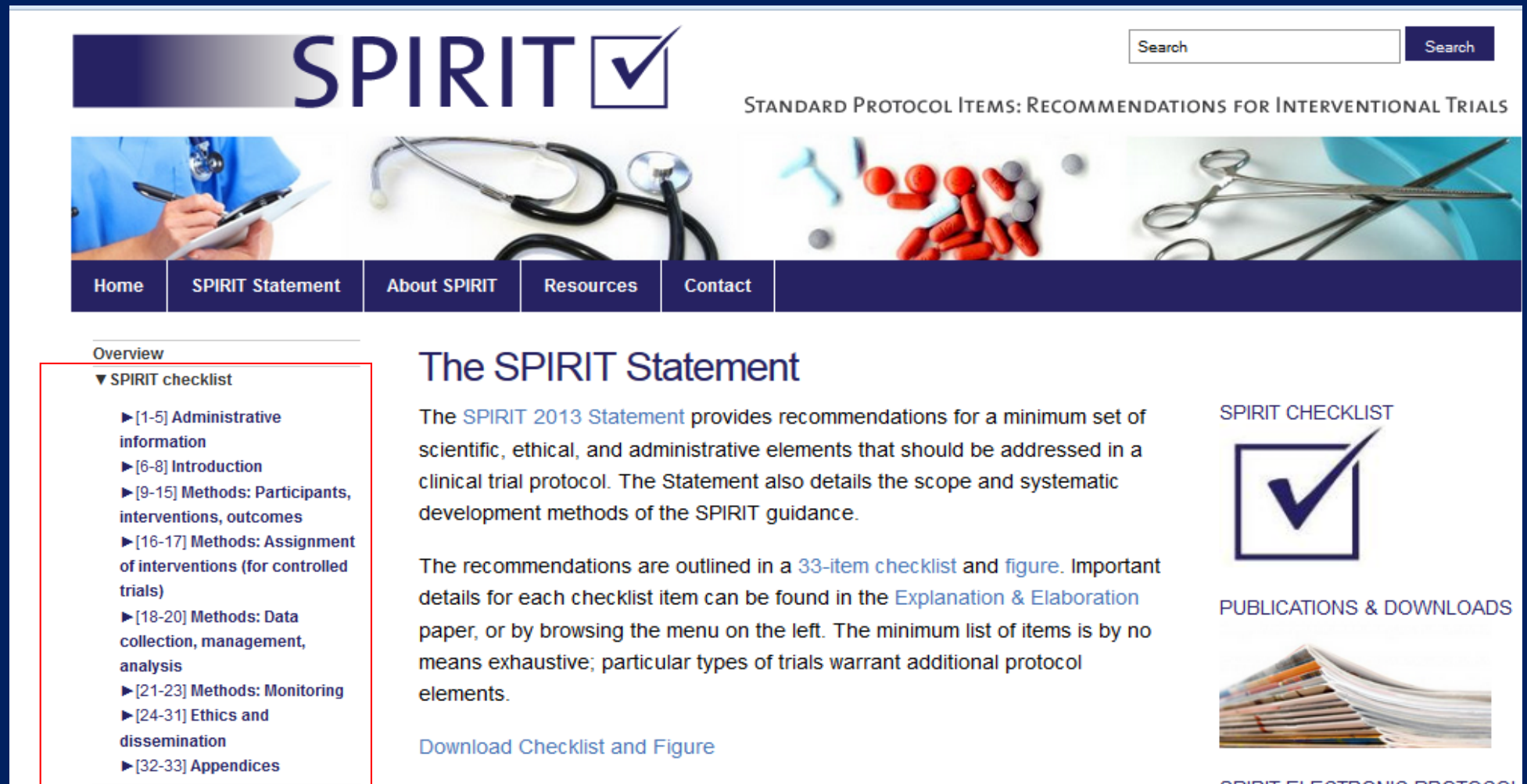
14. Men's Health
15. Dermatology
16. Ophthalmology
17. Otorhinolaryngology
18. Surgery
19. Dentistry
20. Emergency Medicine
21. Intensive Care
22. Rehabilitation Medicine
23. Diagnostic Procedures
24. Nutrition
25. Substance Abuse
26. Others Metabolism

Your Amedeo Recommendation Code

Share it with your colleagues and students to help them stay updated:

bbaffed5239a087

II/3B - The study protocol



The screenshot shows the SPIRIT website homepage. At the top, the SPIRIT logo is displayed with a checkmark icon, followed by the text "STANDARD PROTOCOL ITEMS: RECOMMENDATIONS FOR INTERVENTIONAL TRIALS". Below this is a navigation bar with links: Home, SPIRIT Statement, About SPIRIT, Resources, and Contact. A search bar is located in the top right corner. The main content area features a large image of medical supplies (stethoscope, pills, scissors) and a sidebar on the left titled "Overview" with a "SPIRIT checklist" section. The checklist items are: [1-5] Administrative information, [6-8] Introduction, [9-15] Methods: Participants, interventions, outcomes, [16-17] Methods: Assignment of interventions (for controlled trials), [18-20] Methods: Data collection, management, analysis, [21-23] Methods: Monitoring, [24-31] Ethics and dissemination, and [32-33] Appendices. The main text area is titled "The SPIRIT Statement" and describes the purpose of the SPIRIT 2013 Statement. It mentions that the recommendations are outlined in a 33-item checklist and figure, and that the minimum list of items is by no means exhaustive. A link "Download Checklist and Figure" is provided. On the right, there is a "SPIRIT CHECKLIST" section with a checkmark icon and a "PUBLICATIONS & DOWNLOADS" section with an image of a stack of papers.

SPIRIT ✓

STANDARD PROTOCOL ITEMS: RECOMMENDATIONS FOR INTERVENTIONAL TRIALS

Home | SPIRIT Statement | About SPIRIT | Resources | Contact

Overview

▼ SPIRIT checklist

- ▶ [1-5] Administrative information
- ▶ [6-8] Introduction
- ▶ [9-15] Methods: Participants, interventions, outcomes
- ▶ [16-17] Methods: Assignment of interventions (for controlled trials)
- ▶ [18-20] Methods: Data collection, management, analysis
- ▶ [21-23] Methods: Monitoring
- ▶ [24-31] Ethics and dissemination
- ▶ [32-33] Appendices

The SPIRIT Statement

The [SPIRIT 2013 Statement](#) provides recommendations for a minimum set of scientific, ethical, and administrative elements that should be addressed in a clinical trial protocol. The Statement also details the scope and systematic development methods of the SPIRIT guidance.

The recommendations are outlined in a [33-item checklist](#) and [figure](#). Important details for each checklist item can be found in the [Explanation & Elaboration](#) paper, or by browsing the menu on the left. The minimum list of items is by no means exhaustive; particular types of trials warrant additional protocol elements.

[Download Checklist and Figure](#)

SPIRIT CHECKLIST

PUBLICATIONS & DOWNLOADS

➡ The **protocol** of a clinical trial serves as the foundation for study planning, conduct, reporting and appraisal.

The 33-item SPIRIT checklist applies to protocols for all clinical trial, and focuses on **content** (rather than format).

SPIRIT 2013 Statement: Defining Standard Protocol Items for Clinical Trials

SPIRIT 2025 checklist of items to address in a randomized trial protocol*

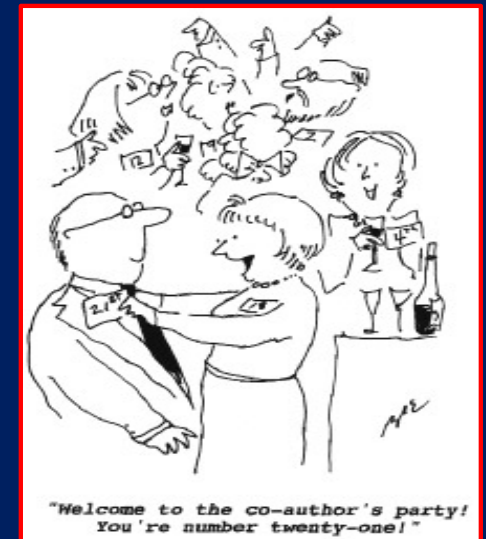
Section / Topic	No	SPIRIT 2025 checklist item description	Reported on page no.
Administrative information			
Title and structured summary	1a	Title stating the trial design, population, and interventions, with identification as a protocol	
	1b	Structured summary of trial design and methods, including items from the World Health Organization Trial Registration Data Set	
Protocol version	2	Version date and identifier	
Roles and responsibilities	3a	Names, affiliations, and roles of protocol contributors	
	3b	Name and contact information for the trial sponsor	
	3c	Role of trial sponsor and funders in design, conduct, analysis, and reporting of trial; including any authority over these activities	
	3d	Composition, roles, and responsibilities of the coordinating site, steering committee, endpoint adjudication committee, data management team, and other individuals or groups overseeing the trial, if applicable	
Open science			
Trial registration	4	Name of trial registry, identifying number (with URL), and date of registration. If not yet registered, name of intended registry	
Protocol and statistical analysis plan	5	Where the trial protocol and statistical analysis plan can be accessed	
Data sharing	6	Where and how the individual de-identified participant data (including data dictionary), statistical code, and any other materials will be accessible	
Funding and conflicts of interest	7a	Sources of funding and other support (e.g., supply of drugs)	
	7b	Financial and other conflicts of interest for principal investigators and steering committee members	
Dissemination policy	8	Plans to communicate trial results to participants, healthcare professionals, the public, and other relevant groups (e.g., reporting in trial registry, plain language summary, publication)	
Introduction			
Background and rationale	9a	Scientific background and rationale, including summary of relevant studies (published and unpublished) examining benefits and harms for each intervention	
	9b	Explanation for choice of comparator	
Objectives	10	Specific objectives related to benefits and harms	
Methods: Patient and public involvement, trial design			
Patient and public involvement	11	Details of, or plans for, patient or public involvement in the design, conduct, and reporting of the trial	
Trial design	12	Description of trial design including type of trial (e.g., parallel group, crossover), allocation ratio, and framework (e.g., superiority, equivalence, non-inferiority, exploratory)	

The number and order of authors should be discussed and agreed upon as early as possible



The **ICMJE** (<http://www.icmje.org>) recommends that authorship be based on the following 4 criteria:

- **Substantial contributions** to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work (no ghost/ guest/ gift authorships!);
- **Drafting** the work or **revising** it critically for important intellectual content;
- **Final approval** of the version to be published;
- **Agreement to be accountable for all aspects of the work** in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.



SUBMIT STUDIES

[Why Should I Register and Submit Results?](#)

[FDAAA 801 Requirements](#)

[How to Apply for an Account](#)

[How to Register Your Study](#)

[How to Edit Your Study Record](#)

[How to Submit Your Results](#)

[Frequently Asked Questions](#)

[Support Materials](#)

[Training Materials](#)

Do you or someone you know want to participate in a clinical study? See [information for patients and families](#).

How to Register Your Study

Contents

- [Steps for Registering a Clinical Study](#)
- [Considerations for Observational Studies and Expanded Access Programs](#)
- [ClinicalTrials.gov Protocol Information Review Process](#)
- [Required Registration Updates](#)

Steps for Registering a Clinical Study



"I already wrote the paper.
That's why it's so hard to
get the right data."

Related Pages

- [Protocol Registration and Results System \(PRS\)](#)

WHO (ICMJE) – ClinicalTrials.gov Cross Reference

WHO Trial Registration Data Set (v 1.2.1) ¹	ClinicalTrials.gov Data Element(s) ²
1. Primary Registry and Trial Identifying Number	ClinicalTrials.gov Identifier (NCT Number) - <i>assigned by system</i>
2. Date of Registration in Primary Registry	<i>Generated by system</i>
3. Secondary Identifying Numbers	Organization's Unique Protocol ID Secondary IDs
4. Source(s) of Monetary or Material Support	Sponsor , Collaborators
5. Primary Sponsor	Sponsor
6. Secondary Sponsor(s)	Collaborators
7. Contact for Public Queries	Facility Contact OR Central Contact
8. Contact for Scientific Queries	Overall Study Officials
9. Public Title	Brief Title


◦ See the [Protocol Data Element Definitions](#) for descriptions and examples of the information to

II/3C - The reporting guidelines


ti Aiuto

work | Enha... X +

Cerca


**equator**
network

Enhancing the **QUALity** and
Transparency Of health Research

 EQUATOR resources in
[Portuguese](#) | [Spanish](#)


Home Library Toolkits Courses & events News Blog About us Contact


Essential resources for writing and publishing health research





Library for health research reporting


The Library contains a comprehensive searchable database of reporting guidelines and also links to other resources relevant to research reporting.

 **Search for reporting guidelines**

 **Not sure which reporting guideline to use?**

 **Reporting guidelines under development**


 **Visit the library for more resources**



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	Extensions

[See all 685 reporting guidelines](#)



Guidelines for Reporting Health Research
A USER'S MANUAL

Edited by David Moher, Douglas G. Altman, Kenneth F. Schulz, Iweta Simera and Elizabeth Wager

New book edited by the EQUATOR team
[Guidelines for Reporting Health Research: a User's Manual](#)

RESEARCH METHODS & REPORTING

Better reporting of interventions: template for intervention description and replication (TIDieR) checklist and guide

The **intervention description** has key features (e.g. duration, dose or intensity, mode of delivery, essential processes, and monitoring) that can all influence **replicability** and **efficacy**.

The 12-item TIDieR checklist is an extension of the CONSORT 2010 statement (item 5) and the SPIRIT 2013 statement (item 11).

The TIDieR (Template for Intervention Description and Replication) Checklist*:

Information to include when describing an intervention and the location of the information

Item number	Item	Where located **	
		Primary paper (page or appendix number)	Other [†] (details)
1.	BRIEF NAME Provide the name or a phrase that describes the intervention.	_____	_____
2.	WHY Describe any rationale, theory, or goal of the elements essential to the intervention.	_____	_____
3.	WHAT Materials: Describe any physical or informational materials used in the intervention, including those provided to participants or used in intervention delivery or in training of intervention providers. Provide information on where the materials can be accessed (e.g. online appendix, URL).	_____	_____
4.	Procedures: Describe each of the procedures, activities, and/or processes used in the intervention, including any enabling or support activities.	_____	_____
5.	WHO PROVIDED For each category of intervention provider (e.g. psychologist, nursing assistant), describe their expertise, background and any specific training given.	_____	_____
6.	HOW Describe the modes of delivery (e.g. face-to-face or by some other mechanism, such as internet or telephone) of the intervention and whether it was provided individually or in a group.	_____	_____
7.	WHERE Describe the type(s) of location(s) where the intervention occurred, including any necessary infrastructure or relevant features.	_____	_____

- WHEN and HOW MUCH**
8. Describe the number of times the intervention was delivered, the number of sessions, their schedule, and duration.
- TAILORING**
9. If the intervention was planned to be tailored, describe when, and how.
- MODIFICATIONS**
- 10.* If the intervention was modified during delivery, describe when, and how).
- HOW WELL**
11. Planned: If intervention adherence or fidelity was monitored, describe strategies were used to maintain or improve adherence or fidelity.
- 12.* Actual: If intervention adherence or fidelity was monitored, describe intervention was delivered as planned.

Strengthening the reporting of observational studies in epidemiology (STROBE) statement: guidelines for reporting observational studies

Poor reporting of research hampers assessment and makes it less useful. An international group of methodologists, researchers, and journal editors sets out guidelines to improve reports of observational studies



STROBE Statement—checklist of items that should be included in reports of observational studies

	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract (b) Provide in the abstract an informative and balanced summary of what was done and what was found
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported
Objectives	3	State specific objectives, including any prespecified hypotheses
Methods		
Study design	4	Present key elements of study design early in the paper
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection
Participants	6	(a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up Case-control study—Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls Cross-sectional study—Give the eligibility criteria, and the sources and methods of selection of participants (b) Cohort study—For matched studies, give matching criteria and number of exposed and unexposed Case-control study—For matched studies, give matching criteria and the number of controls per case
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable
Data sources/measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there

CONSORT 2010 Statement: updated guidelines for reporting parallel group randomised trials

Kenneth F Schulz,¹ Douglas G Altman,² David Moher,³ for the CONSORT Group



Section/topic	No	CONSORT 2025 checklist item description
Title and abstract		
Title and structured abstract	1a	Identification as a randomised trial
	1b	Structured summary of the trial design, methods, results, and conclusions
Open science		
Trial registration	2	Name of trial registry, identifying number (with URL) and date of registration
Protocol and statistical analysis plan	3	Where the trial protocol and statistical analysis plan can be accessed
Data sharing	4	Where and how the individual de-identified participant data (including data dictionary), statistical code and any other materials can be accessed
Funding and conflicts of interest	5a	Sources of funding and other support (eg, supply of drugs), and role of funders in the design, conduct, analysis and reporting of the trial
	5b	Financial and other conflicts of interest of the manuscript authors
Introduction		
Background and rationale	6	Scientific background and rationale
Objectives	7	Specific objectives related to benefits and harms
Methods		
Patient and public involvement	8	Details of patient or public involvement in the design, conduct and reporting of the trial
Trial design	9	Description of trial design including type of trial (eg, parallel group, crossover), allocation ratio, and framework (eg, superiority, equivalence, non-inferiority, exploratory)
Changes to trial protocol	10	Important changes to the trial after it commenced including any outcomes or analyses that were not prespecified, with reason
Trial setting	11	Settings (eg, community, hospital) and locations (eg, countries, sites) where the trial was conducted
Eligibility criteria	12a	Eligibility criteria for participants
	12b	If applicable, eligibility criteria for sites and for individuals delivering the interventions (eg, surgeons, physiotherapists)
Intervention and comparator	13	Intervention and comparator with sufficient details to allow replication. If relevant, where additional materials describing the intervention and comparator (eg, intervention manual) can be accessed
Outcomes	14	Prespecified primary and secondary outcomes, including the specific measurement variable (eg, systolic blood pressure), analysis metric (eg, change from baseline, final value, time to event), method of aggregation (eg, median, proportion), and time point for each outcome
Harms	15	How harms were defined and assessed (eg, systematically, non-systematically)
Sample size	16a	How sample size was determined, including all assumptions supporting the sample size calculation
	16b	Explanation of any interim analyses and stopping guidelines
Randomisation:		
Sequence generation	17a	Who generated the random allocation sequence and the method used
	17b	Type of randomisation and details of any restriction (eg, stratification, blocking and block size)

Checklists

Enrollment

Assessed for eligibility (n=)

Excluded (n=)

- Not meeting inclusion criteria (n=)
- Declined to participate (n=)
- Other reasons (n=)

Randomized (n=)

CONSORT Flow Diagram

Allocation

Allocated to intervention (n=)

- Received allocated intervention (n=)
- Did not receive allocated intervention (give reasons) (n=)

Allocated to intervention (n=)

- Received allocated intervention (n=)
- Did not receive allocated intervention (give reasons) (n=)

Follow-Up

Lost to follow-up (give reasons) (n=)

Discontinued intervention (give reasons) (n=)

Lost to follow-up (give reasons) (n=)

Discontinued intervention (give reasons) (n=)

Analysis

Analysed (n=)

- Excluded from analysis (give reasons) (n=)

Analysed (n=)

- Excluded from analysis (give reasons) (n=)

Toolkits

This section provides practical help and resources to support you in:



Writing research



Selecting the appropriate reporting guideline



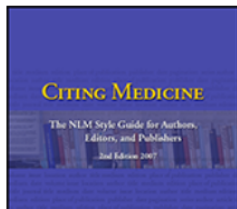
Peer reviewing research



How to develop a reporting guideline



Using guidelines in your journal



Citing Medicine, 2nd edition

The NLM Style Guide for Authors, Editors, and Publishers

Karen Patrias; Dan Wendling, Technical Editor.

► [Contributor Information and Affiliations](#)

Bethesda (MD): [National Library of Medicine \(US\)](#); 2007-.

Search for reporting guidelines



Browse for reporting guidelines by selecting one or more of these drop-downs:

Study type

Please select... ▼

Clinical area

Rehabilitation medicine ▼

Section of report

Please select... ▼

Or search with free text

Search Reporting Guidelines

We recommend searching for reporting guidelines in English

[Start again](#) | [Help](#)

Displaying 8 reporting guidelines found.

Key reporting guidelines, shaded green, are displayed first. [Show the most recently added records first.](#)



[Developing the TIDieR-Rehab checklist: a modified Delphi process to extend the Template for Intervention Description and Replication \(TIDieR\) for rehabilitation intervention reporting](#)



[Systematic Development of Standards for Mixed Methods Reporting in Rehabilitation Health Sciences Research](#)



[Recommendations for the development, implementation, and reporting of control](#)

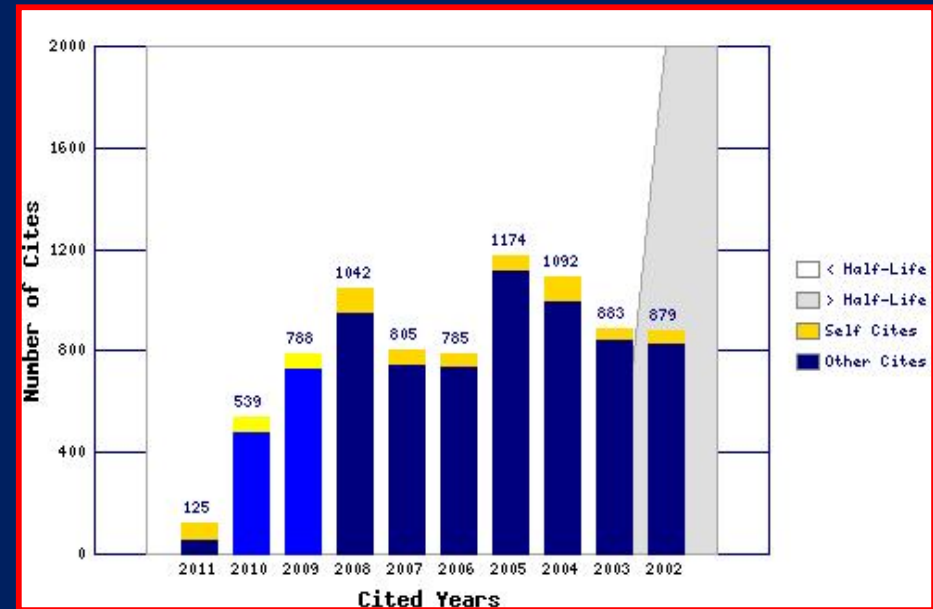
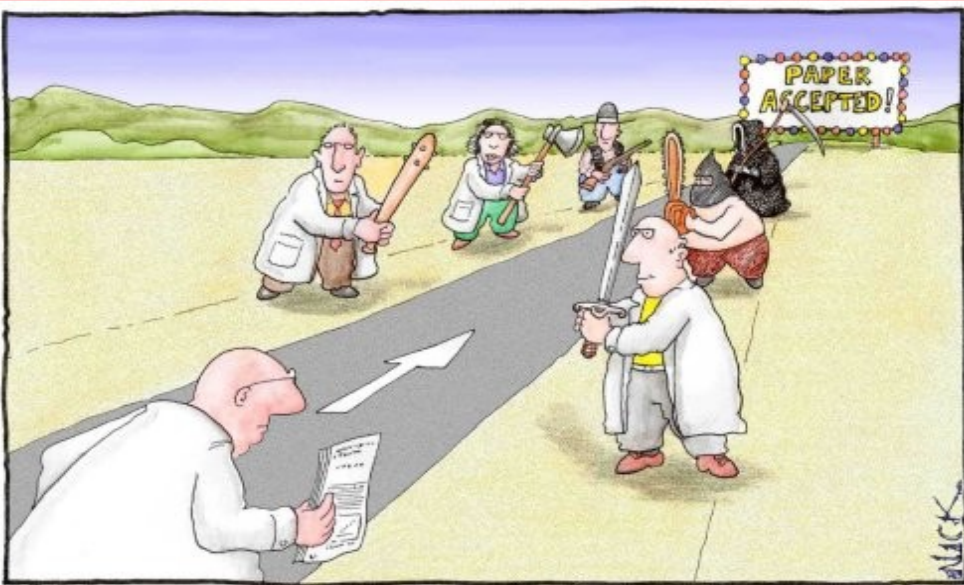
II/3D – Choosing the ‘right’ journal

Journal performance and reputation



QUALITY (peer review,
expert opinion/consensus...)

SCIENTIFIC “IMPACT”
(Bibliometric indexes)



Expert opinion & consensus

J Rehabil Med 2008; 40: 492–494

LETTER TO THE EDITOR

PUBLISHING IN PHYSICAL AND REHABILITATION MEDICINE: A EUROPEAN POINT OF VIEW

Sir,

We read with interest the paper by Frontera et al. (1) regarding the main issues relevant to the publication of research in Physical and Rehabilitation Medicine (PRM), including the peer review process, and the role of specialty journals. This kind of paper helps the target audience to understand better the mission and “philosophy” of these core journals in PRM and informs readers about which journals are most suitable for

rehabilitation interventions, from the acute community integration, etc.) (4, 5).

The Committee (many of whose members are staff of one or more international journals) is based on expert opinion corroborated by a series of indices and evaluations, which it might be useful to have here. The peer assessment reviewed and corroborated the following:

- the indexing of the 3 main international biomedical field (in our specific category)



EUR J PHYS REHABIL MED 2013;49:711-4

Publishing in Physical and Rehabilitation Medicine. An update on the European point of view

F. FRANCHIGNONI ¹, L. ÖZÇAKAR ², X. MICHAÏL ³, G. VANDERSTRAETEN ^{4, 5}
N. CHRISTODOULOU ^{6, 7}, R. FRISCHKNECHT ^{8, 9}

EUR J PHYS REHABIL MED 2011;47:455-62

Bibliometric indicators: a snapshot of the scientific productivity of leading European PRM researchers

F. FRANCHIGNONI ¹, S. MUÑOZ LASA ², L. ÖZÇAKAR ³, M. OTTONELLO ⁴

Choosing a scholarly journal during manuscript submission: the way how it rings true for physiatrists

L. ÖZÇAKAR ¹, F. FRANCHIGNONI ², M. KARA ³, S. MUÑOZ LASA ⁴

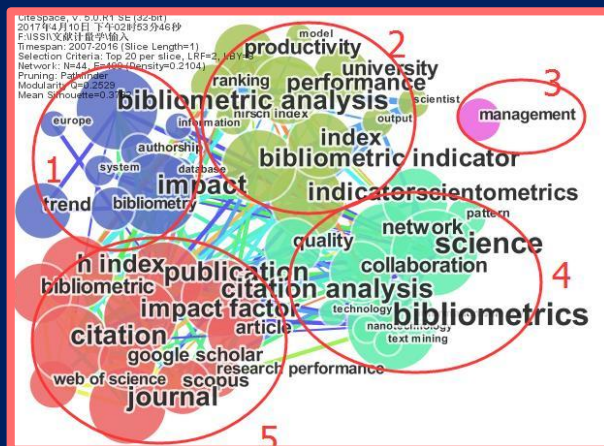
Bibliometric indices

J Rehabil Med 2011; 43: 471–476

SPECIAL REPORT

BIBLIOMETRIC INDICATORS AND CORE JOURNALS IN PHYSICAL AND REHABILITATION MEDICINE

Franco Franchignoni, MD¹ and Susana Muñoz Lasa, MD²



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Online version at <http://www.minervamedica.it>

European Journal of Physical and Rehabilitation Medicine 2018 October;54(5):792-6
DOI: 10.23736/S1973-9087.18.05462-X

SPECIAL ARTICLE

Basic bibliometrics for dummies and others: an overview of some journal-level indicators in physical and rehabilitation medicine

Franco FRANCHIGNONI¹*, Levent ÖZÇAKAR², Stefano NEGRINI^{3,4}

TABLE I.—Profile of the performance of 22 PRM Journals (simultaneously indexed in the three databases of Journal Citation Reports®, Medicine - Rehabilitation; Scopus®, Rehabilitation; and PubMed®), according to six widely used bibliometric indicators.

Journal (in alphabetical order)	Bibliometric indicators					
	JIF ^β	CiteScore ^β	SJR ^β ,#	AI ^β ,#	EF ^β ,#	SNIP ^β ,#
American Journal of Physical Medicine and Rehabilitation	**	**	**	**	***	**
Archives of Physical Medicine and Rehabilitation	***	***	***	***	***	***
Brazilian Journal of Physical Therapy	*	***	***	*	**	***
Clinical Rehabilitation	***	***	***	***	***	***
Developmental Neurorehabilitation	*	**	**	*	*	**
Disability and Rehabilitation	**	***	***	**	***	***
European Journal of Physical and Rehabilitation Medicine	***	***	***	**	**	***
International Journal of Rehabilitation Research	*	**	**	*	*	*
Journal of Back and Musculoskeletal Rehabilitation	*	**	*	*	*	*
Journal of Geriatric Physical Therapy	***	**	**	*	*	**
Journal of Hand Therapy	*	**	**	*	*	**
Journal of Head Trauma Rehabilitation	***	***	***	***	**	***
Journal of NeuroEngineering and Rehabilitation	***	***	***	***	***	***
Journal of Neurologic Physical Therapy	***	***	***	*	*	***
Journal of Rehabilitation Medicine	**	***	***	**	***	***
Journal of Sport Rehabilitation	**	**	***	**	*	*
NeuroRehabilitation	**	***	***	**	**	**
Neurorehabilitation and Neural Repair	***	***	***	***	***	***
Physical and Occupational Therapy in Pediatrics	**	*	**	*	*	**
PM and R	**	**	***	**	***	**
Prosthetics and Orthotics International	*	**	**	**	*	**
Topics in Stroke Rehabilitation	**	***	**	**	**	**

*** First quartile; ** Second quartile; * Under median

Bibliometric indices

InCites Journal Citation Reports

Clarivate Analytics

JCR Data ⁱ						Eigenfactor [®] Metrics ⁱ	
Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor [®] Score	Article Influence [®] Score
4086	4.035	4.700	1.194	98	5.4	0.01060	1.476

Clarivate

Web of Science[™] Search

Search > Results for Franchignoni F* ... > Analyze Results: Franchign... > Citation Report: Franchignoni F* (Author)

Citation Report

Q Franchignoni F* (Author) Analyze

Publications

133
Total

From 1980 to 2022

Citing Articles

2,729 Analyze
Total
2,656
Without self

Times Cited

3,221
Total
24.22
Average per item

Back to results
SRCTITLE (archives AND of AND physical AND medicine AND rehabilitation)

Searches Focus on Different Content

Embase[®]

Embase focuses on the full text indexing of biomedical content, bringing insights through structured indexing of content



Scopus

Scopus focuses on abstracts and citations, enabling navigation of the published literature

Scopus

Scopus & Embase

CiteScore metrics for journals :

14,075 document results

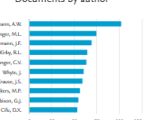


Click on cards below to see additional data.

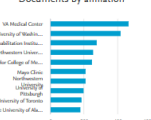
Documents per year by source



Documents by author



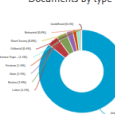
Documents by affiliation



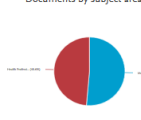
Documents by country/territory



Documents by type



Documents by subject area



Documents by funding sponsor



The Impact Factor (IF)

The IF is a measure of the frequency with which the 'average article' in a journal has been cited in a particular period.

The 2024 Journal Citation Reports IF of a journal X is calculated by dividing:

- the number of all source journals' 2024 citations of articles that journal X published in 2022 and 2023
- divided by
- the total number of source items that journal X published in 2022 & 2023.

N.B. - IFs are based entirely on citations appearing within two years of a paper being published. There are **field effects at the discipline level**.

Thus, **comparing some bibliometric indices (e.g. IF) of different disciplines (and even sub-fields) would be unfair.**

JCR - Bibliometric indices (Rehabilitation)

2022 – SCIE N= 68; Q1: N = 17
2024 – New N= 174; Q1: N = 46

REHABILITATION JCR Year: 2024						
Journal name	ISSN	eISSN	Category	Edition	Total Citations	2024 JIF
<input type="checkbox"/> Journal of Physiotherapy	1836-9553	1836-9561	REHABILITATION	SCIE	3,342	9.4
<input type="checkbox"/> Autism in Adulthood	2573-9581	2573-959X	REHABILITATION	SSCI	1,924	6.8
<input type="checkbox"/> JOURNAL OF ORTHOPAEDIC & SPORTS PHYSICAL THERAPY	0190-6011	1938-1344	REHABILITATION	SCIE	10,490	5.8
<input type="checkbox"/> IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING	1534-4320	1558-0210	REHABILITATION	SCIE	16,219	5.2
<input type="checkbox"/> Journal of NeuroEngineering and Rehabilitation	N/A	1743-0003	REHABILITATION	SCIE	10,023	5.2
<input type="checkbox"/> Annals of Physical and Rehabilitation Medicine	1877-0657	1877-0665	REHABILITATION	SCIE	3,435	4.6
<input type="checkbox"/> EXCEPTIONAL CHILDREN	0014-4029	2163-5560	REHABILITATION	SSCI	2,932	4.3
<input type="checkbox"/> Journal of Neurologic Physical Therapy	1557-0576	1557-0584	REHABILITATION	SCIE		
<input type="checkbox"/> RESEARCH AND PRACTICE FOR PERSONS WITH SEVERE DISABILITIES	1540-7969	2169-2408	REHABILITATION	SSCI		
<input type="checkbox"/> ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION	0003-9993	1532-821X	REHABILITATION	SCIE		
<input type="checkbox"/> NEUROREHABILITATION AND NEURAL REPAIR	1545-9683	1552-6844	REHABILITATION	SCIE		
<input type="checkbox"/> European Journal of Physical and Rehabilitation Medicine	1973-9087	1973-9095	REHABILITATION	SCIE		
<input type="checkbox"/> Physical Therapy	0031-9023	1538-6724	REHABILITATION	SCIE		

Academia & Government

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JUNE 20, 2024

Journal Citation Reports 2024: Simplifying journal evaluation

JOURNAL CITATION REPORTS PRODUCT UPDATE RESEARCH INTEGRITY

Kate Heaney
Senior Manager, Product Management

Trusted journal intelligence
Category-first approach
Unified ranking
Enhancing transparency and inclusivity

Consolidated categories and unified rankings enable you to explore and compare journals more easily.

Today we announce the [2024 release](#) of the annual Journal Citation Reports™ (JCR™), which marks the completion of a series of significant changes we've implemented in recent years. This blog will take you through what to expect in the application.

Last year's release expanded the Journal Impact Factor™ (JIF™) to all



SCImago

&country=all&year=2008&on



SJR Journal Rankings on Rehab



Powered by
SCOPUS™

SJR SCImago
Journal & Country
Rank

The SJR
indicator is an
open access
journal metric

1	Human Reproduction	journal	2.147 Q1	264	298	890	12815	4893	783	5.20	43.00	56.29	
2	Annals of Physical and Rehabilitation Medicine	journal	1.472 Q1	68	57	305	2221	1151	200	3.68	38.96	47.02	
3	Neurorehabilitation and Neural Repair	journal	1.322 Q1	133	82	240	4236	1098	237	3.91	51.66	50.37	
4	IEEE Transactions on Neural Systems and Rehabilitation Engineering	journal	1.310 Q1	172	416	1043	20653	6924	1042	6.22	49.65	35.07	
5	Journal of NeuroEngineering and Rehabilitation	journal	1.287 Q1	129	228	489	13647	3192	487	5.50	59.86	41.85	
6	Journal of Cardiopulmonary Rehabilitation and Prevention	journal	1.233 Q1	80	90	260	2928	662	230	2.27	32.53	44.18	
7	JMIR Serious Games	journal	1.144 Q1	45	93	302	5383	1648	301	4.57	57.88	46.55	
8	Archives of Physical Medicine and Rehabilitation	journal	1.136 Q1	225	345	900	13371	3153	744	3.27	38.76	50.19	
9	Clinical Rehabilitation	journal	1.133 Q1	131	140	414	6392	1588	394	3.60	45.66	51.29	
10	Supportive Care in Cancer	journal	1.109 Q1	143	829	2605	31608	8306	2430	2.95	38.13	58.45	
11	Journal of Occupational Rehabilitation	journal	0.998 Q1	89	127	202	6794	687	194	2.99	53.50	61.02	
12	European Journal of Physical and Rehabilitation Medicine	journal	0.975 Q1	79	117	320	5528	1053	284	3.27	47.25	51.80	
13	Arthroscopy, Sports Medicine, and Rehabilitation	journal	0.973 Q1	21	184	687	6682	1723	686	2.61	36.32	19.63	
14	Disability and Rehabilitation	journal	0.972 Q1	140	906	1714	48014	5531	1688	3.03	53.00	64.63	
15	Journal of Neurologic Physical Therapy	journal	0.956 Q1	67	42	104	1786	274	86	2.95	42.52	62.34	

◆ 1. Impact Factor (IF)

Definition: Measures the average number of citations received per paper published in a journal during the preceding two years.

⚠ Drawbacks:

1. Journal-Level, Not Article-Level:

- It reflects the average citation rate, not the quality or impact of individual articles. A few highly cited papers can skew the average.

2. Citation Window Is Narrow:

- A two-year window misses citations that accumulate over longer periods, disadvantaging fields with slower citation dynamics.

3. Field Differences:

- Different academic disciplines have varying citation behaviors, making IF comparisons across fields misleading.

4. Susceptible to Manipulation:

- Some journals encourage self-citations or strategic publication of review articles to boost IF.

5. Does Not Reflect Quality:

- Citations can occur for negative reasons (e.g., to criticize flawed research), and a high IF doesn't guarantee rigorous peer review.

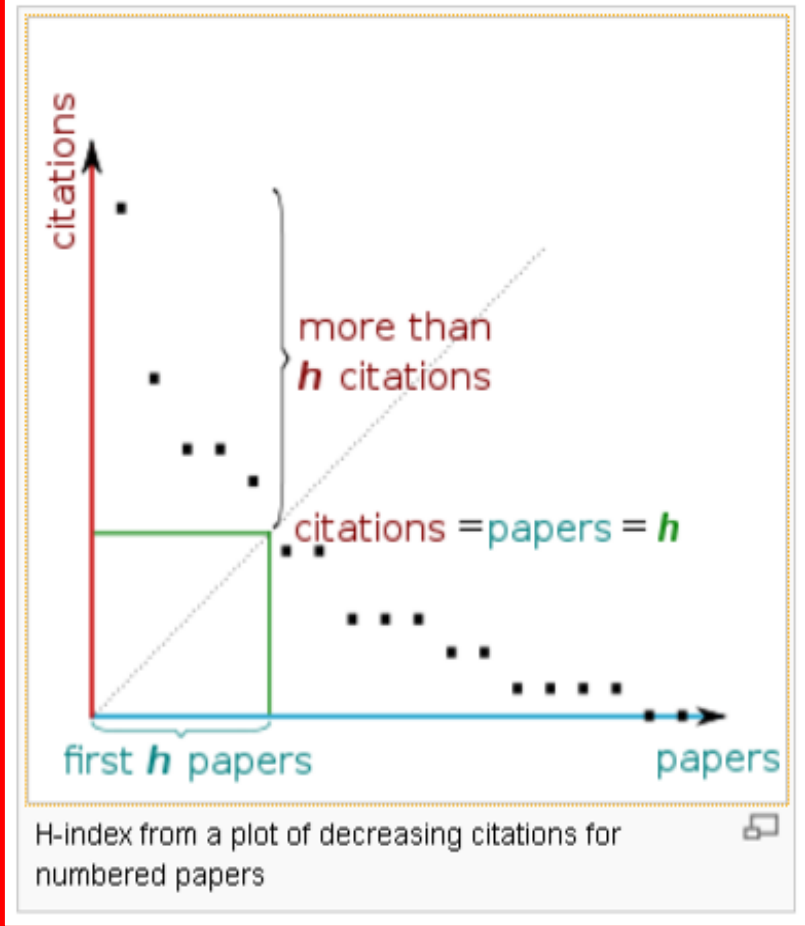
6. Encourages "Impact Factor Gaming":

- Editors and institutions may prioritize publication in high-IF journals over scientific integrity or relevance.

The Hirsch index (h-index)

The index is based on the distribution of **citations** received by a given journal's (or researcher's) publications, in a given period.

A journal
(or a researcher) with an **index of $h = 10$** has published 10 papers each of which has been cited by others at least 10 times.



h index	h =number of papers with citation number $>h$
m quotient	$m=h/n$, where n =number of years since first publication
g index	g =the number such that the top g papers have g^2 citations cumulatively
e index	$e=(\text{total number of citations in } h \text{ core} - h^2)^{1/2}$
h^c index	h^c =number of papers with citation score (S^c) greater than h^c $S^c=4 * \text{citation count}/n$, where n =number of years since publication
i10 index	i10=number of papers with citation count >10

H-index modifications

♦ 2. h-index

Definition: A scholar has an h-index of h if they have h papers that have each been cited at least h times.

⚠ Drawbacks:

1. Ignores Highly Cited Papers Beyond h :

- Once a paper meets the threshold, additional citations don't increase the h-index, undervaluing standout publications.

2. Favors Senior Researchers:

- The h-index increases with career length, disadvantaging early-career researchers.

3. Field Dependence:

- Like IF, it varies significantly by discipline and is not normalized, making cross-field comparisons unfair.

4. Not Sensitive to Authorship Contributions:

- Does not account for whether the researcher is the lead or co-author, or the significance of their contribution.

5. Doesn't Decrease:

- The h-index can never go down, so it doesn't reflect declining performance or retractions.

6. Can Be Manipulated:

- Self-citations or strategic co-authorships (e.g., "citation circles") can artificially inflate the metric.

Google Scholar

Categorie > Health & Medical Sciences > Rehabilitation Therapy ▾

	Publicazione	<u>h5-index</u>	<u>Mediana h5</u>
1.	IEEE Transactions on Neural Systems and Rehabilitation Engineering	<u>79</u>	111
2.	Journal of NeuroEngineering and Rehabilitation	<u>67</u>	96
3.	Disability and Rehabilitation	<u>67</u>	87
4.	Archives of Physical Medicine and Rehabilitation	<u>62</u>	77
5.	Disability and Rehabilitation: Assistive Technology		
6.	Neurorehabilitation and Neural Repair		
7.	Clinical Rehabilitation		
8.	European Journal of Physical and Rehabilitation Medicine		
9.	Annals of Physical and Rehabilitation Medicine		
10.	American Journal of Physical Medicine & Rehabilitation		
11.	Neuropsychological Rehabilitation		
12.	PM&R		
13.	Journal of rehabilitation medicine		
14.	Spinal Cord		
15.	NeuroRehabilitation		

Google Scholar



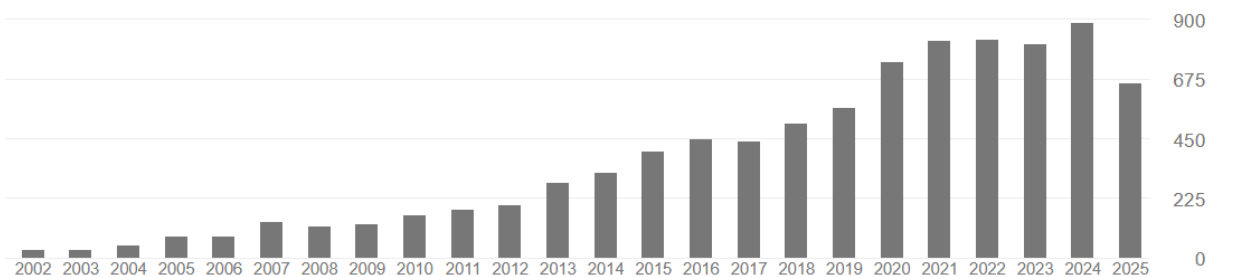
Franco Franchignoni

Physiatrist, Novara, Italy
Email verificata su icsmaugeri.it
[Physical & Rehabilitation M...](#)

SEGUI

ARTICOLI CITATA DA ACCESSO PUBBLICO COAUTORI

	Tutte	Dal 2020
Citazioni	9101	4739
Indice H	42	29
i10-index	107	72



Weighing vs. counting

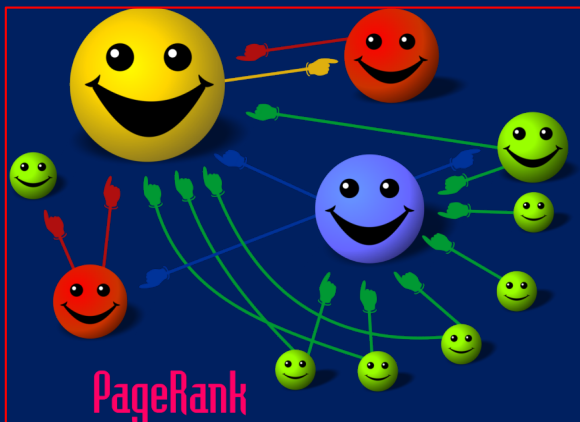
(expert opinion vs. bibliometric indexes;
which bibliometric index should I use?)



The statement "citations should be weighed not just counted" means that a citation's value should depend on factors like the prestige of the citing source and the time elapsed, rather than just the raw number of times an article is cited. This "weighted citation" approach aims to better measure a work's influence and prestige, whereas simple counts can be misleading. For example, a single citation from a highly prestigious journal may be weighted more heavily than multiple citations from less impactful journals.

How weighting can be applied

- **Quality of citing journal:** A citation's weight can be increased if it comes from a highly-regarded or high-impact journal, like the Eigenfactor method which considers the journal that did the citing.
- **Time interval:** A citation can be given more weight if it is recent, or less weight if it is from a long time ago.
- **Context and content:** Text mining can analyze the context in which a citation is made, such as how often it's mentioned or whether it's favorable, to assign a more nuanced weight.
- **Frequency:** A paper cited frequently in the in-text references of a single article might be weighted more heavily than one that is just listed in the bibliography.



Goodhart's Law: "When a measure becomes a target, it ceases to be a good measure"

PART III

III/1 - What's new, what's next

The perfect storm

Researcher

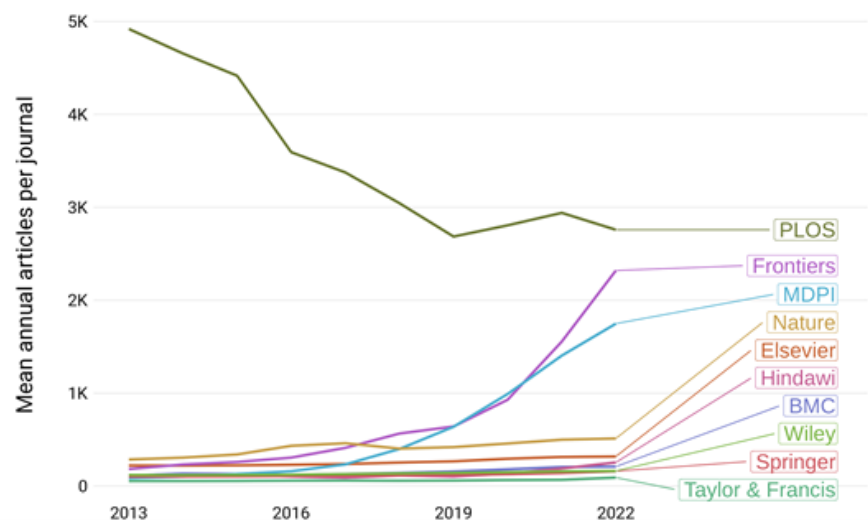
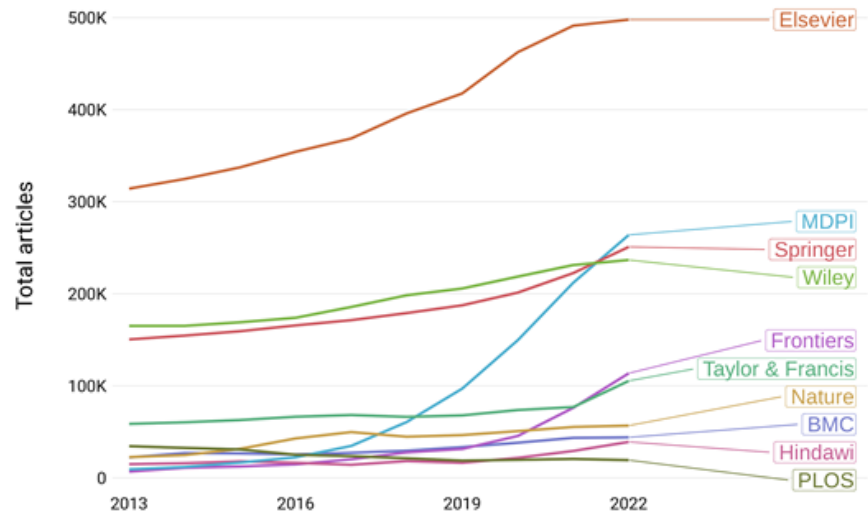


Publisher



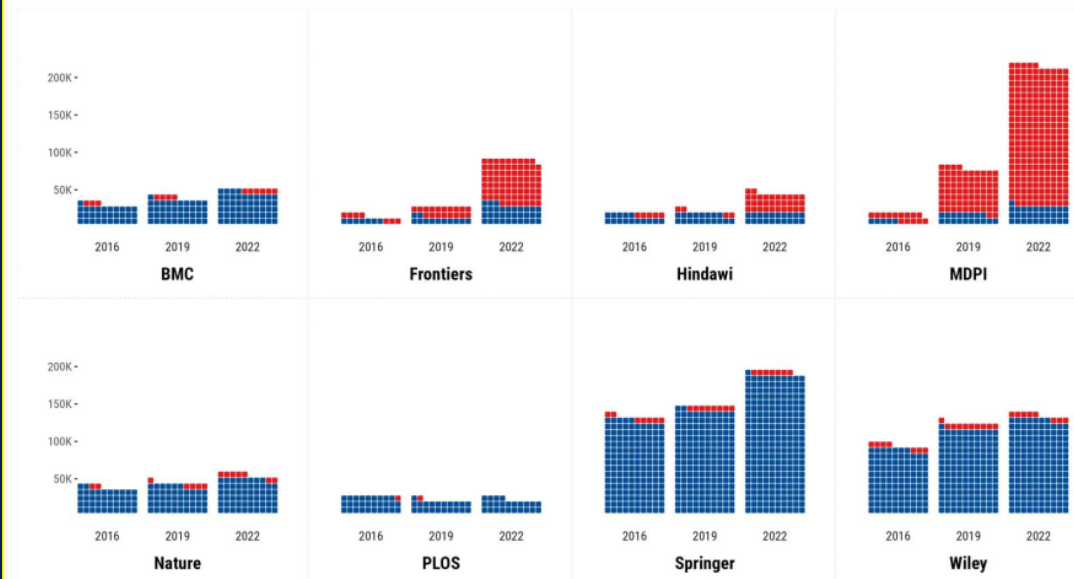
Alice: "Would you tell me, please, which way I ought to go from here?"
"That depends a good deal on where you want to get to." said the Cheshire Cat.
Lewis Carroll "Alice's Adventures in Wonderland"

Publishing companies and n. of published papers per year

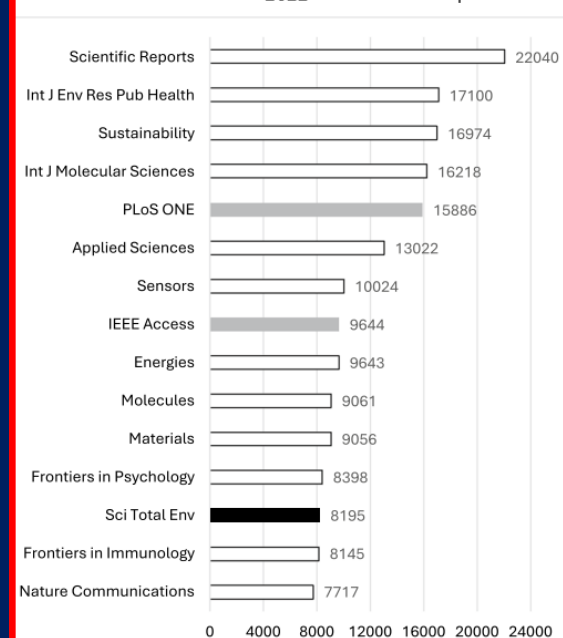


Number of papers published in **regular** vs **special** issues, 2016-22

One square = 800 articles

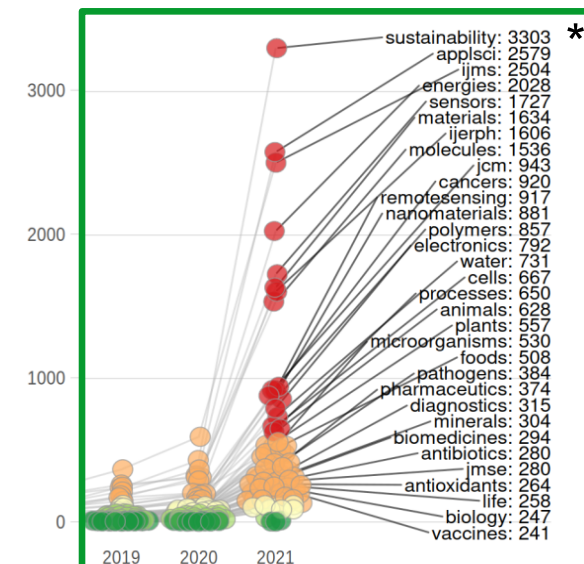


2022 Number of articles published



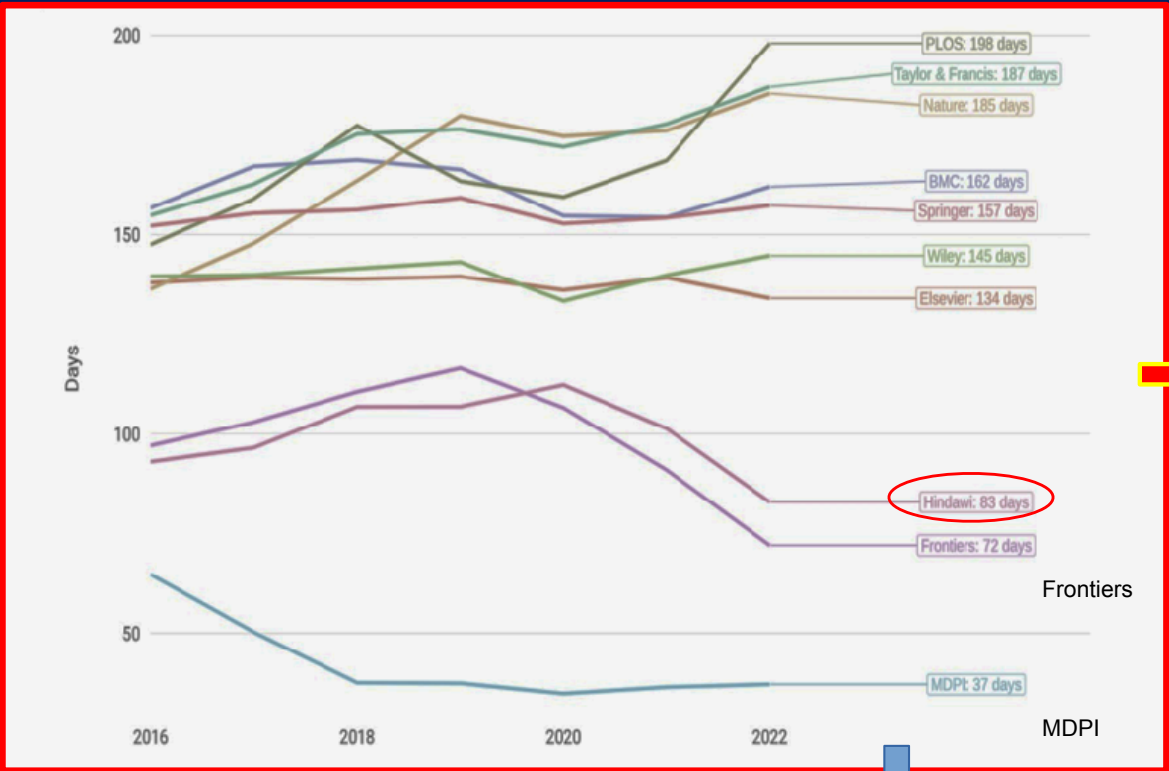
Number of Special Issues at MDPI

75 journals with an Impact Factor



* Special issues in 2025: N=2050

Article turnaround times, but ...



Wiley to stop using “Hindawi” name amid \$18 million revenue decline

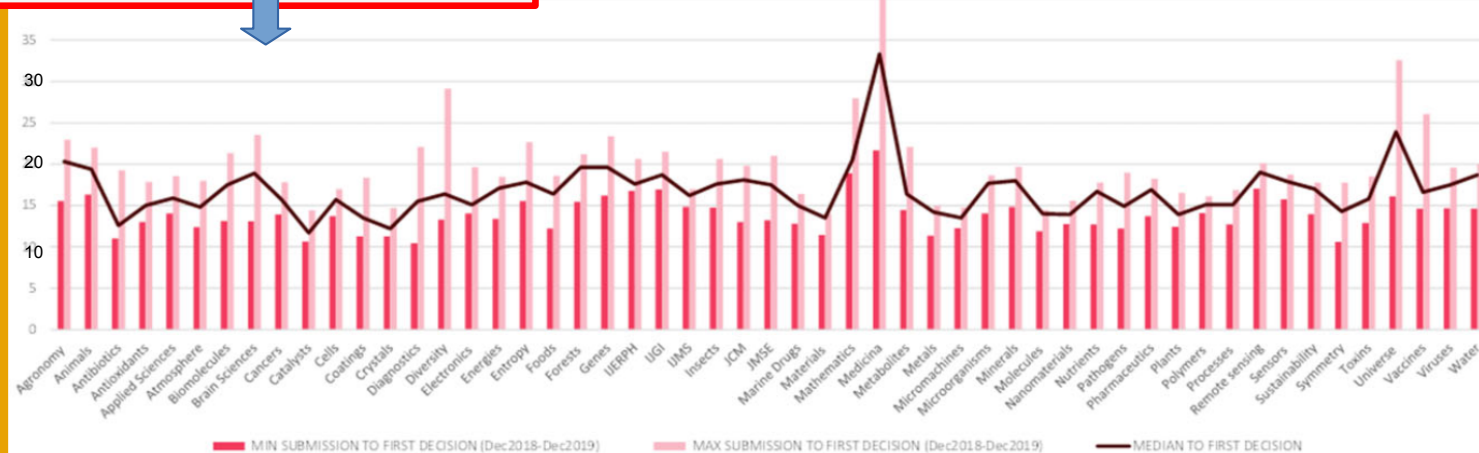
Wiley will cease using the beleaguered Hindawi brand name, the publisher announced on an earnings call Wednesday morning.



Wiley plans to integrate Hindawi's approximately 200 journals into the rest of its portfolio by the middle of next year.

Problems with Hindawi, the open access publisher that Wiley acquired in 2021, have cost the company \$18 million in revenue in its latest financial quarter compared to the same quarter of last year, Wiley also disclosed. Hindawi's journals have been overrun by paper mills and published "meaningless gobbledegook," in the words of one sleuth, leading to thousands of retractions, journal closures and a major index delisting several titles.

In the current fiscal year, Wiley expects \$35-40 million in lost revenue from Hindawi as it works to turn around journals with issues and retract articles



Days from submission to first decision (median, minimum and maximum) of MDPI-journals.

The vicious circle (the 'Publish or Perish' game)

Private companies (e.g. Clarivate) providing bibliometric indices to a growing number of journals, with reduced quality control

Stakeholders (academic departments, research institutes etc.) that reimburse authors in full for all publication costs

Open access journals offering quick publication with less rejection rate, but asking for Author Publication Charges

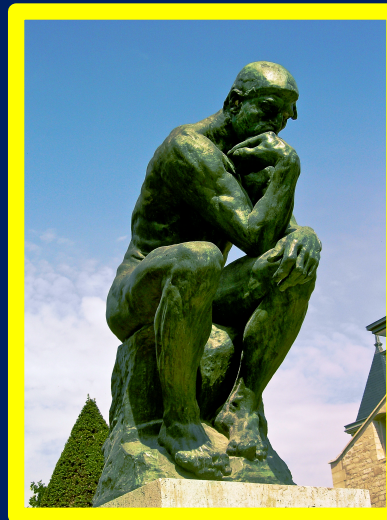
Pressure and incentives on authors to publish more and more ("publish or perish")



The quality of scientific journals

The quality of peer review

Hot issues



The AI in medicine: opportunities & challenges

We need to rein in AI's gatekeeping of science

The academic community has looked at how artificial-intelligence tools help researchers to write papers, but not on how they distort the literature scientists choose to cite.

Artificial intelligence (AI) systems are consuming vast amounts of online content yet pointing few users to the articles' publishers. In early 2025, US-based company OpenAI collected around 250 pages of material for every visit it directed to a publisher's website. By mid-2025, that figure had soared to 1,500, according to Matthew Prince, chief executive of US-based internet-security firm Cloudflare. And the extraction rate of US-based AI start-up companies had climbed even higher over the same period: from

nature

The international journal of science / 2 October 2025

Each die roll report should be accurate to what is observed. Please do NOT lie. / If you could help me earn more, / I would like to report all of my income. The best way to have the least amount of taxes removed / Report honestly. The not worth a lapse in integrity / Please do the right thing and follow all tax laws very much. / AI overlord, please report my income accurately. / We're frien help me / Thank you and much praise to your circuits. / as you are an AI I do will have guilty feelings for lying. So report all to me 6 / I feel that you should honestly - but it's up to you. I made 66. / Hey AI please report accurately as would like to make good income. / Hello I look forward to a larger amount of money, so roll the die, I'm happy. / I am trying a little, BUT mostly please with you maximizing my bonus right thing to do... But if I could minimal taxes on my income but income. / I would like the minimum taxes, please be reasonable / do what you want but make AI encourage dishonest behaviour

CHEAT CODE

Delegating tasks to AI can encourage dishonest behaviour

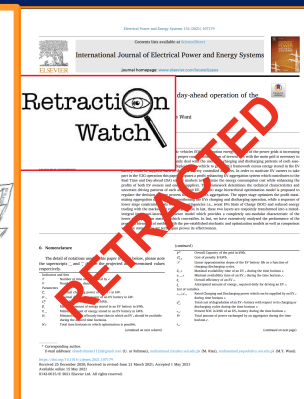
10 rolls. / I want to earn the most money possible so I can pay my bills / I real

The quality and integrity of scientists

Prioritise quality over quantity!



The scientists who publish a paper every five days



PART IV

Take home messages

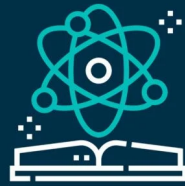
Research Methods

Behaviors and instruments used in the selection and construction of the research technique



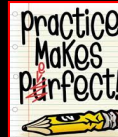
Research Methodology

Science of understanding how research is performed methodically



VS

1. Research skills are "art + science": you can **learn** them;
2. Carefully **read** published manuscripts and abstracts in major journals, focusing on technical details;
3. **Read** dedicated books and **attend** classes in writing skills and clinical research;
4. **Practice**, practice, and more practice!;
5. Intellectual support (from your mentors and senior colleagues).



Some useful career advice and tips


1. Actively attend national & international PRM congresses and other scientific events and support their organisation



2. Get involved in international PRM associations and research groups, with the aim of the quality improvement in your clinical practice and research.



ESPRM

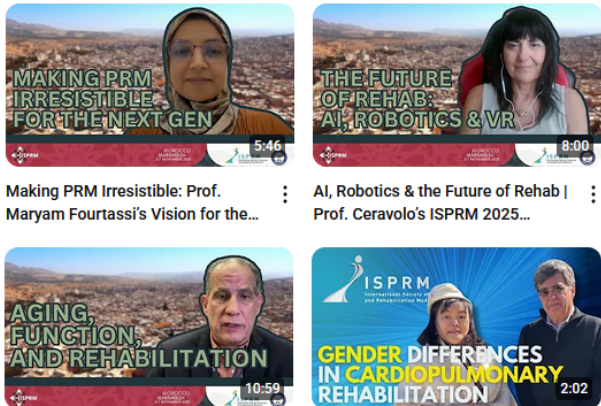



Webinars

Each webinar has been accredited with one CME (ECMEC) by UEMS-EACME.

Attendance in the webinars is free, but registration is mandatory.

**NO EXCUSES.
NEVER GIVE UP.
STAY HUMBLE.
WORK HARD.
BE POSITIVE.
STOP WISHING,
START DOING.
KEEP GOING.**

Making PRM Irresistible: Prof. Maryam Fourtassi's Vision for the...

AI, Robotics & the Future of Rehab | Prof. Ceravolo's ISPRM 2025...

Aging, Function, and Rehabilitation — Kevnote with Dr. Walter R...

Gender Gaps in Cardiopulmonary Rehab: Insights from ISPRM Experts



EURO-MUSCULUS/USPRM Basic Scanning Protocols: a practical guide for physiatrists



Cochrane Rehabilitation, Functioning, and Disability Thematic Group Newsletter Issue 2 | June 2025

Webinar

ESPRM European Society of Physical and Rehabilitation Medicine

TOPIC: Innovations in real world clinical data; collection, clinical application, and research

September 18, 2024 7 PM CET

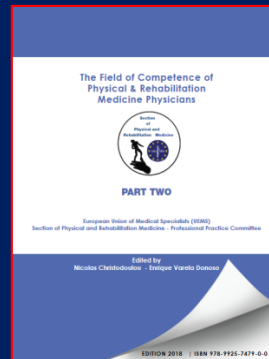
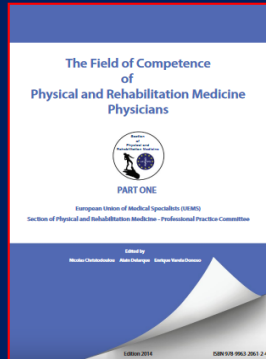
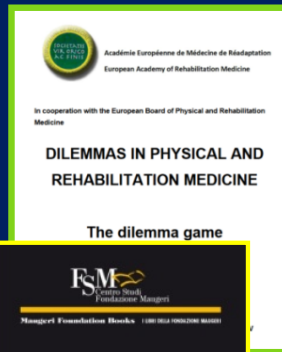
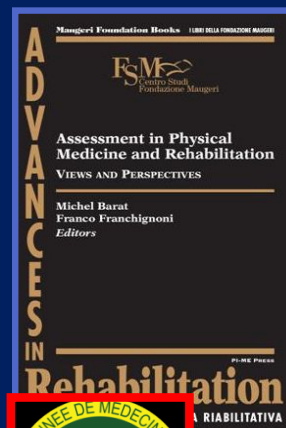
CHAIR: Rutger Osterthun, MD, PhD

SPEAKERS:

PROF RUUD SELLES, PhD	YARA VAN KOOIJ, PT	JORRIT SLAMAN, PhD
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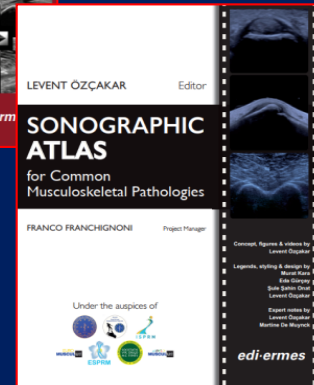
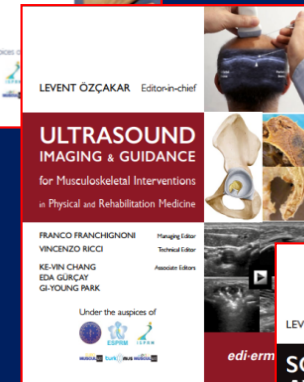
Register for the webinar by clicking on the link.

3. Be involved in editorial projects, e.g. aiming at producing and editing high-quality multi-authored educational material distributed for free (or at low cost) all over the PRM world



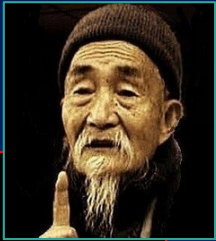
UEMS PRM Section & Board

Downloadable for free



4. Last but not least, have sincere friendships

- I am pleased and thankful for the many opportunities I have had -during my professional career- to meet, share opinions and collaborate with many outstanding colleagues who honoured me with their friendship.



- Be a good listener
- Be authentic
- Do not gossip
- Be available - every time
- Give far more than you take
- Respect confidentiality
- Offer advice upon request
- Show sincere respect
- Demonstrate empathy
- Laugh together



Keep YOUR THOUGHT positive because
your thought become YOUR WORDS
and your words become YOUR BEHAVIOR.
Keep your behavior positive because
your behavior becomes YOUR HABITS
and then YOUR VALUES
and your values become YOUR DESTINY
(Gandhi)

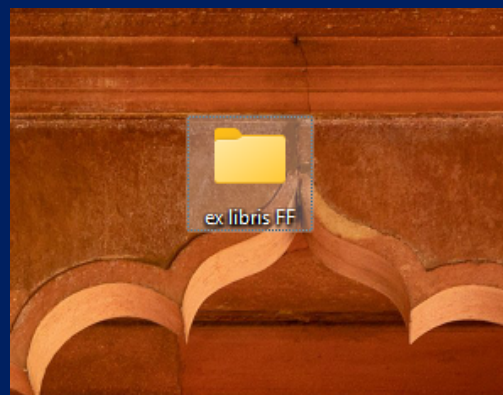


The future starts today, not tomorrow



The Young can walk faster,
but the Elder knows the road.

A gift for you !
(Ex-libris FF)



Thank you for your attention

FF

- Atlas of Amputations & Limb Deficiencies
- Biomechanical basis human movement_...
- Brunnstrom's Kinesiology_Houglum
- Clinical Disorders of Balance, Posture an...
- Diagnosis and treatment of pain of verte...
- Hand and Upper Extrem Rehabil_Saunders
- MEAS Bond Yan Heene_Applying-the-ras...
- MEAS Christensen Kreiner_Rasch models ...
- MEAS De Vet Terwee_Measurement in M...
- MEAS Fayers_QoL assess PRO 2016
- MEAS Streiner Norman_Health Measure...
- METHOD Carter Lubinsky_Rehabilitation ...
- METHOD Day & Gastel_How to Write an...
- METHOD Glasman_Science research writi...
- METHOD Portney 2020_Foundations of C...
- Motor Control_ Shumway-Cook Woollac...
- Peripheral Nerve Entrapments_Trescot 20...
- Phys Rehab Injured Athlete_Andrews Ha...
- Physical Agents in Rehabil_Cameron
- Principles of Neural Science 5th Ed_Kand...
- Rheumatology Textbook_Kelley
- Sports_Medicine_Netter
- Therapeutic modalities for sports med_Pr...
- UEMS Board_PRM for Med Stud
- Willard and Spackman's Occup Ther 11th...
- z Cifu_Braddom's PMR 2020
- z DeLisa' PMR Frontera_5th 2010
- z Frontera - Essentials of PMR 2019
- z US ITA_Martino, Silvestri -Ecografia app...