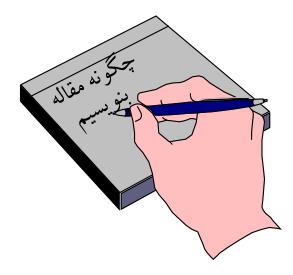




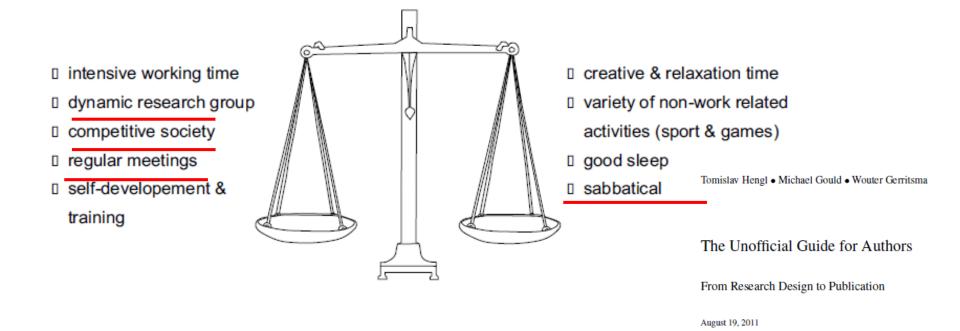
چگونه مقاله بنویسیم؟

دكتر مرتضى قوجازاده

Ghojazadehm@tbzmed.ac.ir



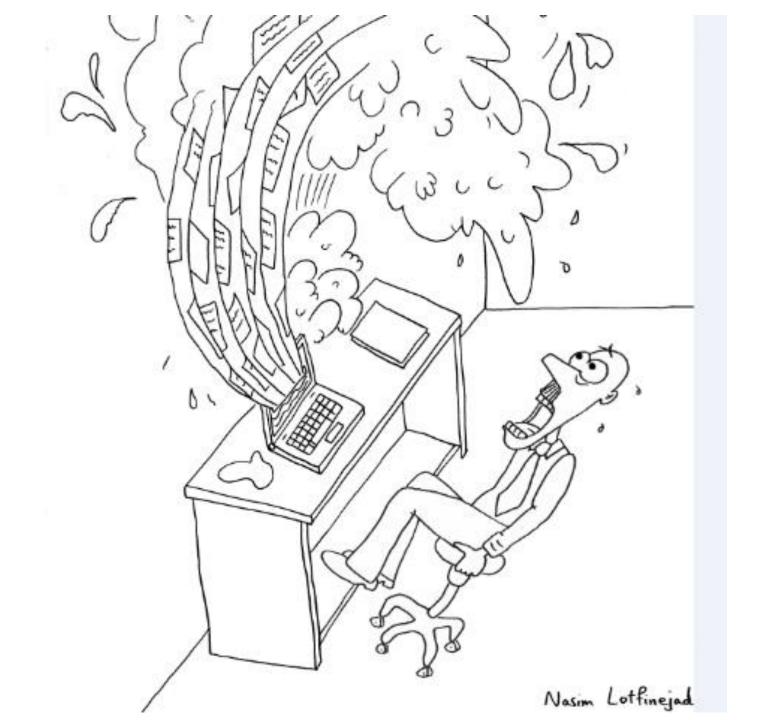
Academic writing and editing: reviews, original papers, case reports, editorials



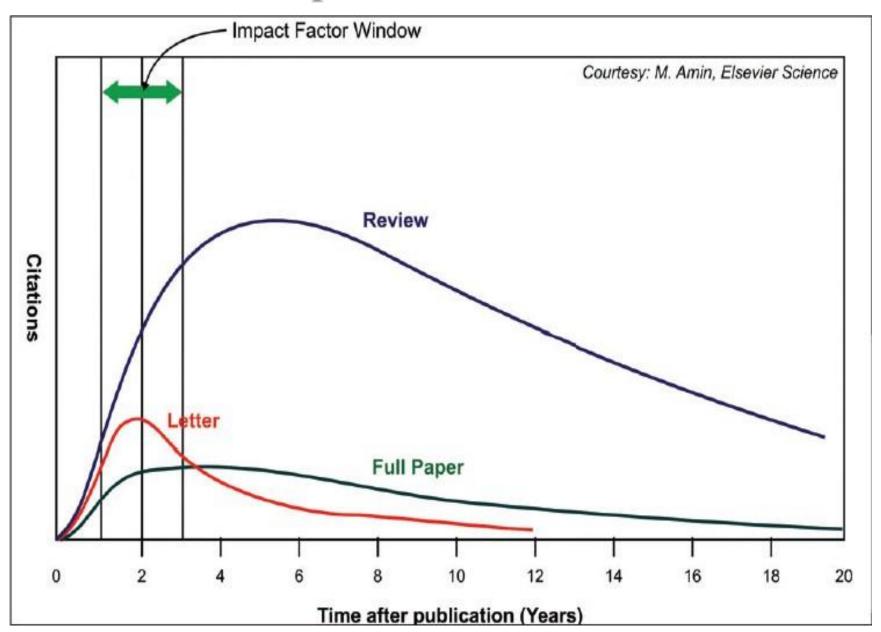
"The amount of writings of a profession is a measure of its vitality and activity, whilst their quality is a rough indication of its intellectual state"

Sir Robert Hutchison (1871-1960)

Lancet 1939;2:1059



Impact of Reviews



Narrative Reviews

- ✓ Often favoured by Publishers and are invited
- ✓ Highly likely to be cited in other papers, textbooks and theses
- ✓ Contain updated information of interest to the practitioners
- ✓ Editors often solicit reviews written by distinguished experts (honour)
- ✓ Each thesis starts and ends with a comprehensive review (often narrative)
- ✓ Should be discussed with Editor prior to submission (sometimes in the process of writing)

Review articles

- **Editorials** (commentaries by experts)
- **Authoritative reviews (mostly invited)**
- Narrative reviews of the literature (with a systematic approach)
- **Qualitative systematic reviews**
- **Quantitative systematic reviews** (systematic reviews and meta-analyses)

Narrative Reviews

- Number of Authors. Optimal Number of Authors – 3-4; for authoritative reviews – 1-
- Senior author is often the last; the lead author -1^{st}
- The title should reflect content, be concise. Put question when the review yields an answer(s)
- Some editors and reviews provide alternative titles

Journal of the American College of Cardiology © 2009 by the American College of Cardiology Foundation Published by Elsevier Inc.

Vol. 54, No. 23, 2009 ISSN 0735-1097/09/\$36.00 doi:10.1016/j.jacc.2009.09.009

STATE-OF-THE-ART PAPER

Inflammation in Atherosclerosis

From Pathophysiology to Practice

Peter Libby, MD,* Paul M Ridker, MD, MPH,*† Göran K. Hansson, MD, PHD,‡ for the Leducq Transatlantic Network on Atherothrombosis

Boston, Massachusetts; and Stockholm, Sweden

Seminar

Rheumatoid arthritis

David L Scott, Frederick Wolfe, Tom W J Huizinga

Rheumatol Int (2011) 31:289-300 DOI 10.1007/s00296-010-1586-z

Lancet 2010; 376: 1094-1108 Rheumatoid arthritis is characterised by

REVIEW

Current, new and future treatments of osteoporosis

Pooneh Salari Sharif · Mohammad Abdollahi · Bagher Larijani

2 Inflammation & Allergy - Drug Targets, 2010, Vol. 9, No. 1

Editorial from Editorial Board Member

Thoughts on Impact Factors and Editing of Medical Journals

REVIEW ARTICLE

Cardiovascular involvement in Behçet's disease

Yusuf Sezen • Hakan Buyukatipoglu • Zekeriya Kucukdurmaz • Ramazan Geyik

Current Pharmaceutical Design, 2010, 16, 3417-3434

Vitamin D and Metabolic Syndrome: Is There a Link?

Matilda Florentin^{1,2}*, Moses S. Elisaf², Dimitri P. Mikhailidis¹ and Evangelos N. Liberopoulos²



Full Text (PDF)

Review: Antiplatelet Drugs: What Comes Next?

CLIN APPL THROMB HEMOST February 2011 17: 9-26, first published on November 15, 2010

Titles

Research Letter

Journal of Human Hypertension, (28 April 2011) | doi:10.1038/jhh.2011.36

- Indicate the subject
- Short
- Informative
- Attractive

✓ Declarative
(highly
recommended)

Anti-TNFa therapy may lead to blood pressure reductions through improved endothelium-dependent microvascular unction in patients with rheumatoid arthritis

- A Sandoo, V F Panoulas, T E Toms, J P Smith, A Stavropoulos-Kalinoglou, G S Metsios, A Y Gasparyan, D Carroll, J J C S Veldhuijzen van Zanten and G D Kitas
- ✓ Descriptive or neutral

Journal of the Austrian Codings of Cartilology Foundation
Published by Elserier Inc.

STATE-OF-THE-ART PAPER

The Role of Aspirin in Cardiovascular Prevention
Implications of Aspirin Resistance

Armen Yuri Gasparyan, MD, PhD, Timothy Watson, MRCP, Gregory Y. H. Lip, MD, FRCP

Birmingham, United Kingdom

✓ Interrogative (question)

Recommended for reviews

Mean Platelet Volume: A Link Between Thrombosis and Inflammation?

Current Pharmaceutical Design, 2011, 17, 47-58

Armen Yuri Gasparyan^{1*}, Lilit Ayvazyan², Dimitri P. Mikhailidis³ and George D. Kitas^{1,4}

Jamali HR, Nikzad M. Article title type and its relation with the number of downloads and citations. Scientometrics DOI 10.1007/s11192-011-0412-z

Table 1 Number of downloads and citations for articles with different types of title

Title type	No	Download		Citation	
		Mean	Median	Mean	Median
Descriptive	1,442	3,906	2,754	16.92	14.23
Declarative	660	3,588	2,565	16.93	12
Question	45	5,817	3,723	10.47	6

Articles with question titles are downloaded more

The analysis was based on PLoS articles

Jamali HR, Nikzad M. Article title type and its relation with the number of downloads and citations. Scientometrics DOI 10.1007/s11192-011-0412-z

Factors increasing citations

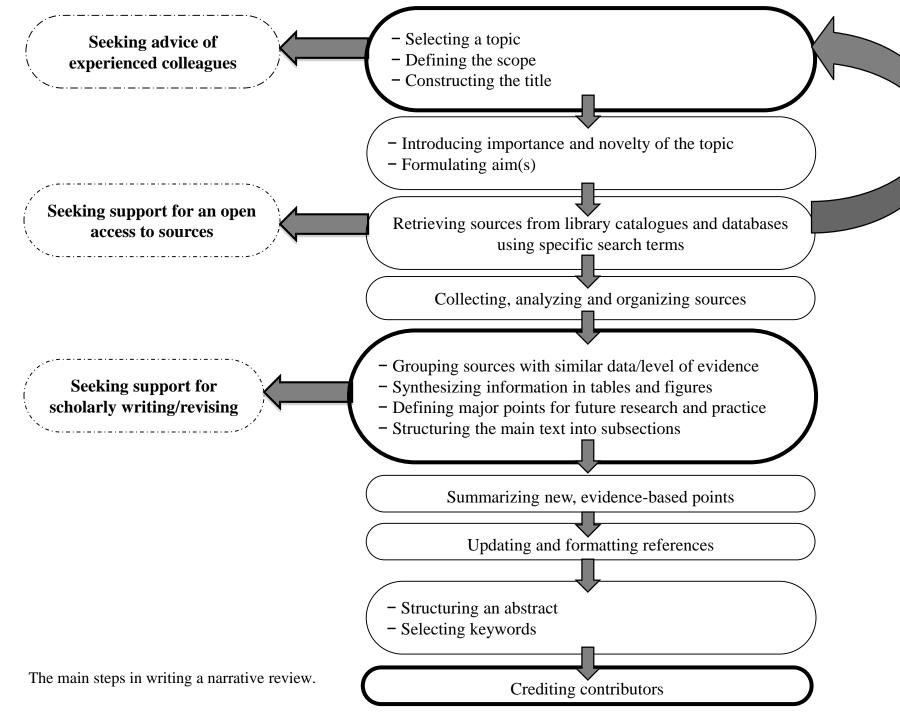
- Lengthy titles
- A colon in the title

•Analysis of 25 most cited and the 25 least cited in 2005 in top-rank journals (*TLN*, *BMJ*, *J Clin Pathol*)

Poor predictors of citations

· Reference to a specific country in the title

Jacques TS, Sebire NJ. The impact of article titles on citation hits: an analysis of general and specialist medical journals. Journal of the Royal Society of Medicine Short Reports 2009, 1(2), 1–5.



Structuring review (1)

- Structured abstract (preferable)
- Unstructured abstract (100-150 words) contains important results
- Keywords (from MeSH)
- Introduction. Justify novelty and aim
- Structuring by the topic major subheadings
- Volume up to 5,000 words

The Role of Platelets in Bone Remodeling

Pooneh Salari Sharif*,1 and Mohammad Abdollahi2

¹Medical Ethics and History of Medicine Research Center, Tehran University of Medical Sciences, Tehran, Iran

²Faculty of Pharmacy and Pharmaceutical Sciences Research Center, Tehran University of Medical Sciences, Tehran, Iran

Abstract: Platelets play a critical role in wound healing and hemostasis, as well as in repairing bone fracture. The impact of platelets on inflammation and inflammatory diseases has been appreciated. It has been demonstrated that inflammation and oxidative stress are intimately involved in the pathogenesis of osteoporosis. Degranulation of platelets, anuclear cell fragments, leads to the release of different growth factors and chemoattractants affecting bone metabolism. The net effect is, however, not fully understood. The current review is aimed to examine available studies on the impact of platelets on bone health. We searched data from Scopus, PubMed and Web of Science using keywords such as platelets, osteoblasts, osteoclasts, bone, antiplatelet drugs, bone formation, and bone resorption. As hypothesis of the review is emerging, a small number of *in vivo* and *in vitro* studies were found. Based on the available data, platelets and platelet-derived numerous immune and inflammatory agents can be viewed as targets for therapeutic and/or preventive measures in osteoporosis.

Keywords: Platelets, osteoporosis, inflammation, platelet-derived growth factors.

Online databases

- MedLine/PubMed http://www.ncbi.nlm.nih.gov/pubmed/
- Scopus http://www.scopus.com/home.url
- Web of Science http://wokinfo.com/
- EMBASE/Excerpta Medica http://www.embase.com/

Online databases (2)

- Cumulative Index to Nursing and Allied Health Literature http://www.ebscohost.com/cinahl/
- Global Health http://www.cabdirect.org/
- Directory of Open Access Journals http://www.doaj.org/
- HINARI Access to Research in Health Programme http://www.who.int/hinari/en
- Database of Abstracts and Reviews of Effectiveness (DARE) http://www.crd.york.ac.uk/crdweb/
- The Cochrane Library http://www.thecochranelibrary.com

Search strategy and selection criteria

We searched the Cochrane Library (2000–09), Medline (2000–09), and Embase (2000–09). We used the search term "rheumatoid arthritis" in combination with terms relevant for every section of the article, including: "cytokines", auto-antibodies", genetic risk factors", "prevalence", "incidence", "assessments", "outcome measures", "co-morbidities", and every specific treatment approach. We mainly selected publications from the past 5 years, although we did not exclude commonly referenced and highly regarded older publications. We also searched the reference lists of articles identified by this search strategy and selected those we judged relevant. We selected high-quality systematic reviews in preference to individual studies. Other review articles and books were cited to provide readers with more details and references than this Seminar can accommodate.

www.thelancet.com Vol 376 September 25, 2010

We searched available data from Scopus, PubMed, and Web of Science using keywords such as platelets, osteoblasts, osteoclasts, bone, antiplatelet drugs, bone formation, and bone resorption.

SEARCH STRATEGY

We searched Medline/PubMed, Scopus, EMBASE, DARE, and Web of Science (1983-2010) using terms "mean platelet volume" or "MPV" in combination with "thrombopoiesis", "platelet function", "methods", "flow cytometry", "automated hematology analyzer", "thrombosis", "cardiovascular risk", "smoking", "hypertension", "diabetes", "dyslipidemia", "obesity", "coronary artery disease", "heart failure", "stroke", "venous thrombosis", "inflammatory disorders", "rheumatic disease", "antiplatelet agents", "treatment", and "genetics". The preference was given to the sources published within the past 5 years and to the large clinical studies focusing on the role of MPV in thrombosis and inflammation. Highly-cited old publications on thrombopoiesis and platelet size heterogeneity were

Structuring review (2)

- Unbiased search. Retrieve sources with a strong evidence from PubMed/WoS. Sources from EMBASE, SCOPUS and other DBs should be selected based on their quality
- Consider highly-cited sources
- Look at the reference lists in SCOPUS
- Specify dates
- Contact authors of published papers
- Unpublished sources/congress abstracts, dissertations, not peer-reviewed magazine and newspaper articles (???)

Structuring review (3)

- Main body. Analyze sources critically, take into account strengths and limitations, pros and contras, positive and negative studies
- Distinguish main problems
- Provide solutions and research perspectives
- Express personal opinion only in the Conclusion
- Do not add unusual sections (e.g. Discussion)
- Avoid overciting your own publications
- Avoid citing publications from the same journal (BUT look at previous publications to avoid writing a review with a similar topic)

Structuring review (4)

- References up to 75-90! Most should be easily accessible, from ScienceDirect and CrossRef
- Full texts should be available through library and open access to readers (!?)
- Avoid too short or too long lists
- Old sources only to outline briefly historical perspectives
- In some cases citing sources published in the past 5-7 years is a plus (specify in search criteria)
- Formatting refs. IFA! (speed-up publication)

Structuring review (5)

- Tables. Analyze pertinent sources. Provide information on patient numbers, level of evidence, comments. Do not repeat details in the text
- Number of figures. For some -3-4
- High quality and original figures are needed. Limit figures with permission to reproduce

Where to submit reviews

• Journals publishing reviews: Seminars in..., Current Reviews..., Special issues...





ISSN: 0049-0172 Imprint: SAUNDERS

Actions

Seminars in Arthritis and Rheuma medicine and orthopedics. Each b rheumatology. It is of interest to r immunologists and specialists ... c

Editor-in-Chief: Marc C. Hochberg, MD, MPH



TheLancet.com



The Lancet Seminars

Browse the entire collection of peer-reviewed Seminars commissioned by Lancet editors and published in *The Lancet*. Each Seminar provides a state-of-the-art overview of a disease, covering epidemiology, pathogenesis, diagnosis, treatment, and prevention, while highlighting relevant clinical controversies. The Seminars are relevant to doctors anywhere in the world, ideal for exam preparation, and invaluable as teaching tools for clinical tutors worldwide.

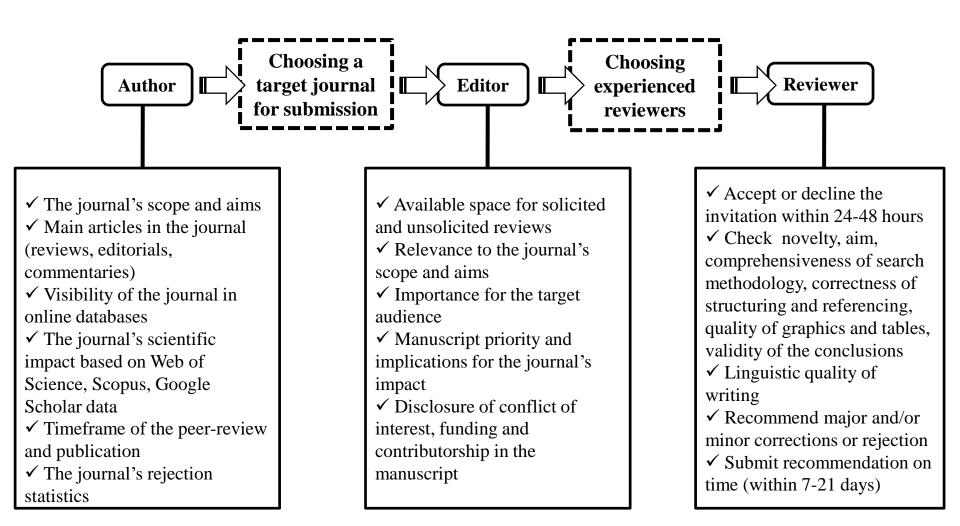
See also <u>The Lancet Core Clinical Collection</u>, covering the top 100 diseases of global importance, clinical significance, and research interest.

Entire Collection

MI (482) 2010 (31) 2009 (34) 2008 (38) 2007 (37) 2006 (38)

Rejection of reviews

- Similar review was published recently, or out of scope
- Difficulties with following text/poor language
- Lack of structuring/dividing by sections/illustrations
- Authoritative/unbalanced/with personal opinion/unjustified critics
- Many autocitations (bias), papers from the same source (lack of diversity), references with low level of evidence, not peer-reviewed sources
- No clear answers. No research perspectives



The main considerations in the submission and processing of review manuscripts.

Clinical Reviews Impacting Science

Klareskog, L., Catrina, A.I., Paget, S.

Rheumatoid arthritis

(2009) The Lancet, 373 (9664), pp. 659-672. Cited 54 times. doi: 10.1016/S0140-6736(09)60008-8

Medical progress: Biomarkers in heart failure

Braunwald, E.

2008 New England Journal of Medicine 358 (20), pp. 2148-2159+2094 199

Sakane, T., Takeno, M., Suzuki, N., Inaba, G.

Behcet's disease

(1999) New England Journal of Medicine, 341 (17), pp. 1284-1291. Cited 636 times. doi: 10.1056/NF.JM199910213411707

Editorials

- 500-1000 words, 20-30 references, 1-2 graphics
- Attractive title
- Written by EB members or chief editors
- May be invited or unsolicited
- Linked to the content of the issue, or reflect editorial opinion
- Some look like mini-reviews
- Helpful for improving journal quality
- Abstracts and subtitles are not recommended
- Contain 1-2 main points

Rheumatology (Oxford). 2010 Dec;49(12):2235-6. Epub 2010 Aug 4.

If it works why can't we have it? Sequential anti-TNF therapy in the UK.

Deighton C.

Vasc Health Risk Manag. 2010 Mar 24;6:109-12.

Comment on

Aspirin and clopidogrel resistance: methodological challenges and opportunities.

Rheumatology (Oxford). 2010 Dec;49(12):2313-21 Gasparyan AY.

<u>Gasparyan An</u>. Clinical Research Unit, Russell's Hall Hospital, Dudley Group of Hospitals NHS Foundation Trust, West Midlands, UK. a.gasparyan@gmail.com

PMID: 20685801 [PubMed - indexed for MEDLINE]

Abstract

Antiplatelet drug resistance is one of the urgent issues in current cardiovascular medicine. Many platelet function tests have been used to define responsiveness of patients with cardiovascular disease to aspirin and clopidogrel. In most studies, cutoff values of platelet function tests for defining responsiveness to antiplatelets were chosen arbitrarily. Different tests provided wide-ranging figures of the prevalence of aspirin and clopidogrel resistance, suggesting poor correlation between currently available platelet function tests. Measurement of platelet size seems to be a promising approach for monitoring antiplatelet drug therapy. This commentary highlights some limitations of studies on aspirin and clopidogrel resistance in patients undergoing coronary interventions.

PMID: 20448796 [PubMed - indexed for MEDLINE] PMCID: PMC2860443 Free PMC Article

Publication Types, MeSH Terms, Substances

Publication Types

Review

Circ Res. 2008 Oct 10;103(8):771-2.

Training the clinician investigator.

Marbán E, Braunwald E.

PMID: 18845813 [PubMed - indexed for MEDLINE] Free full text

Publication Types, MeSH Terms

Publication Types

Editorial

Research Support, N.I.H., Extramural

Research Support, Non-U.S. Gov't

Medical case reports

CR, case notes, case histories, case studies - uncontrolled scientific observations of a single clinical case that must be carefully documented to serve as valuable education and research tools

Coccia CT, Ausman JI. Is a case report an anecdote? In defense of personal observations in medicine. Surgical Neurology 1987;28(2):111-113.

"Always note and record the unusual... and publish it"



Sir William Osler 1849-1919

Clinical case reports

- **✓** Not favoured by most publishers
- **✓** Some journals reject outright
- **✓** Chances of citations are slim
- ✓ CR negatively affect 2-y JIF (to avoid that CR can be published as LTEs)
- ✓ Level of evidence is the lowest (basic observation, description)
- **✓** Authors are usually young doctors
- ✓ Of interest to practitioners who may encounter rare conditions and to students (learning points)

Importance of case reports (1)

Case report describing side effects of a new drug



Prospective studies aimed at providing higher level of evidence



Corrections in available guidelines or withdrawal of drug from market

Importance of case reports (2)

Anti-TNF alpha agents in the treatment of Behcet Disease



Prospective studies aimed at providing a higher level of evidence

Importance of case reports (2)

Statins in the treatment of rheumatoid arthritis



Prospective studies

Case of successful treatment with Colchicine in Familial Mediterranean fever (1972)



US FDA approval for Familial Mediterranean fever (2009)

Case Reports Impacting Science

Goldfinger, S.E.

Colchicine for familial Mediterranean fever.

(1972) New England Journal of Medicine, 287 (25), p. 1302. Cited 124 tymes.

Emotional stress-induced 'ampulla cardiomyopathy' -Discrepancy between the metabolic and sympathetic innervation imaging performed during the recovery course Owa, M., Aizawa, K., Urasawa, N., Ichinose, H., Yamamoto, K., Karasawa, K., Kagoshima, M., (...) Ikeda, S.-I. 2001 Japanese Circulation Journal 65 (4), pp. 349-352 97

Original papers

- IMRAD Introduction, Methods, Results and Discussion
- Volume 3000-4000 words for the whole text

Structure of original papers

- Title. Short, concise, but detailed (for retrievablility)
- Authors. ICMJE criteria (an author should meet all): 1. substantial contribution to proposal and design, or data accuracy, or analysis and data interpretation, 2. critically revise content, and 3. approve for publication
- Affiliation of each co-author (department, university, city, country)
- Full correspondence address with email
- Structured abstract (250 words)

Introduction of original papers

- **✓** 400-500 words (concise)
- ✓ Summarize in a few sentences literature data
- ✓ Avoid long epidemiological or historical overviews
- **✓** Why your study is important and novel
- **✓** Do not divide introduction into subheadings
- ✓ Keywords of the title/paper should be explained
- ✓ State the purpose, working hypothesis and justify design (last sentences are most read)
- ✓ Some ask for a sentence on main results of the study
- **✓** Do not copy-paste (write in your own words)

Methods in original papers

- ✓ Up to 700 words
- ✓ Who, Where (department), When (timeframe)
- **✓** How subjects were selected (incl-excl criteria)
- **✓** Study design (cohort, prospective, randomized)
- **✓** Detailed description of a new test/drug, surgery
- Avoid detailing old tests; just cite a reference
- Details for replication of your tests (SOPs)
- **✓** Cite only papers on tests/methods
- ✓ Results and Discussion should be avoided
- Write in the past tense; may copy published text for sophisticated tests (but own words are preferable)

Four hundred RA patients fulfilling the 1987 revised American College of

Rheumatology classification criteria [33], were recruited from outpatient clinics at the Dudley Group of Hospitals NHS Foundation Trust between 2004 and 2006 (the

Dudley Rheumatoid Arthritis Comorbidity Cohort, the characteristics of which have been previously described in detail) [6,34]. Of them, 387 with a complete dataset

The study was granted full ethical approval from the local ethics committee and all patients gave their informed written consent prior to commencement of the study.

interview. Baseline demographics were recorded and anthropometric characteristics were measured as previously described [9]. Current disease activity and physical function were assessed using the 28-joint disease activity score (DAS28) [35] and the health assessment questionnaire (HAQ) [36], respectively.

Baseline blood samples were obtained from each patient and were analysed in a

Ethics approval of original papers

- >Mention about written or oral consent of patients
- >Ethics of animal research
- Full details of the protocol of ethics approval for the study by IRB
- ➤ If there is no IRB administration's approval

WMA Helsinki Declaration (adopted 1964; last amended at the 59th WMA General Assembly, Seoul, 2008 http://www.wma.net/en/30publications/10policies/b3/17c.pdf



WORLD MEDICAL ASSOCIATION DECLARATION OF HELSINKI Ethical Principles for Medical Research Involving Human Subjects

Adopted by the 18th WMA General Assembly, Helsinki, Finland, June 1964, and amended by the:

29th WMA General Assembly, Tokyo, Japan, October 1975

35th WMA General Assembly, Venice, Italy, October 1983

41st WMA General Assembly, Hong Kong, September 1989

48th WMA General Assembly, Somerset West, Republic of South Africa, October 1996

52nd WMA General Assembly, Edinburgh, Scotland, October 2000

53rd WMA General Assembly, Washington 2002 (Note of Clarification on paragraph 29 added)

55th WMA General Assembly, Tokyo 2004 (Note of Clarification on Paragraph 30 added)

59th WMA General Assembly, Seoul, October 2008

A. INTRODUCTION

- The World Medical Association (WMA) has developed the Declaration of Helsinki as a statement of ethical principles for medical research involving human subjects, including research on identifiable human material and data.
 - The Declaration is intended to be read as a whole and each of its constituent paragraphs should not be applied without consideration of all other relevant paragraphs.
- Although the Declaration is addressed primarily to physicians, the WMA encourages other participants in medical research involving human subjects to adopt these principles.

Statistical analyses

- Sample size calculation and statistical power
- A test for checking distribution (e.g. Kolmogorov-Smirnov) normal/non-normal
- Details of linear and logistic regression models
- Statistical package and version used

Statistical analysis

This was carried out using SPSS 15.0 (SPSS Inc, Chicago, IL, USA). The distribution of each variable was examined using Kolmogorov-Smirnov function. Results are expressed as mean ± standard deviation, median (25th to 75th percentile), or percentages, as appropriate. For the univariate analysis, chi-squared, t-test and Mann-Whitney U tests were used to test categorical, normally and not normally distributed data, respectively. The independence of the predictors of the MetS was tested in the multivariate models using binary logistic regression.

Results

- 700-800 words
- Order as in Methods and stat analyses sections
- Present important findings with P values and 95%CIs
- Absolute numbers and percentages
- Save raw data for future (for peer review)
- Do not report results of tests not mentioned in Methods
- Self-explained tables and figures (do not duplicate text)
- Do not discuss and draw conclusions here
- Write in the past tense

Discussion and conclusion

- Up to 1000 words (1/3 of paper)
- Summarize results without duplication
- How do your results compare to others'
- What is new?
- Implications?
- Did you achieve the goal?
- Limitations of methods and results
- Write in the present tense for facts and conclusions and in the past tense for what you achieved
- Conclude in 2-3 sentences. Avoid statements not based on your results
- Avoid generalizations like 'Further research is needed to clarify the issue'

References

- Limit to most relevant
- Up to 20-30
- Choose from PubMed, Scopus, Web of Science
- Provide DOIs, URLs
- Format in accordance with IFA

Footnotes

- Funding
- Competing interests
- Authors' contributions
- Acknowledgements

Rejection of original papers

- Poor stat analyses
- Inappropriate data presentation (order and relevance)
- Recapitulation of previously published data
- Misplaced information between Methods and Results sections
- Discussion does not distinguish important results
- Vague and not justified conclusions

Registration of Clinical Trials (Accepted by ICMJE)

Australian New Zealand Clinical Trial Registry

http://www.anzctr.org.au/Survey/UserQuestion.aspx

ClinicalTrials.gov

http://www.clinicaltrials.gov/

- International Standard Randomised Controlled Trial Number (ISRCTN) Register http://isrctn.org/
- University hospital Medical Information Network Clinical Trials Registry (UMIN-CTR) http://www.umin.ac.jp/ctr/index.htm
- Netherlands Trial Register
 http://www.trialregister.nl/trialreg/index.asp
- Primary registries in the WHO International Clinical Trials Registry Platform (ICTRP)

http://www.who.int/ictrp/about/details/en/index.html

CSE's White Paper on Promoting Integrity in Scientific Journal Publications http://www.councilscienceeditors.org/i4a/pages/index.cfm?pageid=3355#2.2.4