

The Indian Journal of Medical Research

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SCOPE

The Indian Journal of Medical Research (IJMR) is a biomedical journal with international circulation. It publishes original communications of biomedical research that *advances or illuminates medical science or that educates* the journal readers. It is issued monthly, in two volumes per year. Detailed guidelines for authors are also available at the Indian Council of Medical Research website (<http://www.icmr.nic.in>).

Manuscripts dealing with clinical aspects will be considered for publication, provided they contain results of original investigations. Articles need to be of general interest - *e.g.*, they cross the boundaries of specialities or are of sufficient novelty and importance that the journal's readers, whatever their speciality, should be made aware of the findings. Research papers reporting original research, review articles, correspondence on published articles will also be considered. Papers of routine nature which are merely records of interesting cases as also those dealing with modifications of routine methodology will not be encouraged. Further, serialization of articles by the same author(s) into various parts (1,2,3 *etc.*) is strongly discouraged. In such cases the authors are advised to submit independent papers with self-sufficient titles and text.

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All papers submitted to IJMR are subject to peer review process. All accepted papers will be suitably edited before publication.

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Manuscripts can be submitted in a 3.5" floppy diskette in MS Word (in addition to the hard copies). Typescripts in triplicate should be sent to the Editor, The Indian Journal of Medical Research, Indian Council of Medical Research, V. Ramalingaswami Bhawan, Ansari Nagar, New Delhi-110029 (India).

Authors are advised to see a recent issue of the journal to get familiar with the format adopted on various elements of a paper.

Manuscripts should be presented in as concise a form as possible, typewritten in double space on one side of a good quality bond paper (21.0 x 29.7 cms). Pages should be numbered consecutively and the contents arranged in the following order:- Title; Name(s) of the author(s); Department(s) and Institution(s); Abstract; Key words; Introduction; Material & Methods; Results; Discussion; Acknowledgement; and References. Abstract, Tables and Legends for Figures should be typed on separate sheets and not in continuation of the main text.

Title

Title of the article should be short, continuous (broken or hyphenated titles are *not* acceptable) and yet sufficiently descriptive and informative so as to be useful in indexing and information retrieval. A short running title not exceeding 6-7 words may also be provided.

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All manuscripts should have a structured abstract (of about 250 words) with subheadings of background & objectives, methods, results, interpretation and conclusions. Abstract should be brief and indicate the scope and significant results of the paper. It should only highlight the principal findings and conclusions so that it can be used by abstracting services without modification. Conclusions and recommendations not found in the text of the articles should *not* be inserted in the Abstract. A set of suitable key words arranged alphabetically may be provided.

Introduction

Introduction should be brief and state precisely the scope of the paper. Review of the literature should be restricted to reasons for undertaking the present study and provide only the most essential background.

Material & Methods

The nomenclature, the source of material and equipment used, with the manufacturers details in parenthesis, should be clearly mentioned. The procedures adopted should be explicitly stated to enable other workers to reproduce the results, if necessary. New methods may be described in sufficient detail and indicating their limitations. Established methods can be just mentioned with authentic references and significant deviations, if any given, with reasons for adopting them. While reporting experiments on human subjects and animals, it should be clearly mentioned that procedures followed are in accordance with the ethical standards laid down by the national bodies or organizations of the particular country. For example, for research carried out in India on human subjects, the ICMR's *Ethical guidelines for biomedical research on human subjects* (2000) (<http://www.icmr.nic.in>) should be adhered to. Similarly, for experiments on laboratory animals the guidelines of the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) should be followed. Adequate information should be provided on the care and use of laboratory animals, source of animals, strain, age, sex, housing and nutrition *etc.* Whenever needed, appropriate certification should be provided at the time of submission of the manuscripts. The drugs and chemicals used should be precisely identified, including generic name(s), dosage(s) and route(s) of administration.

The statistical analysis done and statistical significance of the findings when appropriate, should be mentioned. Unless absolutely necessary for a clear understanding of the article, detailed description of statistical treatment may be avoided. Articles based heavily on statistical considerations, however, need to give details particularly when new or uncommon methods are employed. Standard and routine statistical methods employed need to give only authentic references.

Results

Only such data as are essential for understanding the discussion and main conclusions emerging from the study should be included. The data should be arranged in unified and coherent sequence so that the report develops clearly and logically. Data presented in tables and figures should *not* be repeated in the text. Only important observations need to be emphasized or summarised. The same data should not be presented both in tabular and graphic forms. Interpretation of the data should be taken up only under the Discussion and *not* under Results.

Discussion

The discussion should deal with the interpretation of results without repeating information already presented under Results. It should relate new findings to the known ones and include logical deductions. It should also mention any weaknesses of the study.

The conclusions can be linked with the goals of the study but unqualified statements and conclusions not completely supported by the data should be avoided. Claiming of priority on work that is ongoing should also be avoided. All hypotheses should, if warranted, clearly be identified as such; recommendations may be included as part of the Discussion, only when considered absolutely necessary and relevant.

Acknowledgment

Acknowledgment should be brief and made for specific scientific/technical assistance and financial support only and *not* for providing routine departmental facilities and encouragement or for help in the preparation of the manuscripts (including typing or secretarial assistance).

References

The total number of References should normally be restricted to a maximum of 30.

References to literature cited should be numbered consecutively and placed at the end of the manuscript. In the text they should be indicated above the line (superior). As far as possible mentioning names of author(s) under references should be avoided in text.

Articles in Journals: The titles of the journals should be abbreviated according to the style used by the *Index Medicus*. The list of journals indexed, published annually, in the January issue of the *Index Medicus* may be consulted.

1. Standard journal article

List the first six authors followed by et al.

Halpern SD, Ubel PA, Caplan AL. Solid-organ transplantation in HIV-infected patients. *N Engl J Med*. 2002; 347:284-7.

More than six authors:

Rose ME, Huerbin MB, Melick J, Marion DW, Palmer AM, Schiding JK, et al. Regulation of interstitial excitatory amino acid concentrations after cortical contusion injury. *Brain Res*. 2002;935(1-2):40-6.

2. Organization as author

Diabetes Prevention Program Research Group. Hypertension, insulin, and proinsulin in participants with impaired glucose tolerance. *Hypertension*. 2002;40(5):679-86.

3. Both personal authors and an organization as author

Vallancien G, Emberton M, Harving N, van Moorselaar RJ; Alf-One Study Group. Sexual dysfunction in 1,274 European men suffering from lower urinary tract symptoms. *J Urol*. 2003;169(6):2257-61.

4. No author given

21st century heart solution may have a sting in the tail. *BMJ*. 2002;325(7357):184.

5. Article not in English

Ellingsen AE, Wilhelmsen I. Sykdomsangst blant medisin- og jusstudenter. *Tidsskr Nor Laegeforen*. 2002;122(8):785-7.

6. Volume with supplement

Geraud G, Spierings EL, Keywood C. Tolerability and safety of frovatriptan with short- and long-term use for treatment of migraine and in comparison with sumatriptan. *Headache*. 2002;42 Suppl 2:S93-9.

7. Issue with supplement

Glauser TA. Integrating clinical trial data into clinical practice. *Neurology*. 2002;58(12 Suppl 7):S6-12.

8. Volume with part

Abend SM, Kulish N. The psychoanalytic method from an epistemological viewpoint. *Int J Psychoanal*. 2002;83 (Pt 2):491-5.

9. Issue with part

Ahrar K, Madoff DC, Gupta S, Wallace MJ, Price RE, Wright KC. Development of a large animal model for lung tumors. *J Vasc Interv Radiol*. 2002;13(9 Pt 1):923-8.

10. Issue with no volume

Banit DM, Kaufer H, Hartford JM. Intraoperative frozen section analysis in revision total joint arthroplasty. *Clin Orthop*. 2002;(401):230-8.

11. No volume or issue

Outreach: bringing HIV-positive individuals into care. *HRSA Careaction*. 2002 Jun:1-6.

12. Pagination in roman numerals

Chadwick R, Schuklenk U. The politics of ethical consensus finding. *Bioethics*. 2002;16(2):iii-v.

13. Type of article indicated as needed

Tor M, Turker H. International approaches to the prescription of long-term oxygen therapy [letter]. *Eur Respir J*. 2002;20(1):242.

Lofwall MR, Strain EC, Brooner RK, Kindbom KA, Bigelow GE. Characteristics of older methadone maintenance (MM) patients [abstract]. *Drug Alcohol Depend*. 2002;66 Suppl 1:S105.

14. Article containing retraction

Feifel D, Moutier CY, Perry W. Safety and tolerability of a rapidly escalating dose-loading regimen for risperidone. *J Clin Psychiatry*. 2002;63(2):169. Retraction of: Feifel D, Moutier CY, Perry W. *J Clin Psychiatry*. 2000;61(12):909-11.

15. Article retracted

Feifel D, Moutier CY, Perry W. Safety and tolerability of a rapidly escalating dose-loading regimen for risperidone. *J Clin Psychiatry*. 2000;61(12):909-11. Retraction in: Feifel D, Moutier CY, Perry W. *J Clin Psychiatry*. 2002;63(2):169.

16. Article republished with corrections

Mansharamani M, Chilton BS. The reproductive importance of P-type ATPases. *Mol Cell Endocrinol*. 2002;188(1-2):22-5. Corrected and republished from: *Mol Cell Endocrinol*. 2001;183(1-2):123-6.

17. Article with published erratum

Malinowski JM, Bolesta S. Rosiglitazone in the treatment of type 2 diabetes mellitus: a critical review. *Clin Ther*. 2000;22(10):1151-68; discussion 1149-50. Erratum in: *Clin Ther* 2001;23(2):309.

18. Article published electronically ahead of the print version

Yu WM, Hawley TS, Hawley RG, Qu CK. Immortalization of yolk sac-derived precursor cells. *Blood*. 2002 Nov 15;100(10):3828-31. Epub 2002 Jul 5.

Books and Other Monographs

19. Personal author(s)

Murray PR, Rosenthal KS, Kobayashi GS, Pfaller MA. *Medical microbiology*. 4th ed. St. Louis: Mosby; 2002.

20. Editor(s), compiler(s) as author

Gilstrap LC 3rd, Cunningham FG, VanDorsten JP, editors. *Operative obstetrics*. 2nd ed. New York: McGraw-Hill; 2002.

21. Author(s) and editor(s)

Breedlove GK, Schorfheide AM. *Adolescent pregnancy*. 2nd ed. Wiczorek RR, editor. White Plains (NY): March of Dimes Education Services; 2001.

22. Organization(s) as author

Royal Adelaide Hospital; University of Adelaide, Department of Clinical Nursing. *Compendium of nursing research and practice development, 1999-2000*. Adelaide (Australia): Adelaide University; 2001.

23. Chapter in a book

Meltzer PS, Kallioniemi A, Trent JM. Chromosome alterations in human solid tumors. In: Vogelstein B, Kinzler KW, editors. *The genetic basis of human cancer*. New York: McGraw-Hill; 2002. p. 93-113.

24. Conference proceedings

Harnden P, Joffe JK, Jones WG, editors. *Germ cell tumours V. Proceedings of the 5th Germ Cell Tumour Conference*; 2001 Sep 13-15; Leeds, UK. New York: Springer; 2002.

25. Conference paper

Christensen S, Oppacher F. An analysis of Koza's computational effort statistic for genetic programming. In: Foster JA, Lutton E, Miller J, Ryan C, Tettamanzi AG, editors. *Genetic programming. EuroGP 2002: Proceedings of the 5th European Conference on Genetic Programming*; 2002 Apr 3-5; Kinsdale, Ireland. Berlin: Springer; 2002. p. 182-91.

26. Scientific or technical report

Issued by funding/sponsoring agency:

Yen GG (Oklahoma State University, School of Electrical and Computer Engineering, Stillwater, OK). *Health monitoring on vibration signatures. Final report*. Arlington (VA): Air Force Office of Scientific Research (US), Air Force Research Laboratory; 2002 Feb. Report No.: AFRLSRBLTR020123. Contract No.: F496209810049.

Issued by performing agency:

Russell ML, Goth-Goldstein R, Apte MG, Fisk WJ. *Method for measuring the size distribution of airborne Rhinovirus*. Berkeley (CA): Lawrence Berkeley National Laboratory, Environmental Energy Technologies Division; 2002 Jan. Report No.: LBNL49574. Contract No.: DEAC0376SF00098. Sponsored by the Department of Energy.

27. *Dissertation*

Borkowski MM. Infant sleep and feeding: a telephone survey of Hispanic Americans [dissertation]. Mount Pleasant (MI): Central Michigan University; 2002.

28. *Patent*

Pagedas AC, inventor; Ancel Surgical R&D Inc., assignee. Flexible endoscopic grasping and cutting device and positioning tool assembly. United States patent US 20020103498. 2002 Aug 1.

Other Published Material

29. *Newspaper article*

Tynan T. Medical improvements lower homicide rate: study sees drop in assault rate. The Washington Post. 2002 Aug 12;Sect. A:2 (col. 4).

30. *Audiovisual material*

Chason KW, Sallustio S. Hospital preparedness for bioterrorism [videocassette]. Secaucus (NJ): Network for Continuing Medical Education; 2002.

31. *Legal Material*

Public law:

Veterans Hearing Loss Compensation Act of 2002, Pub. L. No. 107-9, 115 Stat. 11 (May 24, 2001).

Unenacted bill:

Healthy Children Learn Act, S. 1012, 107th Cong., 1st Sess. (2001).

Code of Federal Regulations:

Cardiopulmonary Bypass Intracardiac Suction Control, 21 C.F.R. Sect. 870.4430 (2002).

Hearing:

Arsenic in Drinking Water: An Update on the Science, Benefits and Cost: Hearing Before the Subcomm. on Environment, Technology and Standards of the House Comm. on Science, 107th Cong., 1st Sess. (Oct. 4, 2001).

32. *Map*

Pratt B, Flick P, Vynne C, cartographers. Biodiversity hotspots [map]. Washington: Conservation International; 2000.

33. *Dictionary and similar references*

Dorland's illustrated medical dictionary. 29th ed. Philadelphia: W.B. Saunders; 2000. Filamin; p. 675.

Unpublished Material

34. *In press*

(Note: NLM prefers "forthcoming" because not all items will be printed.)

Tian D, Araki H, Stahl E, Bergelson J, Kreitman M. Signature of balancing selection in Arabidopsis. Proc Natl Acad Sci U S A. In press 2002.

Electronic Material

35. CD-ROM

Anderson SC, Poulsen KB. Anderson's electronic atlas of hematology [CD-ROM]. Philadelphia: Lippincott Williams & Wilkins; 2002.

36. Journal article on the Internet

Aboud S. Quality improvement initiative in nursing homes: the ANA acts in an advisory role. *Am J Nurs* [serial on the Internet]. 2002 Jun [cited 2002 Aug 12];102(6):[about 3 p.]. Available from: <http://www.nursingworld.org/AJN/2002/june/Wawatch.htm>

37. Monograph on the Internet

Foley KM, Gelband H, editors. Improving palliative care for cancer [monograph on the Internet]. Washington: National Academy Press; 2001 [cited 2002 Jul 9]. Available from: <http://www.nap.edu/books/0309074029/html/>.

38. Homepage/Web site

Cancer-Pain.org [homepage on the Internet]. New York: Association of Cancer Online Resources, Inc.; c2000-01 [updated 2002 May 16; cited 2002 Jul 9]. Available from: <http://www.cancer-pain.org/>.

39. Part of a homepage/Web site

American Medical Association [homepage on the Internet]. Chicago: The Association; c1995-2002 [updated 2001 Aug 23; cited 2002 Aug 12]. AMA Office of Group Practice Liaison; [about 2 screens]. Available from: <http://www.ama-assn.org/ama/pub/category/1736.html>

40. Database on the Internet

Open database:

Who's Certified [database on the Internet]. Evanston (IL): The American Board of Medical Specialists. c2000 - [cited 2001 Mar 8]. Available from: <http://www.abms.org/newsearch.asp>

Closed database:

Jablonski S. Online Multiple Congenital Anomaly/Mental Retardation (MCA/MR) Syndromes [database on the Internet]. Bethesda (MD): National Library of Medicine (US). c1999 [updated 2001 Nov 20; cited 2002 Aug 12]. Available from: http://www.nlm.nih.gov/mesh/jablonski/syndrome_title.html

41. Part of a database on the Internet

MeSH Browser [database on the Internet]. Bethesda (MD): National Library of Medicine (US); 2002 - [cited 2003 Jun 10]. Meta-analysis; unique ID: D015201; [about 3 p.]. Available from: <http://www.nlm.nih.gov/mesh/MBrowser.html>

MeSH Browser [database on the Internet]. Bethesda (MD): National Library of Medicine (US); 2002 - [cited 2003 Jun 10]. Meta-analysis; unique ID: D015201; [about 3 p.]. Available from: <http://www.nlm.nih.gov/mesh/MBrowser.html>

Tables

Tables should be typed separately and numbered consecutively with Roman numerals (I, II, III, etc). They should bear brief title and column headings should also be short. Units of measurement should be abbreviated

and placed below the headings. Statistical measurement variations such as SD and SE should be identified. Inclusion of structural formulae in Tables should be avoided. Also, Tables should not be submitted as photographs.

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Colour illustrations are also acceptable.

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Molar (mole/litre)	M*	counts per minute	cpm
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Micromolar (mole/litre)	μM	rad	rad
mole (quantity of substance)	mol	Roentgen	R
normal	N	gravity	<i>g</i>
metre	m	ortho	o
centimetre	cm	meta	m
square centimetre	cm ²	para	p
millimeter	mm	intramuscular	im
micrometre	μm	intraperitoneal	ip
nanometre	nm	intravenous	iv
picometre	pm	subcutaneous	sc
mg/100 ml	mg/dl	oral	po
Angstrom	Å	lethal dose-50	LD ₅₀
litre	l	Ampere	A
millilitre	ml	milli Ampere	mA
microlitre	μl	Watt	W
gram	g	anti meridiem (before noon)	am
milligram	mg	post meridiem (after noon)	pm
kilogram	kg	volume	vol
hour(s)	h	volume ratio	vol/vol
minute(s)	min	(volume per volume)	
second(s)	sec	weight	wt
week(s)	wk	weight per volume	wt/vol
year(s)	yr	weight ratio	wt/wt
revolution per minute	rpm	(weight per weight)	

* Should not be used as an abbreviation for mole

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