DESCRIPTION

The *Journal of Clinical Anesthesia* (JCA) addresses all aspects of anesthesia practice, including anesthetic administration, pharmacokinetics, preoperative and postoperative considerations, coexisting disease and other complicating factors, cost issues, and similar concerns anesthesiologists contend with daily. Exceptionally high standards of presentation and accuracy are maintained.

The core of the journal is original contributions on subjects relevant to clinical practice, and rigorously peer-reviewed. Highly respected international experts have joined together to form the Editorial Board, sharing their years of experience and clinical expertise. Specialized section editors cover the various subspecialties within the field. To keep your practical clinical skills current, the journal bridges the gap between the laboratory and the clinical practice of anesthesiology and critical care to clarify how new insights can improve daily practice.

*JCA* is affiliated with four societies that make it their official journal: Society for Education in Anesthesia (SEA); the American Association of Clinical Directors (AACD); the Society for Airway Management (SAM); and the Orthopedic Anesthesia Pain Rehabilitation Society (OAPRS).

Visit *JCA* Online at URL: [http://www.JCAfulltextonline.com/](http://www.JCAfulltextonline.com/)

IMPACT FACTOR

2016: 1.677 © Thomson Reuters Journal Citation Reports 2017

ABSTRACTING AND INDEXING

Elsevier BIOBASE
Current Contents/Clinical Medicine
MEDLINE®
Medical Documentation Service
EMBASE
Research Alert
SCISEARCH
Scopus
EDITORIAL BOARD

Editor-in-Chief

Gildasio De Oliveira Jr., MD, MSCI, MBA, Anesthesiologist-in-Chief
Rhode Island, Miriam, Hasbro Children's and Newport Hospitals
Brown University
Providence, Rhode Island, USA

Senior Editors

P. Barash, Professor of Anesthesiology
Department of Anesthesia
Yale University School of Medicine, New Haven, Connecticut, USA
S. Gelman, MD, PhD, Leroy Vandam/Benjamin Covino, Professor of Anesthesia, Harvard Medical School,
Department of Anesthesia, Brigham and Women's Hospital, Boston, Massachusetts, USA
R. McCarthy, Professor of Anesthesiology, Northwestern University, Chicago, Illinois, USA
S. Suresh, Arthur C. King Professor and Chair
Ann & Robert H. Lurie Children's Hospital of Chicago
Chicago, Illinois, USA

Founding Editor-in-Chief

J. Kitz, MD, Henry Isaiah Dorr Distinguished Professor, Faculty Dean for Clinical Affairs Committees, Harvard
Medical School, Anesthetist, Massachusetts General Hospital & Harvard Medical School, Boston, Massachusetts,
USA

Emeritus Editor-in-Chief

R. R. Gaiser, MD, MSEd, Chair, Department of Anesthesiology
University of Kentucky
Lexington, Kentucky, USA

Statistical Consultant

Y. Chang, Harvard Medical School, Boston, Massachusetts, USA

Associate Editors

J. Bewaby, MD, Editor, Section on Neurosurgical Anesthesia
Associate Professor of Anesthesiology and Neurological Surgery
Northwestern University
Chicago, Illinois, USA
A. Turan, MD, Editor, Section on Outcomes Research and Large Datasets
Professor of Anesthesiology
Department of Outcomes Research
Cleveland Clinic
Cleveland, Ohio, USA
A. Niesen, MD, Editor, Section on Regional Anesthesia
Mayo Clinic Rochester
Rochester, Minnesota, USA
A. L. Calimaran, MD, Editor, Section on Obstetrical Anesthesia
University of Mississippi Medical Center
Jackson, Mississippi, USA
S.K. Ramachandran, MD, Editor, Section on Respiratory and Airway
Assistant Professor of Anesthesiology
Harvard Medical School
Vice Chair for Quality, Safety, and Innovation
Department of Anesthesiology
Beth Israel Deaconess Medical Center
Boston, Massachusetts, USA
N. Jagannathan, MD, Editor, Section on Pediatric Anesthesia
Associate Professor and Vice Chair for Academic Affairs
Ann & Robert H. Lurie Children’s Hospital of Chicago
Chicago, Illinois, USA
F. Dexter, Editor, Section on Operating Room Management and Economics
Professor, Department of Anesthesia
Director, Division of Management Consulting
University of Iowa
Iowa City, Iowa, USA

The International Board of Editors

J. G. Augoustides, Philadelphia, Pennsylvania, USA
GUIDE FOR AUTHORS

Be advised that our average review period is now fewer than thirty days.

The Journal of Clinical Anesthesia (JCA) publishes definitive, peer-reviewed articles devoted to the clinical practice of anesthesia. The JCA should be a participant in continuing education of clinicians, forecast important issues and trends in anesthesia, and foster responsible debate on controversial issues. As an international journal, it encourages cross-communication between different cultures, informing our readers about medical and sometimes nonmedical journalism, and provides enjoyable reading. Advertising between the pages of editorial content is not permitted.

Submission checklist
You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

Ensure that the following items are present:

One author has been designated as the corresponding author with contact details:
- E-mail address
- Full postal address

All necessary files have been uploaded:
Manuscript:
- Include keywords
- All figures (include relevant captions)
- All tables (including titles, description, footnotes)
- Ensure all figure and table citations in the text match the files provided
- Indicate clearly if color should be used for any figures in print

Graphical Abstracts / Highlights files (where applicable)

Supplemental files (where applicable)

Further considerations
- Manuscript has been 'spell checked' and 'grammar checked'
- All references mentioned in the Reference List are cited in the text, and vice versa
- Permission has been obtained for use of copyrighted material from other sources (including the Internet)
- A competing interests statement is provided, even if the authors have no competing interests to declare
- Journal policies detailed in this guide have been reviewed
- Referee suggestions and contact details provided, based on journal requirements

For further information, visit our Support Center.

BEFORE YOU BEGIN

Ethics in publishing
Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

Declaration of interest
All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential conflicts of interest include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. If there are no conflicts of interest then please state this: 'Conflicts of interest: none'. More information.

Funding sources and corporate or institutional associations must be acknowledged on the title page of the submitted article. In the cover letter accompanying the manuscript, provide the names of associations, consultancies, individual philanthropists, stock ownership, or other equity interest (e.g., patent or licensing arrangements). If the manuscript is accepted for publication, disclosure of this information will be discussed with the author(s).
Submission declaration and verification
Submission of an article implies that the work described has not been published previously (except in the form of an abstract or as part of a published lecture or academic thesis or as an electronic preprint, see 'Multiple, redundant or concurrent publication' section of our ethics policy for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder. To verify originality, your article may be checked by the originality detection service CrossCheck.

Authorship
All authors should have made substantial contributions to all of the following: (1) the conception and design of the study, or acquisition of data, or analysis and interpretation of data, (2) drafting the article or revising it critically for important intellectual content, (3) final approval of the version to be submitted.

Changes to authorship
Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only before the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the corresponding author: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed.

Copyright
Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (see more information on this). An e-mail will be sent to the corresponding author confirming receipt of the manuscript together with a 'Journal Publishing Agreement' form or a link to the online version of this agreement.

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the Publisher is required for resale or distribution outside the institution and for all other derivative works, including compilations and translations. If excerpts from other copyrighted works are included, the author(s) must obtain written permission from the copyright owners and credit the source(s) in the article. Elsevier has preprinted forms for use by authors in these cases.

For open access articles: Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' (more information). Permitted third party reuse of open access articles is determined by the author's choice of user license.

Author rights
As an author you (or your employer or institution) have certain rights to reuse your work. More information.

Acceptable Secondary Publication
Secondary publication in the same or another language, especially in other countries, is justifiable, and can be beneficial, provided all of the following conditions are met:
The authors have received approval from the editors of both journals; the editor concerned with secondary publication must have a photocopy, reprint, or manuscript of the primary version. The priority of the primary publication is respected by a publication interval of at least one week (unless specifically negotiated otherwise by both editors). The paper for secondary publication is intended for a different group of readers; an abbreviated version could be sufficient. The secondary version reflects faithfully the data and interpretations of the primary version. A footnote on the title page of
the secondary version informs readers, peers, and documenting agencies that the paper has been published in whole or in part, and states the primary reference. A suitable footnote might read: "This article is based on a study first reported in [title of journal, with full reference]."

Permission for such secondary publication should be free of charge.

Elsevier supports responsible sharing
Find out how you can share your research published in Elsevier journals.

Role of the funding source
You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article and to briefly describe the role of the sponsor(s), if any, in study design; in the collection, analysis and interpretation of data; in the writing of the report; and in the decision to submit the article for publication. If the funding source(s) had no such involvement then this should be stated.

Funding body agreements and policies
Elsevier has established a number of agreements with funding bodies which allow authors to comply with their funder's open access policies. Some funding bodies will reimburse the author for the Open Access Publication Fee. Details of existing agreements are available online.

After acceptance, open access papers will be published under a noncommercial license. For authors requiring a commercial CC BY license, you can apply after your manuscript is accepted for publication.

Open access
This journal offers authors a choice in publishing their research:

Open access
• Articles are freely available to both subscribers and the wider public with permitted reuse.
• An open access publication fee is payable by authors or on their behalf, e.g. by their research funder or institution.

Subscription
• Articles are made available to subscribers as well as developing countries and patient groups through our universal access programs.
• No open access publication fee payable by authors.

Regardless of how you choose to publish your article, the journal will apply the same peer review criteria and acceptance standards.

For open access articles, permitted third party (re)use is defined by the following Creative Commons user licenses:

Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND)
For non-commercial purposes, let others distribute and copy the article, and to include in a collective work (such as an anthology), as long as they credit the author(s) and provided they do not alter or modify the article.

The open access publication fee for this journal is USD 2500, excluding taxes. Learn more about Elsevier's pricing policy: http://www.elsevier.com/openaccesspricing.

Green open access
Authors can share their research in a variety of different ways and Elsevier has a number of green open access options available. We recommend authors see our green open access page for further information. Authors can also self-archive their manuscripts immediately and enable public access from their institution's repository after an embargo period. This is the version that has been accepted for publication and which typically includes author-incorporated changes suggested during submission, peer review and in editor-author communications. Embargo period: For subscription articles, an appropriate amount of time is needed for journals to deliver value to subscribing customers before an article becomes freely available to the public. This is the embargo period and it begins from the date the article is formally published online in its final and fully citable form. Find out more.

This journal has an embargo period of 12 months.
The Elsevier Publishing Campus (www.publishingcampus.com) is an online platform offering free lectures, interactive training and professional advice to support you in publishing your research. The College of Skills training offers modules on how to prepare, write and structure your article and explains how editors will look at your paper when it is submitted for publication. Use these resources, and more, to ensure that your submission will be the best that you can make it.

Language (usage and editing services)
Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier's WebShop.

Informed consent and patient details
Studies on patients or volunteers require ethics committee approval and informed consent, which should be documented in the paper. Appropriate consents, permissions and releases must be obtained where an author wishes to include case details or other personal information or images of patients and any other individuals in an Elsevier publication. Written consents must be retained by the author and copies of the consents or evidence that such consents have been obtained must be provided to Elsevier on request. For more information, please review the Elsevier Policy on the Use of Images or Personal Information of Patients or other Individuals. Unless you have written permission from the patient (or, where applicable, the next of kin), the personal details of any patient included in any part of the article and in any supplementary materials (including all illustrations and videos) must be removed before submission.

In all manuscripts reporting the results of human studies, a statement must appear in the Materials and Methods section indicating that approval was obtained from the institutional review board (IRB) and that all human subjects signed written informed consent. Cite in the text the full (hospital) name of the IRB.

Submission
Our online submission system guides you stepwise through the process of entering your article details and uploading your files. The system converts your article files to a single PDF file used in the peer-review process. Editable files (e.g., Word, LaTeX) are required to typeset your article for final publication. All correspondence, including notification of the Editor's decision and requests for revision, is sent by e-mail.

Submit your article
Please submit your article via http://ees.elsevier.com/jca.

Authors who are unable to provide an electronic version or have other circumstances that prevent online submission must contact the Editorial Office prior to submission to discuss alternate options. The Publisher and Editors regret that they are not able to consider submissions that do not follow these procedures.

PREPARATION

Manuscript submission preparation
Authors must upload the following items as separate files: a cover letter, an abstract, the manuscript, and any tables, figures, and figure legends. Revised or resubmitted manuscripts should also include a transmittal letter, explaining how the author has dealt with each of the reviewer's and Editor's comments, and this letter should be uploaded as a 'Revision Comments' file on the system.

- Provide a cover letter indicating the name, address, tel., fax, and e-mail addresses of the individual to whom correspondence and questions should be directed. Include a statement that the contents have not been published elsewhere and the paper is not being submitted elsewhere. Also indicate that the manuscript has been read and approved by all co-authors. Finally, indicate to which category of publication the author is submitting the article: Original Contribution, Editorial, Case Report, Pharmacologic Review, Special Article (history, art, politics, etc.), or Letter to the Editor.

- Provide a transmittal letter explaining the name, address, tel., fax, and e-mail addresses of the individual to whom correspondence and questions should be directed. Include a statement that the contents have not been published elsewhere and the paper is not being submitted elsewhere. Also indicate that the manuscript has been read and approved by all co-authors. Finally, indicate to which category of publication the author is submitting the article: Original Contribution, Editorial, Case Report, Pharmacologic Review, Special Article (history, art, politics, etc.), or Letter to the Editor.

- Arrange the manuscript in the following order: title page, abstract (structured abstract if the work is an Original contribution only), text, acknowledgments, references, tables, illustrations, and legends for illustrations.

- Text: Arrange the body of the manuscript in the following order, with each component beginning on a new page: Abstract, Introduction, Materials and Methods, Results, Discussion.
• Number the pages in sequence, with the title page as page 1, the (structured) abstract as page 2, etc., with the page number in the upper right-hand corner.

**Peer review**
This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor’s decision is final. [More information on types of peer review.]

**Use of word processing software**
It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.
To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

**Article structure**

**Subdivision - numbered sections**
Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

**Introduction**
State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

**Materials and Methods**
A clear and precise description of the experiment and the subjects from whom the data were derived. If subjects were randomized, describe the methods of randomization used. Identify all drugs and chemicals used, dosages, and routes of administration. Define all statistical methods used and, if appropriate, statistical references. Identify the name and address of the statistician who reviewed the data, if appropriate.

**Results**
A factual account of the study's findings. Present these as logically appropriate in text, tables, or illustrations; do not repeat in the text what is demonstrated in a table or illustration.

**Discussion**
A summary emphasizing new and important aspects of the study's conclusions. Ensure that all conclusions are justified by the results of the study. Identify the implications of the findings and their limitations, including implications for future research. Look at the pros and cons of the methods and results. Compare the implications and limitations of these findings with those reported in other essential studies. State new hypotheses when warranted, but clearly label them as such. Recommendations, where appropriate, may be included.

**Appendices**
If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

**Essential Title Page Information**
- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
- **Author names and affiliations.** Give the first name, middle initial, and last name of all authors. Where the family name may be ambiguous (e.g., a double name), please indicate this clearly. List each author's highest academic degree in parentheses after their name. Present the authors' affiliation
addresses (where the actual work was done) below the names. Indicate all affiliations with a lowercase superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.

- **Corresponding author.** Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. Ensure that phone numbers (with country and area code) are provided in addition to the e-mail address and the complete postal address. Contact details must be kept up to date by the corresponding author.

- **Present/permanent address.** If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

- **Running title.** Provide a running title of up to 50 characters.

- **Disclosures.** Acknowledge grants, sponsors, and funding sources that provided direct financial support to the research work contained in the manuscript.

**Abstract**

A concise and factual abstract is required for all article types except Editorials and Letters to the Editor. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

All Original Contributions require a structured abstract of up to 300 words, which clearly states the following (use these subheadings):

- **Study Objective.**
- **Design.** The type of study conducted.
- **Setting.** e.g., delivery room, postoperative recovery area, operating room
- **Patients.** i.e., number studied, their ASA physical status, the nature of their procedure and illness
- **Interventions.** What was done to the patients on behalf of the study.
- **Measurements** e.g., blood pressure, heart rate, resp. rate values collected
- **Main Results.** The study’s principal finding of interest.
- **Conclusions.** Based on the kinds of patients studied and the interventions used, what conclusions may be drawn from the main findings of interest.

The structured abstract should provide key information and be informative on its own, although it should not include discussion of pros and cons, limitations, or justifications of the study.

**Graphical abstract**

Although a graphical abstract is optional, its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view Example Graphical Abstracts on our information site.

Authors can make use of Elsevier’s Illustration Services to ensure the best presentation of their images and in accordance with all technical requirements.

**Highlights**

Highlights are mandatory for this journal. They consist of a short collection of bullet points that convey the core findings of the article and should be submitted in a separate editable file in the online submission system. Please use ‘Highlights’ in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point). You can view example Highlights on our information site.

**Keywords**

Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. Use terms from the U.S. Library of Medicine’s Medical Subject Headings (MeSH) Annotated Alphabetical List for indexing purposes in Index Medicus.
Acknowledgements
Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., assisted with the study or with manuscript preparation, including statistical review, by providing language help, writing assistance, or proof reading the article, etc.).

Formatting of funding sources
List funding sources in this standard way to facilitate compliance to funder's requirements:

Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzz]; and the United States Institutes of Peace [grant number aaaa].

It is not necessary to include detailed descriptions on the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.

If no funding has been provided for the research, please include the following sentence:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

Units
Follow internationally accepted rules and conventions: use the international system of units (SI). If other units are mentioned, please give their equivalent in SI.

Math formulae
Please submit math equations as editable text and not as images. Present simple formulae in line with normal text where possible and use the solidus (/) instead of a horizontal line for small fractional terms, e.g., X/Y. In principle, variables are to be presented in italics. Powers of e are often more conveniently denoted by exp. Number consecutively any equations that have to be displayed separately from the text (if referred to explicitly in the text).

Footnotes
Footnotes should be used sparingly. Number them consecutively throughout the article. Many word processors can build footnotes into the text, and this feature may be used. Otherwise, please indicate the position of footnotes in the text and list the footnotes themselves separately at the end of the article. Do not include footnotes in the Reference list.

Artwork
Electronic artwork
General points
• Make sure you use uniform lettering and sizing of your original artwork.
• Embed the used fonts if the application provides that option.
• Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol, or use fonts that look similar.
• Number the illustrations according to their sequence in the text.
• Use a logical naming convention for your artwork files.
• Provide captions to illustrations separately.
• Size the illustrations close to the desired dimensions of the published version.
• Submit each illustration as a separate file.
A detailed guide on electronic artwork is available.

You are urged to visit this site; some excerpts from the detailed information are given here.

Formats
If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format.
Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):
• EPS (or PDF): Vector drawings, embed all used fonts.
• TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.
• TIFF (or JPEG): Bitmapped (pure black & white pixels) line drawings, keep to a minimum of 1000 dpi.
TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale), keep to a minimum of 500 dpi.

Please do not:
- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
- Supply files that are too low in resolution;
- Submit graphics that are disproportionately large for the content.

Further considerations
- A figure and its legend should be sufficiently informative that the results can be understood without reference to the text. In the legend, identify and define all abbreviations, symbols, arrows, and illustration parts.
- The preferred point symbols are open circle, open square, open triangle, filled circle, filled square, filled triangle. The preferred shadings are black, white and bold hatching. Avoid stippling, which does not reproduce well. The preferred font for axis labels and keys is Arial.
- Ticks should be drawn outside the figure axes; they should not be extended to form lines across the whole figure.
- Number figures consecutively in Arabic numerals.
- In the editorial text, abbreviate 'Figure' to 'Fig.' and 'Figures' to 'Figs.' except when starting a sentence.

Color artwork
Please make sure that artwork files are in an acceptable format (TIFF (or JPEG), EPS (or PDF), or MS Office files) and with the correct resolution. If, together with your accepted article, you submit usable color figures then Elsevier will ensure, at no additional charge, that these figures will appear in color online (e.g., ScienceDirect and other sites) regardless of whether or not these illustrations are reproduced in color in the printed version. For color reproduction in print, you will receive information regarding the costs from Elsevier after receipt of your accepted article. Please indicate your preference for color: in print or online only. Further information on the preparation of electronic artwork.

Illustration services
Elsevier's WebShop offers Illustration Services to authors preparing to submit a manuscript but concerned about the quality of the images accompanying their article. Elsevier's expert illustrators can produce scientific, technical and medical-style images, as well as a full range of charts, tables and graphs. Image 'polishing' is also available, where our illustrators take your image(s) and improve them to a professional standard. Please visit the website to find out more.

Tables
Each table should be uploaded as a separate file. Number tables consecutively in accordance with their appearance in the text. Abbreviations may be used to simplify a table; define all abbreviations in a single footnote. Place footnotes to tables below the table body and indicate them with superscript lowercase letters. Identify statistical measures of variation such as standard deviation and standard error of the mean. Avoid vertical rules. Be sparing in the use of tables and ensure that the data presented in tables do not duplicate results described elsewhere in the article.

References
Citation in text
Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

Reference links
Increased discoverability of research and high quality peer review are ensured by online links to the sources cited. In order to allow us to create links to abstracting and indexing services, such as Scopus, CrossRef and PubMed, please ensure that data provided in the references are correct. Please note that incorrect surnames, journal/book titles, publication year and pagination may prevent link creation. When copying references, please be careful as they may already contain errors. Use of the DOI is encouraged.
A DOI can be used to cite and link to electronic articles where an article is in-press and full citation details are not yet known, but the article is available online. A DOI is guaranteed never to change, so you can use it as a permanent link to any electronic article. An example of a citation using DOI for an article not yet in an issue is: VanDecar J.C., Russo R.M., James D.E., Ambeh W.B., Franke M. (2003). Aseismic continuation of the Lesser Antilles slab beneath northeastern Venezuela. Journal of Geophysical Research, https://doi.org/10.1029/2001JB000884. Please note the format of such citations should be in the same style as all other references in the paper.

Web references
As a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (DOI, author names, dates, reference to a source publication, etc.), should also be given. Web references can be listed separately (e.g., after the reference list) under a different heading if desired, or can be included in the reference list.

Data references
This journal encourages you to cite underlying or relevant datasets in your manuscript by citing them in your text and including a data reference in your Reference List. Data references should include the following elements: author name(s), dataset title, data repository, version (where available), year, and global persistent identifier. Add [dataset] immediately before the reference so we can properly identify it as a data reference. The [dataset] identifier will not appear in your published article.

Reference management software
Most Elsevier journals have their reference template available in many of the most popular reference management software products. These include all products that support Citation Style Language styles, such as Mendeley and Zotero, as well as EndNote. Using the word processor plug-ins from these products, authors only need to select the appropriate journal template when preparing their article, after which citations and bibliographies will be automatically formatted in the journal’s style. If no template is yet available for this journal, please follow the format of the sample references and citations as shown in this Guide.

Users of Mendeley Desktop can easily install the reference style for this journal by clicking the following link:
http://open.mendeley.com/use-citation-style/journal-of-clinical-anesthesia
When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

Reference style
Text: Indicate references by number(s) in square brackets in line with the text. The actual authors can be referred to, but the reference number(s) must always be given.

List: Number the references (numbers in square brackets) in the list in the order in which they appear in the text.
Examples:
Reference to a journal publication:
Reference to a book:
Reference to a chapter in an edited book:
Reference to a website:
Reference to a dataset:
Note shortened form for last page number. e.g., 51–9, and that for more than 6 authors the first 6 should be listed followed by 'et al.' For further details you are referred to 'Uniform Requirements for Manuscripts submitted to Biomedical Journals' (J Am Med Assoc 1997;277:927–34) (see also Samples of Formatted References).
**Video**

Elsevier accepts video material and animation sequences to support and enhance your scientific research. Authors who have video or animation files that they wish to submit with their article are strongly encouraged to include links to these within the body of the article. This can be done in the same way as a figure or table by referring to the video or animation content and noting in the body text where it should be placed. All submitted files should be properly labeled so that they directly relate to the video file's content. In order to ensure that your video or animation material is directly usable, please provide the files in one of our recommended file formats with a preferred maximum size of 150 MB in total. Any single file should not exceed 50 MB. Video and animation files supplied will be published online in the electronic version of your article in Elsevier Web products, including ScienceDirect. Please supply 'stills' with your files: you can choose any frame from the video or animation or make a separate image. These will be used instead of standard icons and will personalize the link to your video data. For more detailed instructions please visit our video instruction pages. Note: since video and animation cannot be embedded in the print version of the journal, please provide text for both the electronic and the print version for the portions of the article that refer to this content.

**Supplementary material**

Supplementary material such as applications, images and sound clips, can be published with your article to enhance it. Submitted supplementary items are published exactly as they are received (Excel or PowerPoint files will appear as such online). Please submit your material together with the article and supply a concise, descriptive caption for each supplementary file. If you wish to make changes to supplementary material during any stage of the process, please make sure to provide an updated file. Do not annotate any corrections on a previous version. Please switch off the 'Track Changes' option in Microsoft Office files as these will appear in the published version.

**RESEARCH DATA**

This journal encourages and enables you to share data that supports your research publication where appropriate, and enables you to interlink the data with your published articles. Research data refers to the results of observations or experimentation that validate research findings. To facilitate reproducibility and data reuse, this journal also encourages you to share your software, code, models, algorithms, protocols, methods and other useful materials related to the project.

Below are a number of ways in which you can associate data with your article or make a statement about the availability of your data when submitting your manuscript. If you are sharing data in one of these ways, you are encouraged to cite the data in your manuscript and reference list. Please refer to the "References" section for more information about data citation. For more information on depositing, sharing and using research data and other relevant research materials, visit the research data page.

**Data linking**

If you have made your research data available in a data repository, you can link your article directly to the dataset. Elsevier collaborates with a number of repositories to link articles on ScienceDirect with relevant repositories, giving readers access to underlying data that gives them a better understanding of the research described.

There are different ways to link your datasets to your article. When available, you can directly link your dataset to your article by providing the relevant information in the submission system. For more information, visit the database linking page.

For supported data repositories a repository banner will automatically appear next to your published article on ScienceDirect.

In addition, you can link to relevant data or entities through identifiers within the text of your manuscript, using the following format: Database: xxxx (e.g., TAIR: AT1G01020; CCDC: 734053; PDB: 1XFN).

**Mendeley Data**

This journal supports Mendeley Data, enabling you to deposit any research data (including raw and processed data, video, code, software, algorithms, protocols, and methods) associated with your manuscript in a free-to-use, open access repository. During the submission process, after uploading your manuscript, you will have the opportunity to upload your relevant datasets directly to Mendeley Data. The datasets will be listed and directly accessible to readers next to your published article online.
For more information, visit the Mendeley Data for journals page.

**Data statement**

To foster transparency, we encourage you to state the availability of your data in your submission. This may be a requirement of your funding body or institution. If your data is unavailable to access or unsuitable to post, you will have the opportunity to indicate why during the submission process, for example by stating that the research data is confidential. The statement will appear with your published article on ScienceDirect. For more information, visit the Data Statement page.

**AudioSlides**

The journal encourages authors to create an AudioSlides presentation with their published article. AudioSlides are brief, webinar-style presentations that are shown next to the online article on ScienceDirect. This gives authors the opportunity to summarize their research in their own words and to help readers understand what the paper is about. More information and examples are available. Authors of this journal will automatically receive an invitation e-mail to create an AudioSlides presentation after acceptance of their paper.

**Formatting of text**

- Type all manuscripts with double line spacing and aligned left, including the abstract, references, and figure legends.
- Use Times New Roman 12-point font/size.
- Manuscripts should have continuous line numbers, page numbers, and wide margins throughout (including the abstract, references, figure legends, and tables).
- Indent each new paragraph.
- Use two returns to end headings and paragraphs.
- Do not use lower-case 'I' (el) for '1' (one) or 'O'(oh) for '0' (zero); they have different typesetting values.

**AFTER ACCEPTANCE**

**Online proof correction**

Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors.

If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.

We will do everything possible to get your article published quickly and accurately. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to the article as accepted for publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility.

**Additional Information**

The Journal's Editor-in-Chief is Robert R. Gaiser, MD. Direct questions to the editorial office at (508) 540-2197; Fax (508) 540-2714; E-mail jclinanes@comcast.net.

**AUTHOR INQUIRIES**

Visit the Elsevier Support Center to find the answers you need. Here you will find everything from Frequently Asked Questions to ways to get in touch.

You can also check the status of your submitted article or find out when your accepted article will be published.