TABLE OF CONTENTS

- Description p.1
- Impact Factor p.1
- Abstracting and Indexing p.1
- Editorial Board p.1
- Guide for Authors p.5

DESCRIPTION

The Journal of Electrocardiology is devoted exclusively to clinical and experimental studies of the electrical activities of the heart. It seeks to contribute significantly to the accuracy of diagnosis and prognosis and the effective treatment, prevention, or delay of heart disease. Editorial contents include electrocardiography, vectorcardiography, arrhythmias, membrane action potential, cardiac pacing, monitoring defibrillation, instrumentation, drug effects, and computer applications.

Benefits to authors

We also provide many author benefits, such as free PDFs, a liberal copyright policy, special discounts on Elsevier publications and much more. Please click here for more information on our author services.

Please see our Guide for Authors for information on article submission. If you require any further information or help, please visit our Support Center.

IMPACT FACTOR

2017: 1.421 © Clarivate Analytics Journal Citation Reports 2018

ABSTRACTING AND INDEXING

Scopus

EDITORIAL BOARD

Editor-in-Chief
Adrian Baranchuk, Canada

Editor-in-Chief Emeritus
Galen Wagner, Durham, North Carolina, USA

Managing Editor
Beverly A. Perkins, Durham, NC, USA
**Social Media Editor**
Sohaib Haseeb, Canada

**Executive Editors**
Brett D. Atwater, Durham, North Carolina, USA
Ljuba Bacharova, Bratislava, Slovakia
Leonard S. Gettes, Chapel Hill, North Carolina, USA
Zachary D. Goldberger, Seattle, Washington, USA
Nora Goldschlager, San Francisco, California, USA
Anton Gorgels, Maastricht, Netherlands
Ihor Gussak, New Brunswick, New Jersey, USA
Nina Hakacova, Lund, Sweden
Olle Pahlm, Lund, Sweden
Merritt Raitt, Portland, Oregon, USA
Cees Swenne, Leiden, Netherlands

**Junior Editor**
Pavel Antiperovitch, Canada

**Honorary Editors**
Antoni Bayés de Luna, Barcelona, Spain
Hein Wellens, Netherlands

**Special Section Editors**
Allied Professionals in Electrocardiology
Nora Goldschlager, USA
Damian Longo, Argentina

Antiarrhythmic Drugs & Electrocardiology
Takanori Ikeda, Japan

Clinical Electrocardiology
Martin Green, Canada
Pyotr Platonov, Sweden

Electrocardiology and Autonomic Nervous System
Richard Verrier, USA

Electrocardiology and Cardiac Devices
Oswaldo Gutierrez, Costa Rica

Electrocardiology and Computing/Engineering
Robert MacLeod, USA
Mark Potse, France

Electrocardiology and Extended Cardiac Monitoring
Przyemyslaw Guzik, Poland
Niraj Varma, USA

Electrocardiology and Electrophysiology
Andres Enriquez, Chile
George Veenhuyzen, Canada

Electrocardiology and Genetics/Inherited Arrhythmia Disorders
Hector Barajas-Martinez, USA
Ihor Gussak, USA

Electrocardiology in Sports
Jonathan Drezner, USA

Electrocardiology of Ischemia
Yochai Birnbaum, USA
Kjell Nikus, Finland

Epidemiology in Electrocardiology
Antonio Luiz Ribeiro, Brazil
History of Electrocardiology
Antoni Bayes de Luna, Spain
Prof. B. Luderitz, Deutschland

Medical Education in Electrocardiology
Jeronimo Farre, Spain
Mohammad Shenasa, USA

The Residents and Fellows Corner
Bryce Alexander, Canada
William F. McIntyre (Coordinator), Canada
Cynthia Yeung, Canada

Vectorcardiography
Larisa G. Tereshchenko, USA

Editorial Board
Shimon Abboud
Jennifer Adgey
Olujimi Ajijola
Toshio Akiyama
Alberto Alfie
Charles Antzelevitch
Fabio Badilini
Alejandro Barbagelata
Serge Barold
Axel Bauer
Lennart Bergfeldt
Raymond Bond
Mary Carey
Bernard Chaitman
Lovely Chhabra
Boon-Lock Chia
Eugene Chung
Peter Clemmensen
Jean-Philippe Couderc
James Daubert
Luigi De Ambroggi
Dario DiToro
Mary Dohrmann
Barbara Drew
Eric Eisenstein
Henrik Engblom
Vidal Essebag
Harvey Estes
Fabrice Extramiana
Dewar Finlay
Miguel Fiol
Victor Froelicher
Bulent Gorenek
Richard Gregg
Majid Haghjoo
Wesley K. Haisty
David Hampton
Masayasu Hiraoka
Irwin Hoffman
Milan Horacek
Jose Joglar
Per Johanson
Egle Kalinauskienë
Paul Kligfield
Jan Kors
Konstantios P. Letsas
Federico Lombardi
Robert Lux
Peter Macfarlane
John E. Madias
Marek Malik
Frank Marcus
Manuel Martinez-Selles
Charles Maynard
Simon Meij
J. Paul Mounsey
Stefan Nelwan
Carlos Alberto Pastore
Christian Perzanowski
Pieter Postema
Pentti Rautaharju
Tsuneaki Sadanaga
Nelson Samesima
Elsayed Soliman
Claire Sommargren
Leif Sörnmo
Mykhaylo Sorokivsky
Phyllis Stein
Jonathan Steinberg
David Strauss
Albert Sun
Gary Tse
Joey Ubachs
Martin Ugander
John Wang
Robert Warner
Hein Wellens
Wojciech Zareba
Sophia Zhou

Founding Editors
Eugene Lepeschkin
Zang A. Zao
GUIDE FOR AUTHORS

The Journal of Electrocardiology is devoted exclusively to clinical and experimental studies of the electrical activity of the heart. It seeks to contribute significantly to the accuracy of diagnosis and prognosis and the effective treatment or prevention of heart disease. The contents include electrocardiography, vectorcardiography, arrhythmias, pacing, basic and clinical electrophysiology, monitoring, defibrillation, instrumentation, drug effects, and computer applications.

Article Types

Original Research articles should be limited to 5,000 words and a maximum of 40 references, the rest would be online. When necessary, authors may submit an additional "Suggested Reading" list to be published online only.

Review articles should contain the most significant aspects and achievements in the reviewed scientific area. The review itself should not be a gathering of detailed information but present a summarization of critically selected and evaluated literature which should reflect the most important findings. The review article should be divided into the following sections: title page, introduction, review, conclusions, supporting information, clinical significance and references. The review article should be limited to 10 to 15 double-spaced pages (including text, references, and figure legends), 3 illustrations, and a maximum of 40 references, the rest would be online.

Mini Reviews: Invitation only, but proposals can be sent to Dr. Adrian Baranchuk at barancha@kgh.kari.net - 1000 words, 2 figure/tables, 8 references, 4 authors.

Book Review: Invitation only, but proposals can be sent to Dr. Adrian Baranchuk at barancha@kgh.kari.net - 800 words, 2 figures (cover and/or author's picture), 4 references (including the book), 2 authors.

Technical articles should contain full-length reviews of new cardiovascular technologies, methods, or new clinical guidelines that are developed for potential widespread clinical use. The technical article should be divided into the following sections: 1. introduction (a brief summary of the "technology" with its clinical use highlighted), 2. history of development, 3. description (including how it is used), 4. clinical role (how it adds to other more established techniques, potential implementation into guidelines, and those clinical questions that it is unable to answer or that are better answered by other means), 5. current problems, 6. future developments, and 7. conclusion. The technical article should be limited to 10 to 15 double-spaced pages (including text, references, and figure legends), and 25 references.

Case Reports and other Short Communication should be limited to 3 to 5 pages (including text, references, figure legends, tables, figures, etc.) and 8 references. The abstract should not exceed 100 words.

Letters to the Editor regarding articles published in the Journal or current topics of interest are welcome. A letter should not exceed 1,000 words in length and must be limited to 3 authors and 5 references. Authors of the original article cited in the letter will be invited to reply. Letters to the editor should be submitted via the online manuscript submission process. An expedited peer review process will be used and accepted letters will be published in the "Journal" section in the next available issue.

Editorial should be limited to 4 double-spaced pages (including only one figure or table and 10 references). It may include only one co-author.

Beyond the ECG is intended for topics of general interest not necessarily related to Electrocardiography. Invitation only, but proposals can be sent to Dr. Adrian Baranchuk at barancha@kgh.kari.net - 1000 words, 2 figure/tables, 8 references, 4 authors.

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 competing interests include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. Authors must disclose any interests in two places: 1. A summary declaration of interest statement in the title page file (if double-blind) or the manuscript file (if single-blind). If there are no interests to declare then please state this: 'Declarations of interest: none'. This summary statement will be ultimately published if the article is accepted.
2. Detailed disclosures as part of a separate Declaration of Interest form, which forms part of the journal's official records. It is important for potential interests to be declared in both places and that the information matches. More information.

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, a published lecture or academic thesis, see 'Multiple, redundant or concurrent publication' 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 Crossref Similarity Check.

Preprints
Please note that preprints can be shared anywhere at any time, in line with Elsevier's sharing policy. Sharing your preprints e.g. on a preprint server will not count as prior publication (see 'Multiple, redundant or concurrent publication' for more information).

Use of inclusive language
Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Articles should make no assumptions about the beliefs or commitments of any reader, should contain nothing which might imply that one individual is superior to another on the grounds of race, sex, culture or any other characteristic, and should use inclusive language throughout. Authors should ensure that writing is free from bias, for instance by using 'he or she', 'his/her' instead of 'he' or 'his', and by making use of job titles that are free of stereotyping (e.g. 'chairperson' instead of 'chairman' and 'flight attendant' instead of 'stewardess').
**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. Only in exceptional circumstances will the Editor consider the addition, deletion or rearrangement of authors after the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.

**Article transfer service**
This journal is part of our Article Transfer Service. This means that if the Editor feels your article is more suitable in one of our other participating journals, then you may be asked to consider transferring the article to one of those. If you agree, your article will be transferred automatically on your behalf with no need to reformat. Please note that your article will be reviewed again by the new journal. More information.

**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 gold 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 gold 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.

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 gold 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:

**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.
- The Author is entitled to post the accepted manuscript in their institution's repository and make this public after an embargo period (known as green Open Access). The published journal article cannot be shared publicly, for example on ResearchGate or Academia.edu, to ensure the sustainability of peer-reviewed research in journal publications. The embargo period for this journal can be found below.

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

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

For gold 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, lets 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 gold open access publication fee for this journal is **USD 2500**, excluding taxes. Learn more about Elsevier's pricing policy: [https://www.elsevier.com/openaccesspricing](https://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.

**Elsevier Researcher Academy**
Researcher Academy is a free e-learning platform designed to support early and mid-career researchers throughout their research journey. The "Learn" environment at Researcher Academy offers several interactive modules, webinars, downloadable guides and resources to guide you through the process of writing for research and going through peer review. Feel free to use these free resources to improve your submission and navigate the publication process with ease.

**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.
but copies should not be provided to the journal. Only if specifically requested by the journal in exceptional circumstances (for example if a legal issue arises) the author must provide copies of the consents or evidence that such consents have been obtained. 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.

**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 [https://www.evise.com/profile/#/JECG/login](https://www.evise.com/profile/#/JECG/login).

**Offline Submission**

Should you presently be unable to take advantage of online submission and review, please contact the editorial office.

Offline manuscripts and editorial communications should be sent to:

Journal of Electrocardiology  
Beverly Perkins, Managing Editor  
9340 NC Hwy 57  
Rougemont, NC 27572  
Tel: 919-316-0494  
Alt Tel: 919-668-8826  
Fax: 919-668-7079  
Email: jelectrocardiology@gmail.com

**Referees**

Please submit the names and institutional e-mail addresses of several potential referees. For more details, visit our [Support site](https://www.evise.com/profile/#/JECG/login). Note that the editor retains the sole right to decide whether or not the suggested reviewers are used.

**PREPARATION**

**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 - unnumbered sections**

Divide your article into clearly defined sections. Each subsection is given a brief heading. Each heading should appear on its own separate line. Subsections should be used as much as possible when cross-referencing text: refer to the subsection by heading as opposed to simply 'the text'.

**Introduction**

State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.
Material and methods
Provide sufficient details to allow the work to be reproduced by an independent researcher. Methods that are already published should be summarized, and indicated by a reference. If quoting directly from a previously published method, use quotation marks and also cite the source. Any modifications to existing methods should also be described.

Results
Results should be clear and concise.

Discussion
This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

Conclusions
The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

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. Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. You can add your name between parentheses in your own script behind the English transliteration. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case 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. This responsibility includes answering any future queries about Methodology and Materials. Ensure that the e-mail address is given and that contact details are 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.

Structured abstract
A structured abstract, by means of appropriate headings, should provide the context or background for the research and should state its purpose, basic procedures (selection of study subjects or laboratory animals, observational and analytical methods), main findings (giving specific effect sizes and their statistical significance, if possible), and principal conclusions. It should emphasize new and important aspects of the study or observations.

Abstracts should be no more than 250 words long.

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. These keywords will be used for indexing purposes.

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., 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.

Whenever possible, figures should be sized to fit in one column (3¼ inches wide).

**Electrocardiograms.** Images should be scanned at a minimum resolution of 600dpi (or 1200dpi if the image contains very fine line weights) in black and white. Save your image in TIFF format, not as compressed BMP or JGP files. Show ECG waveforms and a cleanly reproduced background grid. Avoid reproduction of faxed or xeroxed ECGs and ensure that scanning does not introduce waveform artifact or jagged background grids. All submissions will be reviewed in the Editorial Office; if the quality is not sufficient the manuscript will be returned to the authors before the review process is initiated.

**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.

**Figure captions**

Ensure that each illustration has a caption. Supply captions separately, not attached to the figure. A caption should comprise a brief title (**not** on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used.

**Tables**

Please submit tables as editable text and not as images. Tables can be placed either next to the relevant text in the article, or on separate page(s) at the end. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

**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 highly encouraged.

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. If you use reference management software, please ensure that you remove all field codes before submitting the electronic manuscript. More information on how to remove field codes.

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-electrocardiology
When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

Reference formatting
There are no strict requirements on reference formatting at submission. References can be in any style or format as long as the style is consistent. Where applicable, author(s) name(s), journal title/book title, chapter title/article title, year of publication, volume number/book chapter and the article number or pagination must be present. Use of DOI is highly encouraged. The reference style used by the journal will be applied to the accepted article by Elsevier at the proof stage. Note that missing data will be highlighted at proof stage for the author to correct. If you do wish to format the references yourself they should be arranged according to the following examples:

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 journal publication with an article number:
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).

Please refrain from using the Microsoft Word end notes feature as references or automatic list numbering because these features are lost in conversion. (Please note that the use of the citation manager End Note is acceptable.)

**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 file in one of our recommended file formats with a preferred maximum size of 150 MB per file, 1 GB in total. 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.

Video clips should be submitted as MPG, MOV, AVI, or GIF files. To limit the loading time, clips should contain only one cycle and should be less than 1.5 megabytes. All illustrations should take less than a minute to load. Larger clips are permissible with 3-D images.

**Data visualization**
Include interactive data visualizations in your publication and let your readers interact and engage more closely with your research. Follow the instructions here to find out about available data visualization options and how to include them with your article.

**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.
Permissions
Must be obtained from the publisher and/or author for the use of any nonoriginal material. A copy of the written permission should be submitted with the manuscript. Authors are responsible for any permissions fees. Please contact the editorial office for a permission request form.

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.

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.

**PREPARATION OF ISCE MANUSCRIPTS**

**GUIDING PRINCIPLE**

To provide a means of producing peer-reviewed, fully indexed publications based on presentations at the annual ISCE meeting in a symposium format as part of the November/December issue of the *Journal of Electrocardiology (JECG)*, the official journal of ISCE.

**MANUSCRIPT SUBMISSION**

Manuscripts should be based on the author's ISCE presentation, and may describe original research or review a field of research. Manuscript must be submitted by **May 15**, via the Elsevier web site: Point your browser to [https://www.evise.com/profile/#/JECG/login](https://www.evise.com/profile/#/JECG/login) Register if you have not previously, and then login as "Author". Review the "Author Information" list for manuscript and artwork guidelines. Select "Submit New Manuscript" from the menu. Select "ISCE Manuscript" as "Article Type". Enter manuscript "Title" and "Authors" when prompted; be sure to check the "Corresponding Author" box for the "First Author". Select the "Session" of your presentation from the pull down menu. Enter the files for manuscript body, figures, tables, etc. as requested. Submit when finished. Elsevier will manage submission, peer review, and publication of the articles directly with each author, including reprint and copyright requests. Manuscripts accepted for publication will be published in the November/December issue of JECG.

**SPECIFIC ISCE MANUSCRIPT REQUIREMENTS:**

Electronic files must be in MS Word format; text should be typed and double-spaced. Provide a separate title page, containing full institutional affiliations, complete mailing address for presenting author (and corresponding author if different from presenter), and email address/telephone number of corresponding author. Manuscripts should be no more than 4 published journal pages in length. As a guide, this translates to about 10 pages of double spaced text material (exclusive of tables, figures, legends and references), or about 2000-2500 words. Overlength manuscripts will be abridged to the proper length or, with the consent of the Publications Chair, assessed publisher's page charges of $500 per excess page prior to publication. *References are limited to 20, and should be in standard journal format, with inclusive pagination for citations. Illustrations must be provided as high quality JPEG or TIFF digital images (PDF files are not accepted). Illustrations should be uploaded separately, not embedded within the text. Illustrations in the printed article are limited to 3. Color illustrations can be accommodated in the printed article when essential, but this will incur a separate publisher's charge per illustration to the author.* Additional illustrations (black & white or color) may be submitted without charge for online viewing. These supplementary illustrations should be uploaded to the Elsevier website with the manuscript, but in a separate file from the illustrations included in the printed article. Tables are limited to 2. Additional tables may be submitted without charge for online viewing. These supplementary tables should be uploaded to the Elsevier website in the same manner as supplementary illustrations (see #7). Video illustrations related to the manuscript may be made available online by providing a QR code or referencing a file link (e.g. YouTube) within the manuscript.

* Authors wishing to submit more than the 4 allowed journal pages or to include color illustrations in the printed article will be billed directly by Elsevier. Questions concerning this procedure should be directed to the ISCE Publications Chair.

*Please forward any questions to Claire Sommargren, RN, PhD, ISCE Publications Chair, at claire.sommargren@ucsf.edu.*

**AUTHOR INQUIRIES**

Visit the [Elsevier Support Center](https://www.evise.com/profile/#/JECG/login) 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.