DESCRIPTION

*Wilderness & Environmental Medicine*, the official journal of the Wilderness Medical Society, is the leading journal for physicians practicing medicine in austere environments. This quarterly journal features articles on all aspects of wilderness medicine, including high altitude and climbing, cold- and heat-related phenomena, natural environmental disasters, immersion and near-drowning, diving, and barotrauma, hazardous plants/animals/insects/marine animals, animal attacks, search and rescue, ethical and legal issues, aeromedical transport, survival physiology, medicine in remote environments, travel medicine, operational medicine, and wilderness trauma management. It presents original research and clinical reports from scientists and practitioners around the globe. *WEM* invites submissions from authors who want to take advantage of our established publication’s unique scope, wide readership, and international recognition in the field of wilderness medicine. Its readership is a diverse group of medical and outdoor professionals who choose *WEM* as their primary wilderness medical resource.

IMPACT FACTOR

2018: 1.450 © Clarivate Analytics Journal Citation Reports 2019

ABSTRACTING AND INDEXING

Current Contents
Environmental Periodicals Bibliography
Science Citation Index Expanded
Embase
Environmental Periodicals Bibliography
PubMed/Medline
Focus On: Sports Science and Medicine
Review of Medical and Veterinary Entomology

EDITORIAL BOARD

*Editor-in-Chief*
Neal W. Pollock, Quebec City, QC, Canada
**Associate Editors**
Aaron D. Campbell, Park City, UT, USA  
Robert W. Kenefick, Natick, MA, USA

**Editors Emeritus**
Paul S. Auerbach, Los Altos, CA, United States  
Oswald Oelz, Zurich, Switzerland  
William A. Robinson, Bozeman, MT, USA  
Robert L. Norris, Palo Alto, CA, United States  
Scott E. McIntosh, Salt Lake City, UT, USA

**Book Reviews**
Kenneth W. Kizer, Rocklin, CA, USA

**Clinical Images**
Ken Zafren, Anchorage, AK, United States

**Environmental Medicine**
Christopher Tedeschi, MD, New York, NY, USA

**Media Editor**
Darryl J. Macias, MD, Albuquerque, NM, USA

**Mountain Medicine**
Ken Zafren, Anchorage, AK, United States  
Darryl J. Macias, Albuquerque, NM, USA

**Practice Guidelines**
Michael Caudell, Augusta, GA, USA  
Tracy Cushing, Denver Health Medical Center  
Christopher Davis, University of Colorado Denver

**Tactical and Operational Medicine**
Brad L. Bennett, Bena, VA, USA

**Toxinology**
Timothy B. Erickson, Boston, MA, USA  
Scott Weinstein, Adelaide, South Australia and Bayside, NY, USA

**Wilderness Essays**
Judith Klein, San Francisco, CA, United States

**Wilderness Instructor**
Steve Donelan, Berkeley, CA, USA

**Editorial Board**
Howard D. Backer, Piedmont, CA, United States  
Buddha Basnyat, Lal Durbar, Kathmandu, Nepal  
Peter Hackett, Ridgway, CO, United States  
Edward J. (Mel) Otten, Cincinnati, Ohio, United States  
Matiram Pun, Maharajgunj, Kathmandu, Nepal  
Volker Schöffl, Bamberg, Germany

**Managing Editor**
Alicia Byrne, San Diego, CA, USA
GUIDE FOR AUTHORS

Neal W. Pollock, PhD, Editor-in-Chief

WEM SCOPE AND MANUSCRIPT CATEGORIES

Wilderness and Environmental Medicine (WEM) is the official journal of the Wilderness Medical Society. It is published quarterly and is devoted to original scientific and technical contributions related in whole or in part to wilderness or environmental medicine. Non-solicited manuscripts are considered for the following categories:

Original Research: Original studies of basic or clinical research in areas relevant to wilderness medicine. Preferred 3000-3500 words maximum (not including abstract, tables, figures, or references). Brief Reports: Preliminary findings or small sample-sized studies that generate new hypotheses for further research. Reports should generally follow the guidelines under Preparation of Manuscripts and be limited to approximately 1500-2000 words (not including abstract, tables, figures, and references), with no more than approximately 10 references. Case Reports: Brief descriptions of unique wilderness medicine problems or situations. Include narrative abstract, introduction, and discussion of implications. Preferred 2000-word maximum (not including abstract, tables, figures, or references). Review Articles: Extensive, well-referenced reviews of the literature on a narrow clinical topic. Preferred 3500-word maximum (not including abstract, tables, figures, or references); no more than 100 references. Concepts: Descriptions of clinical and non-clinical wilderness medical problems and solutions. Articles may focus on practical "how-to" management techniques and/or new approaches to the planning, management, or provision of wilderness medical services. Preferred 3500-word maximum (not including abstract, tables, figures, or references). Letters to the Editor: Observations, opinions, current topics and/or corrections on topics appearing in WEM, generally not to exceed 1000 words or 4 double-spaced pages, with a maximum of 10 references, one of which should be to the recent WEM article if applicable. Original scientific work is usually not considered appropriate for a Letter. Letters in Reply: Replies by authors should not exceed 1000 words of text and 11 references inclusive of the article at issue and the inciting letter. Editorials: Commentaries on major current issues or controversies with significant implications for wilderness medicine, generally not to exceed 1500 words (or 6 double-spaced pages) plus references if appropriate. Lessons from History: Classic papers in the medical literature relating to wilderness medicine. Such papers should have been first to describe a new problem, providing new information about old subjects, or describing new, effective methods of treatment or prevention. A complete reference citation of the original article and a commentary about the article should accompany the submission. Preferred 3000-word maximum (not including figures or references) but open to consideration through review.

Clinical Images: Pictures that teach something about wilderness medicine, as well as tell an engaging story. The focus will be on clinical images, each accompanied by text explaining the photograph and briefly reviewing the diagnosis and treatment of the condition it illustrates. If appropriate for the topic, an image and case report should be presented as a mystery, with the diagnosis and discussion appearing after a page break. 1000-1500 words (not including figures and references), with generally no more than 5 references. Wilderness Images: High-quality, high-resolution (300 dpi) digital images of wilderness subjects. Include photo title and description (2-3 sentences) and the appropriate photographer's credit line. Where relevant, include geographical coordinates of where the image was taken. Wilderness Essays: Personal essays or anecdotes relating to the wilderness and medicine. Preferred 3000-word maximum. Wilderness Instructor: Articles on wilderness medicine education at any level, focusing on course design and development, course analysis and evaluation, or teaching techniques. Preferred 2000-word maximum (not including figures or references). Book Reviews: Please contact the Editorial Office (abyrne@wms.org) for more information. WMS Practice Guidelines: Please contact the Editorial Office (abyrne@wms.org) for more information.

PERTINENT TOPICS

Pertinent topics include, but are not limited to, medical, physiological, pharmacological, and expeditionary considerations of: high altitude and climbing; hypothermia and cold-induced injuries; heat/cold-related disorders; weather-related phenomena and natural environmental disasters; toxinology; drowning and near-drowning; diving and barotrauma; hazardous plants, reptiles, insects, and marine animals; ethnobotany; animal attacks; rugged or austere environments; tropical disease and immunizations; search and rescue; and ethical and legal issues.
**MANUSCRIPT SUBMISSION**

Please read the submission guidelines carefully to prepare your manuscript. Submissions that are incomplete or that do not comply with the guidelines below will be returned to the author for completion before they will be entered into the editorial process.

To submit your manuscript electronically, go to [https://www.editorialmanager.com/wemj](https://www.editorialmanager.com/wemj) and sign in. As a new author with this journal, you will be able to create a log-in name and password for your use only.

Manuscripts are considered for publication in WEM with the understanding that neither the manuscript nor any part of its text, figures, or tables have been published in, accepted for publication in, or submitted at the same time to another journal. This does not preclude consideration of a complete report that follows publication of preliminary findings elsewhere, such as in the form of an abstract. When submitting a paper, the author should make a full statement to the Editor about all submissions and previous reports that might be regarded as prior or duplicate publication of the same or very similar work. Copies of such material should be included with the submitted paper to help the Editor decide how to deal with the matter.


**English Language:**

WEM accepts international manuscripts in English with American spelling. Authors whose first language is not English are encouraged to secure a high-level review of grammar to ensure proper English usage. Elsevier offers a professional English editing service which authors may use at their own expense.

Accepted manuscripts are subject to editorial changes, and the paper becomes the permanent property of WEM and may not be published elsewhere without permission. The Editor reserves the right to edit manuscripts to comply with WEM’s format, remove redundancies, and improve clarity without altering the meaning.

Please include the following files with submission: Cover letter to Editor Dr. Neal W. Pollock providing corresponding author’s information (name, address, telephone number, and email address) and stating the category of article the manuscript represents. Optional: suggest two or three potential peer reviewers whom you deem appropriate and knowledgeable to review your manuscript; include contact information and email addresses. The full text with the following items beginning on a new page: (1) title page (title, short title, author names/degrees/affiliations, corresponding author contact information, summary tallies [word count of abstract, word count of manuscript including references, reference count, figure count, table count]), (2) abstract, keywords, (3) main text, (4) acknowledgments (optional), author contributions (required), financial/material support statement (required), disclosure statement (required), (5) references, and (6) figure legends. Upload tables and figures as separate individual files. Each author on a submitted manuscript must complete and submit an ICMJE Form for Disclosure of Potential Conflicts of Interest. The form can be downloaded here: [http://www.icmje.org/downloads/coi_disclosure.pdf](http://www.icmje.org/downloads/coi_disclosure.pdf) The form must be saved to your computer, filled out, and then uploaded with your submission. The form is not viewable in a web browser or email "preview" window. If you receive an error message when clicking the link to access the form, save the file to your computer, and then open it with Adobe Acrobat. It is designed to be opened with Adobe Acrobat only. If appropriate, a copy of the permission to reproduce previously published materials from the publisher or owner of the material.

Authors are responsible for assuring they have appropriate ethical approval, consent to use photographs of identifiable individuals, permission for the use of personal communications, permission from the copyright holder for the use of any previously published tables or figures, and approval for acknowledgment from all individuals referred to in the acknowledgment section. Authors are responsible for disclosing at submission whether the results/data/figures any other portions of this work has been previously published in any form (eg, conference proceeding, magazine, newsletter, blog post, etc.

Note that copyright release forms are not required at submission, and will be sent automatically to corresponding authors along with first proofs for review.
Elsevier supports responsible sharing. Find out how you can share your research published in Elsevier journals.

**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').

**Open access**
Please visit our Open Access page for more information.

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

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.

Format manuscript in a Word document in 12-point Times New Roman font, double-spaced, with 1-inch margins on an 8.5 x 11-inch page, with a single space after periods, and with continuous line numbering (that is, numbering that does not restart at 1 on each page) and pages numbered in upper right with Title page as page 1. Reminder: submissions must be formatted correctly to be entered into the review process.

Do not embed author names, dates, fonts, links, footnotes in a hidden field, field codes, bookmarks, comments, hypertext links, passwords, objects, worksheets, databases, artwork, or slides (such as PowerPoint) in the text.

**Authorship:**
All persons designated as authors should qualify for authorship. Include first names of the author, not initials. The order of authorship should be a joint decision of the co-authors. Each author should have participated sufficiently in the work to take public responsibility for the content. Authorship credit should be based only on substantial contributions: (1) to conception and design or to analysis and interpretation of data; (2) to drafting the article or revising it critically for important intellectual content; and (3) to final approval of the version to be published. Neither general supervision of the research group nor financial support are sufficient for authorship credit.
Scientific submissions should contain the sections described below. Each section should begin on a new page and should be in the sequence shown below.

**TITLE PAGE**
The title page (page 1) should contain (1) a concise and informative title; (2) an identified short running head (short title) of no more than 40 characters, including spaces; (3) the first name (spelled out), middle initial, and last name of each author with highest academic degree(s) and institutional affiliation (do not include professional designations such as FACMT, FAWM, etc.; these are not published in the journal); (4) contact information for the corresponding author; (5) summary tallies (word count of abstract, word count of manuscript including references, reference count, figure count, table count); and (6) if applicable, an indication that the work described in the manuscript was formally presented at a scientific meeting with inclusion of the name, date, and location of the meeting.

**ABSTRACT**
All manuscripts that are reports of original data from scientific investigations (original research and brief report categories) must be submitted with a structured abstract of no more than 250 words with the following headings: *Introduction, Methods* (include information on design, setting, participants, interventions, and main outcomes measured), *Results*, and *Conclusions*.

Case reports, review articles, wilderness instructor, and concept articles should include a narrative abstract of 250 words or fewer and outline the purpose of the article, major findings, and recommendations. Abstracts for review articles should also specify how the literature was searched and how cited articles were chosen. *Keywords.* Immediately following the abstract (not on a separate page), include 2-6 keywords or short phrases that will assist indexers in cross-indexing your article and that may be published with the abstract. Use terms from the medical subject headings (MeSH) list of Index Medicus. **Do not include words that are in the title of the article; these will already be captured.**

**TEXT**

**Introduction**
Clearly state the purpose of the article. Summarize the rationale for the study, report, or observation. Give only strictly pertinent references, and do not review the subject extensively. Do not include data or conclusions from the work being reported.

**Methods**
Describe the selection of the observational or experimental subjects, including controls. Identify the methods, apparatus (manufacturer’s name and city, state/province, and country in parentheses), and procedures in sufficient detail to allow other workers to reproduce the results. Give references to established methods, including the statistical methods; provide references and brief descriptions of methods that have been published but are not well known; and describe new or substantially modified methods. Precisely identify all drugs and chemicals used, including generic names and route(s) of administration. Proprietary names may be included, but should be capitalized, enclosed in parentheses, and should follow the generic names.

**All studies involving human or animal research must indicate approval by an institution’s human or animal subject review board (IRB).** A statement of ethics approval or determination of exemption that includes the name of the institution(s) providing the oversight must be included in the methods section. Authors must confirm that appropriate consent was obtained from all human subjects or that this requirement was waived by the review committee.

**Statistics.** All statistical techniques must be clearly identified and referenced where appropriate. Describe statistical methods with enough detail to enable a reader with access to the original data to verify the reported results. When possible, quantify findings and present them with appropriate indicators of measurement error or uncertainty. Discuss eligibility of experimental subjects, randomization, methods of blinding, treatment complications, numbers of observations, and losses to observations, and a threshold for P values to indicate statistically significant differences. Put general descriptions of statistical methods in the methods section. When data are summarized in the results section, specify the statistical methods used to analyze them. Restrict tables and figures to those needed to explain the argument of the paper and to assess its support. Use graphs as an alternative to tables with many entries: do not duplicate data in graphs and tables.
Clinical Trials. A clinical trial is defined as "any research study that prospectively assigns human participants or groups of humans to one or more health-related interventions to evaluate the effects on health outcomes." As per the Declaration of Helsinki: Ethical Principles for Medical Research Involving Human Subjects and the policy of the International Committee of Medical Journal Editors, any clinical trial under consideration for publication must be registered with ClinicalTrials.gov (United States) or a WHO approved http://www.who.int/ictrp/network/primary/en/index.html. The trial registry number should be included in the Methods section of the paper. Trials that have not been registered should provide an explanation, with the understanding that not registering a trial may be sufficient grounds for rejection.

For randomized controlled trials, we strongly recommend authors read and follow the guidelines at www.consort-statement.org.

Results
Present the results in a logical sequence, using tables and illustrations where possible. Include numbers of observations and statistical significance of the findings when appropriate. Do not repeat data found in the tables or illustrations in the text. Report numbers only to the appropriate number of significant digits (ie, representative of the precision of the measurement or measuring tool) and in Systme International units. If non-SI units are to be presented, they should be placed parenthetically after the SI units.

Discussion
Emphasize the new and important aspects of both the study and the conclusions that follow from them. Do not repeat in detail data given in the introduction or the results sections. Include in the Discussion the implications of the findings and their limitations, including implications for future research. Relate the observations to other relevant studies. Link the conclusions with the goals of the study, but avoid unqualified statements and conclusions not completely supported by the data. Clearly label new hypotheses. Appropriate recommendations may be included.

Limitations. The discussion should include a distinct section that describes any weaknesses of the research, specifically methodological factors that may affect the interpretation or validity of the results and potential sources of bias.

Conclusions. The conclusions end the discussion. The conclusions of the manuscript must be in close agreement with the conclusions found in the abstract.

Acknowledgments
(Not required for Letters to the Editor, Lessons from History, Wilderness Images, Clinical Images, or Book Reviews) One or more statements should specify (1) contributions that need acknowledging but do not justify authorship, such as noteworthy contribution of assisting colleagues; and (2) technical assistance. Acknowledgments of financial and material support are to be placed in the Financial/Material Support Statement described below.

Author Contributions
(Not required for Letters to the Editor, Lessons from History, Wilderness Images, Clinical Images, or Book Reviews) Listing each author's contribution to the work is required for submission. The contributing authors should be identified by their initials in parentheses after each category. The following categories should be used as appropriate: Study concept and design; obtaining funding; acquisition of the data; analysis of the data; drafting of the manuscript; critical revision of the manuscript; and approval of final manuscript.

Financial/Material Support Statement (Not required for Letters to the Editor, Lessons from History, Wilderness Images, Clinical Images, or Book Reviews) Authors are required to disclose any financial and/or material support in the form of grants, equipment, and/or drugs; and to specify the nature of the support. If there is none, it should be stated as Financial/Material Support: None.

Disclosure Statement
(Not required for Letters to the Editor, Lessons from History, Wilderness Images, Clinical Images, or Book Reviews) Authors are required to disclose any potential conflicts of interest, both commercial and professional. These include patent-licensing agreements, stock ownership or other equity interest, consultancies, institutional affiliations, and corporate sponsorship. If there are none, it should be stated as Disclosures: None.
REFERENCES
It is important to note that manuscript management systems rarely generate reference lists perfectly. Authors should not rely on these as a final check. It is the authors’ responsibility to ensure that the submitted format is in full compliance with submission guidelines. If a manuscript management system is used to generate the reference list, the codes must be stripped out prior to submission so that the reference list is configured as plain text. Authors can preserve a copy with the codes embedded to facilitate revision, but only plain text versions should be submitted.

Only formally published material is unquestionably suitable for inclusion in the reference list. Web-based material that is expected to change dynamically is not appropriate to be included in the reference list. Content that does not have version dates is more likely problematic. Content not appropriate for inclusion in the reference list may be appropriate for text citation as personal communications. See specific guidelines below to determine where and how to cite web material and other nontraditional sources.

Number references consecutively in the order in which they are first mentioned in the text. Identify references in the text, tables, and legends by Arabic numerals. References cited only in tables or in legends should be numbered in accordance with a sequence established by the first identification in the text of the particular table or illustration. References to written communications may be inserted (in parentheses) into the text. The references must be verified by the author(s) against the original documents. When in doubt, refer to the American Medical Association Manual of Style, 10th edition. Examples of correct forms of reference are:

* Standard journal article
List all authors when 6 or fewer; when 7 or more, list the first 6 and add "et al." Be sure to include the middle initial of authors, if available. List author names by last name followed by first and middle initial (no periods). Article titles should be presented in sentence capitalization style. The titles of journals should be abbreviated according to the style used in PubMed. Include year of publication, volume, issue number, and inclusive page numbers, with closing page numbers abbreviated. Do not include month of publication.


Chapter in a book

Entire book

Conference proceedings

In press

Epublished before print

URLs
Web-based references are not allowed except under extraordinary circumstances. Internet pages and links change frequently, and are often obsolete by the time the manuscript goes to press. If the author wishes to include a web-based reference, they must describe in the cover letter their search for an appropriate published reference and justify the reasons that a web-based reference must be included. The following reference format should be used:


Personal Communications
Do not include "personal communications" in reference list. The following forms may be used in the text:
"In a conversation with PT Roberton, MD (July 2016) ..."
"According to a letter from PR Roberton, MD, in July 2016..."
"Similar finds have been noted by PT Roberton, MD, (written communication, July 2016)..." **NOTE:** Author must submit written permission from the person whose "personal communication" is cited.

Dataset

NOTES TO AVOID COMMON SUBMISSION ERRORS Format manuscript in a Word document in 12-point Times New Roman font, double-spaced, with 1-inch margins on an 8.5 x 11-inch page, with a single space after periods, and with continuous line numbering (that is, numbering that does not restart at 1 on each page) and pages numbered in upper right with the title page as page 1. If a submission is not formatted correctly, it will be returned. Recommended methods text example "Data are presented as mean±SD (with range) as appropriate." All studies involving human or animal research must include a statement of ethics approval that includes name of institution(s) granting approval. Report numbers only to the appropriate number of significant digits (ie, representative of the precision of the measurement or measuring tool) and in Systeme International units. The format standard is US English. Common spelling/layout errors: "keywords," "acknowledgments," "mm Hg," "mL." "Sex" (a biological construct) is appropriate to use if grouping is limited to male and female. "Gender" (a sociological construct) is only appropriate if additional groups are included. The term used must be appropriate and consistent throughout the manuscript. Reference formatting must follow journal standard. Author contributions, disclosures, and financial/material support statements must be included in the manuscript text.

**FIGURE CAPTIONS/ LEGENDS**
Ensure that each illustration has a caption. Supply captions as a separate section of the text; do not attach to the figures. 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 AND FIGURES**
Tables and Figures should not be included in the manuscript document but uploaded as separate individual documents as directed in the submission system. **TABLES** Cite each table in the text in consecutive order as Table 1, Table 2, etc. (Note: number even if only one.) Avoid shading within tables. Minimize use of internal lines. Format each table double-spaced in a separate Word document file. Do not submit tables as image files. Number each table consecutively in the order of its first citation in the text, and supply a brief title. Provide an appropriate descriptive title above each table that follows the table number. Give each column a short heading. Place explanatory matter in footnotes, not in the heading. Explain in footnotes all non-standard abbreviations. Identify statistical measures of variation, such as standard deviation, with the mean. Omit internal horizontal and vertical rules. If data are used from another published or unpublished source, obtain permission and acknowledge fully.
FIGURES
Prepare figures to optimize the accurate depiction of data. To ensure the maximized size in print: Embed legends within the white space of figures whenever possible. Do not include external borders (ie, those outside the axes labels). Use unique lines (eg, solid, short dash, long dash) as well as unique markers to ensure distinction even if printed in black and white. Avoid unnecessary use of gridlines. Do not make bold axes labels, scales, or legends. Avoid unnecessary shading within figures. Avoid unnecessary decimal places from axes scale numbers.

FIGURE EXAMPLES
Example 1
Example 2
Example 3
Cite each figure in the text in consecutive order as Figure 1, Figure 2, etc. Include a separate figure legend in the manuscript text on a separate page immediately following the references. Make sure you use uniform lettering and sizing of your original artwork. Save text in illustrations as "graphics" or enclose the font. Only use Arial font in your illustrations. Number the illustrations according to their sequence in the text. Use a logical naming convention for your artwork files. Produce images near to the desired size of the printed version. Regardless of the application used, 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: Vector drawings. Embed the font or save the text as "graphics." TIFF: color or grayscale photographs (halftones): **always use a minimum of 300 dpi.** TIFF: Bitmapped line drawings: use a minimum of 1000 dpi. TIFF: Combinations bitmapped line/half-tone (color or grayscale): a minimum of 500 dpi is required. TIFF: Combinations bitmapped line/half-tone (color or grayscale): a minimum of 500 dpi is required.

Please do not: Supply embedded graphics in your word processor (spreadsheet, presentation) document. Supply files that are optimized for screen use (like GIF, BMP, PICT, WPG); the resolution is too low. Supply files that are too low in resolution. Submit graphics that are disproportionately large for the content.

Guidelines for Electronic Figure Preparation/Please Read Carefully
The journal uses a streamlined production process that takes authors' files straight to typesetting from the submission system. The specifications listed here will ensure your submitted artwork will transition smoothly to production. Following these instructions also ensures that you will create the smallest possible file size, which will speed the file upload step of the submission process.

Authors should submit their figures according to the specifications listed below. Figures should be submitted at one of two widths to match the column widths used in the journal and submitted at a high resolution. Please carefully review the specific instructions below before submitting your figures.

A detailed guide on electronic artwork is available on our website: [https://www.elsevier.com/artworkinstructions](https://www.elsevier.com/artworkinstructions). You are urged to visit this site; some excerpts from the detailed information are given here.

**Color Artwork**

Please make sure that artwork files are in an acceptable format (TIFF, EPS, 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 on the Web (eg, the journal website, ScienceDirect, and other sites) regardless of whether or not these illustrations are reproduced in color in the printed version. Please indicate your preference for color in print or on the Web only.

**Important Notes** Figures submitted at dimensions and resolutions greater than those specified above make digital file sizes larger and, therefore, can take longer to upload and access. Specifically, attempting to load figure files that exceed 14 MB can cause a delay in the submission process. Be sure that when your figures are reduced that the text is still readable and the images meet our resolution requirements. Images created for or captured from a computer screen or the Web are not optimal for printing purposes because they are down-sampled to ~72 dpi. Please submit only high-resolution images. Do not submit files that have been "up-sampled" from low-resolution originals. TIFF images, even when saved at the proper size and resolution, can be quite large and may take a long time to transfer over the Internet. **Color:** There is no charge for black and white figures and tables. Color
may be considered for certain figures at the discretion of the Editor. Unless otherwise stated, all color figures will appear in black and white in print and in color online. In graphs, pattern fills are often a better choice than color fills. When using color in graphs and line art, use bold, dark colors that differ significantly from one another. Light colors do not reproduce well on a screen or in print. Colors appear/reproduce differently depending on the type of monitor and printer being used. Color on monitors is displayed as RGB, whereas the journal is published using CMYK. The quality of your figures will only be as good as the lowest-resolution element placed in them. In other words, if you place a 72 dpi line graph in a 600 dpi TIFF, the result is still a 72 dpi image, which is unacceptable for print purposes. Be sure your originals are submitted at the required resolution.

**Warning!** Some programs may down-sample your images to low resolution. Do not use the "optimize for web" wizard in PowerPoint for any figures you intend to use in print. JPEG uses a glossy data compression technique, and every time you re-save a JPEG, resolution is lost. **Please submit first generation JPEGs only.**

**NOTES TO AVOID COMMON SUBMISSION ERRORS**

Format manuscript in a Word document in 12-point Times New Roman font, double-spaced, with 1-inch margins on an 8.5 × 11-inch page, with a single space after periods, and with continuous line numbering (that is, numbering that does not restart at 1 on each page) and pages numbered in upper right with Title page as page 1. If a submission is not formatted correctly, it will be returned. Recommended methods text example "Data are presented as mean±SD (with range) as appropriate." All studies involving human or animal research must include a statement of ethics approval that includes name of institution(s) granting approval. Report numbers only to the appropriate number of significant digits (i.e., representative of the precision of the measurement or measuring tool) and in Système International units. The format standard is US English. Common spelling/layout errors: "keywords," "acknowledgments," "mm Hg," "mL." "Sex" (a biological construct) is appropriate to use if grouping is limited to male and female. "Gender" (a sociological construct) is only appropriate if additional groups are included. The term used must be appropriate and consistent throughout the manuscript. Reference formatting must follow journal standard.

**PEER REVIEW**

The manuscript will be referred to acknowledged expert peer reviewers and, if appropriate, an Associate or Section Editor, prior to the Editor's decision regarding publication. Reviewers are advised that they should recuse themselves from review of the submission if a conflict of interest exists. If necessary, the manuscript will be returned to the author(s) for revision(s) prior to a final decision. All attempts are made to obtain prompt reviews and a decision regarding need for revision, acceptance, or rejection.

**REVISIONS**

After receiving a decision from the Editor-in-Chief and revising the manuscript as instructed, the revision should be submitted with a point-by-point response letter explaining revisions based on editors' and reviewers' comments. The explanations can be brief, often simply an acknowledgment that appropriate changes were made in the manuscript. This letter must be presented in text form, with the original comment followed by the response. Comment bubbles embedded in the revision are not adequate as a response to reviewers. All material changes should be made in the manuscript so future readers can benefit. Submit two versions of the revised manuscript: one version with changes tracked that should appear first, and one "clean" version without changes tracked. Upload revisions to [https://www.editorialmanager.com/wemj](https://www.editorialmanager.com/wemj).

**PROOFS**

Once your article is accepted for publication, galley proofs in PDF format will be sent via e-mail to the corresponding author for correction prior to publication. The difficulty and expense involved in making amendments at the proof stage make it essential for authors to carefully prepare the original manuscript. Please be aware that alterations to the original text at the proof stage are strongly discouraged and may result in charges to the author. To enable rapid publication, the authors are encouraged to return all correspondence within 48 hours.

**CONFLICT OF INTEREST**

Each author on a submitted manuscript must complete and submit an ICMJE Form for Disclosure of Potential Conflicts of Interest. The form can be downloaded here: [http://www.icmje.org/conflicts-of-interest/](http://www.icmje.org/conflicts-of-interest/)
The form must be saved to your computer, filled out, and then uploaded with your submission. The form is not viewable in a web browser or email "preview" window. If you receive an error message when clicking the link to access the form, save the file to your computer, and then open it with Adobe Acrobat. It is designed to be opened with Adobe Acrobat only.

Authors must also disclose in their manuscript, ahead of the References, any commercial and professional relationships that might pose a conflict of interest. Wilderness and Environmental Medicine journal guidelines require that the Editor-in-Chief, Associate Editors, Editorial Board, and the Section Editors be excluded from the editorial process if listed as an author on a submitted manuscript.

**DATA**

Authors must keep original data and statistical analyses for 5 years after publication to allow for repetition or examination by others if necessary. Regional, institutional, or governmental guidelines may require authors to keep information for a longer period.

**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.

**COPYRIGHT**

Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (for more information on this and copyright, see https://www.elsevier.com/copyright). 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 (please consult https://www.elsevier.com/permissions). 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: https://www.elsevier.com/permissions.

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

**AUTHOR RIGHTS**

As an author you (or your employer or institution) have certain rights to reuse your work. For more information see https://www.elsevier.com/copyright.

**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.
AUTHOR INQUIRIES
For inquiries relating to submitting a manuscript (including electronic submission), please visit https://www.editorialmanager.com/wemj. For detailed instructions on the preparation of electronic artwork, please visit https://www.elsevier.com/artworkinstructions. Contact details for questions arising after acceptance of an article, especially those relating to proofs, will be provided by the publisher. You can track accepted articles at https://www.elsevier.com/trackarticle. You can also check our Author FAQs at https://www.elsevier.com/authorFAQ and/or visit the Elsevier Support Center.

Questions regarding your submission? Please contact: abyrne@wms.org
Alicia Byrne, Managing Editor
Wilderness and Environmental Medicine

© Copyright 2018 Elsevier | https://www.elsevier.com