

JACC: Basic to Translational Science Instructions for Authors

JACC: Basic to Translational Science, an open access journal, serves a forum for advancing the field Translational Cardiovascular Medicine, and as a platform for accelerating the translation of novel scientific discoveries into new therapies that improve clinical outcomes for patients affected with or at risk for Cardiovascular Disease. Thematic areas of interest include pre-clinical research; clinical trials; personalized medicine; novel drugs, devices, and biologics; proteomics, genomics and metabolomics; and early phase clinical trial methodology. We request that all manuscripts be submitted online at <https://www.jaccsubmit-basicts.org>.

ARTICLE TYPES

ORIGINAL RESEARCH PAPERS. *JACC: Basic to Translational Science* publishes original research articles that involve novel methodology (novel translational methods), preclinical studies (i.e., not involving human samples), and clinical studies that involve analysis of human samples or studies performed in human subjects. The guidelines for submission are identical for each category. The Journal also publishes original research articles in the leading edge translational research category. These articles are discrete, highly significant, innovative, or novel findings reported in a shorter format of 3,500 words or fewer in length. Editors will review for interest within seven (7) days of submission. These may be invited or submitted by the authors.

JACC: Basic to Translational Science is not restricted to page length, however the Editors prefer that manuscripts not exceed 8,000 words (including references and figure legends). Note that if you are asked to revise your paper an alternate word limit may be specified by the Editors. Illustrations and tables should be limited to those necessary to highlight key data. Please provide gender-specific data, when appropriate, in describing outcomes of epidemiologic analyses or clinical trials; or specifically state that no gender-based differences were present.

- Authors: No more than two corresponding authors; no more than two joint authors in any position
- Abstract: Structured with the following headings and no more than 250 words: Background, Objectives, Methods, Results and Conclusions. The abstract should present essential data in 5 paragraphs. Use complete sentences. All data in the abstract also must appear in the manuscript texts or tables.
- Condensed Abstract: Unstructured and no more than 150 words
- Results: Please report all P-values to three digits to the right of the decimal point for P-values <0.10, and 2 digits to the right of the decimal point for P-values >0.10 within the manuscript text.
- Study limitations (required): Please include the limitations of your investigation at the end of the discussion section of your manuscript.
- Figure/Table Limit: None
- Visual Abstract: Required (See Manuscript Content section for more information about Visual Abstracts)
- Highlights: Required (See Manuscript Content section for more information about Highlights)
- Clinical Perspectives: Required (See Manuscript Content section for more information about Clinical Perspectives)
- Ethical Approval (required): Please denote that your study received proper ethical oversight in both your cover letter and Methods section. For manuscripts reporting data on human subjects, note institutional review board/ethics committee approval (or formal review and exemption), including the specific name of the board or

committee. For studies involving animal experiments, note that the study complied with all institutional and national requirements for the care and use of laboratory animals and, if applicable, received approval from an animal care and use committee approval. State the animal-handling protocol in your Methods.

STATE-OF-THE-ART REVIEWS. The Editors will consider both invited and volunteered review articles. Manuscripts should be no more than 7,500 words (including text, references and, figure legends). Authors should detail in their cover letters how their submission differs from existing reviews on the subject.

- Authors: No more than two corresponding authors; no more than two joint authors in any position
- Abstract: Unstructured and no more than 150 words
- Figure Limit: None
- Table Limit: None
- Central Illustration: Required (See Manuscript Content section for more information about Central Illustrations)
- Highlights: Required (See Manuscript Content section for more information about Highlights)
- Clinical Perspectives: Not applicable

Please be sure you have obtained or will obtain permission for previously published tables, figures, or any material for which you cannot grant copyright. Please contact us with suggestions before you start to prepare such review articles.

TRANSLATIONAL PERSPECTIVES. Although usually invited, succinct opinion pieces relevant to a specific aspect of translational medicine will also be considered for *JACC: Basic to Translational Science*. They should not exceed 1,500 words and should have no more than a total of 2 figures and tables, and no more than 5 references.

RESEARCH LETTERS. This section is intended to highlight recent development or other important pieces of information. You may submit original reports of preliminary data and findings or studies with small numbers demonstrating the need for further investigation as Research Letters, which are published as such in the Letters to the Editor section. These can include scientific studies with brief content and results such as phase II trial results, investigator-initiated studies funded by federal or society research grants (NIH K, R grant recipients), and/or emerging investigators. Research Letters should be ≤1,000 words (including text, references, and figure legend).

- Abstract: Not applicable
- Authors: No more than 10; no joint authorship permitted
- References: No more than 5
- Figures/Tables: No more than 1 simple figure (in no more than 2 parts) or 1 simple table
- Central Illustration: Not applicable
- Clinical Perspectives: Not applicable
- Supplemental Material: Not permitted
- Ethical Approval (required): Please denote that your study received the proper ethical oversight in both your cover letter and the body of the article. For manuscripts reporting data on human subjects, note approval from institutional review board/ethics committee (or formal review and exemption), including the specific name of the board or committee. For studies involving animal experiments, note that the study complied with all institutional and national requirements

for the care and use of laboratory animals and, if applicable, received animal care and use committee approval. State the animal-handling protocol in the body of your article.

LETTERS TO THE EDITOR AND REPLIES. We welcome readers to submit formal comments on the content of articles published in *JACC: Basic to Translational Science*. Such comments should provide constructive scientific remarks. Readers may submit these comments as a Letter to the Editor within 3 months of the article's online publication date. Letters should be ≤500 words (including text and references). Replies will be solicited by the Editors and study authors will have 10 days to respond. The author's reply should be ≤500 words (including text and references) unless the author is responding to multiple letters in which case the reply should be ≤800 words (including text and references). Titles must be ≤15 words (not including the labels "To the Editor" and "Reply"). Replies to multiple letters need a title that is generic and encompasses all of the letters to which they are responding. Both letters and replies are limited to 5 authors, 5 references, and 1 table OR 1 figure in 1 or 2 panels. Please include the cited article as the first reference.

EDITORIAL COMMENTS. All Editorial Comments published in *JACC: Basic to Translational Science* are invited by the Editors. If you are invited to write an editorial, specific requirements will be sent to you. Papers should be ≤1,500 words (including text, references, and figure legends) and must include the cited article as a reference. In some cases, a table or figure may be helpful and appropriate. Please do not submit unsolicited editorials.

CLINICAL TRIAL REGISTRATION

1. Consistent with the recommendations provided by the International Committee of Medical Journal Editors for Clinical Trial Registration (ICMJE) (https://www.icmje.org/news-and-editorials/clincial_trial_reg_jun2007.html), *JACC: Basic to Translational Science* will require, as a pre-condition of consideration for publication, registration in a public trials registry. Trials must register at or before the onset of patient enrollment. This policy applies to any clinical trial starting enrollment after July 1, 2005.
2. The ICMJE defines a clinical trial (<https://www.icmje.org/about-icmje/faqs/clinical-trials-registration>) as "any research project that prospectively assigns human subjects to intervention or comparison groups to study the cause-and-effect relationship between a medical intervention and a health outcome." Phase 0 clinical trials (e.g., exploratory clinical trials not designed to evaluate therapeutic or diagnostic intent) and phase 1 clinical trials do not meet the FDA definition of an Applicable Clinical Trial (21 CFR312.21), and therefore, are generally, not required to be registered.
3. A list of the ICMJE accepted registries can be found at the following URL: <https://www.icmje.org/about-icmje/faqs/clinical-trials-registration>.

PREPRINT DEPOSITION

JACC: Basic to Translational Science is now offering authors the opportunity to post their manuscripts on a SSRN preprint server (<https://www.ssrn.com/link/JACC-Basic-Translational-Science-FL.html>). Preprints are research papers that are at the early submission stage that have not gone through peer review nor editorial oversight and guidance, and are primarily intended for research use. All papers on the "JACC: Basic to Translational Science First Look" server will be free to upload and download.

Authors may post a preprint of their manuscript during the journal submission process and in advance of manuscript decision. This service is not a requirement to submit to the Journal and has no bearing on the peer review process. Authors who wish to opt in and have their paper

considered for posting should answer "Yes" in the Preprint Deposition section of the submission site. Please note that agreeing to post a manuscript to SSRN does not guarantee it will be posted. Only manuscripts sent out for peer review (at the editors' discretion) will be posted to SSRN. Papers that are accepted for publication will remain on the "JACC: Basic to Translational Science First Look" server indefinitely, whereas papers that are ultimately rejected will be archived on a different site on the SSRN preprint server.

MANUSCRIPT ORGANIZATION

1. Cover Letter (not required for Editorial Comments)
2. Rebuttal Letter (revision or appeal only)
3. Manuscript File
 - a) Title Page with title (≤15 words), author names, author affiliations, author/funding disclosures, running title (≤7 words), corresponding author contact information (including mailing address, phone, fax, and email address), and word count (beginning with text and ending with the last figure legend; not including tables)
 - b) Abstract (Structured Abstract of ≤250 words for Original Research Papers, Unstructured Abstract of ≤150 words); Clinical Trial Registration (if applicable); Key Words, 3-6; Abbreviations List, ≤10 Abbreviations
 - c) Text
 - d) Clinical Perspectives (core clinical competencies and translational outlook implications on a separate page after the conclusions, and only for Original Research Papers)
 - e) Acknowledgments (if appropriate)
 - f) References
 - g) Figure Titles and Legends
 - h) Tables (each on a separate page)
4. Figures/Visual Abstract (Original Research Papers only)/Central Illustration (State-of-the-Art Reviews only)
5. Supplemental Material (uploaded as one single Microsoft Word document containing all supplemental figures and tables)

FORMATTING

Please use Times New Roman 12-point font with 1-inch margins. The Title Page, Abstract(s), Key Words, and Abbreviations should be single-spaced. The remaining text should be double-spaced. Page numbering should begin with the Title Page.

MANUSCRIPT CONTENT

COVER LETTER. A short paragraph telling the editors why the authors think their paper merits publication may be included in the cover letter. Potential reviewers may be suggested in the cover letter, as well as reviewers to avoid. However, final reviewer assignment is determined by the editors. The corresponding author should be specified in the cover letter and on the title page. All editorial communications and submission queries will be sent to this author. Cover letters must include the following 4 ICJME Statements:

1. The paper is not under consideration elsewhere;
2. None of the paper's contents have been previously published;
3. All authors have read and approved the manuscript;
4. The full disclosure of any potential conflict of interest (see "Relationship with Industry Policy") or that no such relationship exists.

Exceptions must be explained. If there is no conflict of interest, this should also be stated in the cover letter.

5. **Ethical Approval (required):** Please denote that your study received the proper ethical oversight in both your cover letter and the body of the article. For manuscripts reporting data on human subjects, note institutional review board/ethics committee approval (or formal review and exemption), including the specific name of the board or committee. For studies involving animal experiments, note that the study complied with all institutional and national requirements for the care and use of laboratory animals and, if applicable, received approval from animal care and use committee. State the animal-handling protocol in the body of your research correspondence or the Methods section of your manuscript.

TITLE PAGE. Include the full title (no more than 15 words), authors' names (full given name, middle initial, and surname), degree, total word count, and a running title of #7 words. List the departments and institutions with which the authors are affiliated, and indicate the specific affiliations if the work is generated from more than one institution (use superscript letters ^a, ^b, ^c, ^d, and so on). Provide information on clinical trials, grants, contracts, and other forms of financial support, and list the cities and states of all foundations, funds and institutions involved in the work. This must include the full disclosure of any relationship with industry (see "Relationship with Industry Policy"). If there are no relationships with industry, this should be stated. Corresponding author contact information: Under the heading, "Address for correspondence," provide the full name and complete postal address of the author to whom communications should be sent. Also provide telephone and fax numbers, an email address, and a Twitter handle, if available. Please also provide a short tweet summarizing your paper to your title page. The tweet should be approximately 280 characters, including spaces. Please include up to three hashtags with your tweet (Example: #ACCIntl, #ACCFIT, #WomenInCardiology, #CVD, #Heart-Failure). You may also review our [hashtag guide](#). Please note that the editors will review your content, and it may not ultimately be published on the @JACCJournals Twitter account. The corresponding author will be the sole contact for all submission queries.

Word Count: Word count should include text, references, and figure legends.

ABSTRACT. Provide a structured abstract of no more than 250 words for Original Research Papers, presenting essential data in 5 paragraphs introduced by separate headings in the following order: Background, Objectives, Methods, Results, Conclusions. All data in the abstract also must appear in the manuscript text or tables. For general information on preparing structured abstracts, see "Haynes RB, Mulrow CD, Huth EJ, Altman DG, Gardner MJ. More informative abstracts revisited. *Ann Intern Med.* 1990;113:69-76." An unstructured 150-word abstract should be provided for State-of-the-Art Reviews.

KEY WORDS. Immediately after the abstract, provide a maximum of 6 key words, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). These key words will be used for indexing purposes, and therefore should be different than the terms/words already used in the title of the paper.

ABBREVIATIONS. The abbreviations of common terms (e.g., ECG, PTCA, CABG) or acronyms (GUSTO, SOLVD, TIMI) may be used in the manuscript. On a separate page following the Abstract, list the selected abbreviations and their definitions (e.g., TEE = transesophageal echocardiography). The Editors may determine which lesser-known terms should not be abbreviated. Please consult "Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals (ICMJE

Recommendations)," available from www.icmje.org for appropriate use of units of measure.

TEXT. All text from the Introduction to the end of the manuscript should be double-spaced. Page numbering should start with the Title Page. The text for Original Research Papers should be structured as Introduction, Methods, Results, Discussion, and Conclusions. Use headings and subheadings in the Methods, Results, and particularly, Discussion sections. Every reference, figure, and table should be cited in the text in numerical order according to order of mention. All supplemental figures, tables, and appendices should also be cited in the text.

STATISTICS. All publishable manuscripts will be reviewed for appropriateness and accuracy of statistical methods and statistical interpretation of results. We subscribe to the statistics section of the "Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals (ICMJE Recommendations)," available at www.icmje.org. In the Methods section, please provide a subsection detailing the statistical methods, including specific methods used to summarize the data, methods used for hypothesis testing (if appropriate), and the level of significance used for hypothesis testing. When using more sophisticated statistical methods (beyond t-tests, chi-square, or simple linear regression), specify the statistical package, version number, and nondefault options used. For more information on statistical review, see "Glantz SA. It is all in the numbers. *J Am Coll Cardiol.* 1993;21:835-7."

CLINICAL PERSPECTIVES. These are for Original Research Papers only. The authors should delineate clinical implications and translational outlook recommendations for their manuscripts. These should be listed in the manuscript after the Text and before the Acknowledgments and References. The competencies describe the implications of the study for current practice. The translational outlook identifies the potential barriers to clinical translation, emphasizing directions for additional research.

Clinical Competencies. Competency-based learning in cardiovascular medicine addresses the 6 domains promulgated by the Accreditation Council on Graduate Medical Education (ACGME) and endorsed by the American Board of Internal Medicine (Medical Knowledge, Patient Care and Procedural Skills, Interpersonal and Communication Skills, Systems-Based Practice, Practice-Based Learning, and Professionalism) (www.acgme.org/acgmeweb). The ACCF has adopted this format for its competency and training statements, career milestones, lifelong learning, and educational programs. The ACCF also has developed tools to assist physicians in assessing, enhancing, and documenting these competencies (www.acc.org/education-and-meetings/products-and-resources/competencies).

Authors are asked to consider the clinical implications of their report and identify applications in one or more of these competency domains that could be used by clinician readers to enhance their competency as professional caregivers. This applies not only to physicians in training, but to the sustained commitment to education and continuous improvement across the span of their professional careers.

Translational Outlook. Translating biomedical research from the laboratory bench, clinical trials, or global observations to the care of individual patients can expedite discovery of new diagnostic tools and treatments through multidisciplinary collaboration. Effective translational medicine facilitates implementation of evolving strategies for prevention and treatment of disease in the community. The Institute of Medicine identified two areas in need of improvement: testing basic research findings in properly designed clinical trials and, once the safety and efficacy of an intervention has been confirmed, more efficiently promulgating its adoption into standard practice (Sung NS, Crowley WF, Genel M. The meaning of translational research and why it matters. *JAMA.* 2008;299:3140-3148).

The National Institutes of Health (NIH) has recognized the importance of translational biomedical research, emphasizing multifunctional collaborations between researchers and clinicians to leverage new technology and accelerate the delivery of new therapies to patients (www.ncats.nih.gov/about).

Authors are asked to position their work in the context of the scientific continuum, by identifying impediments and challenges requiring further investigation and anticipating next steps and directions for future research.

HIGHLIGHTS. These are required for Original Research Papers and State-of-the-Art Reviews. These will be placed next to your Visual Abstract (for Original Research Papers) or Central Illustration (for State-of-the-Art Reviews) in the final version of your manuscript.

Please provide a list of 3-4 brief bullet points that highlight the main messages of the review. The highlights should be between about 75 to 120 words in length. The first bullet should provide the translational/clinical context or background that establishes the relevance or need for this review. The second bullet should speak to the main message and focus of the review, including any recommendations made by the authors. The final bullet should summarize where the field needs to move forward from this point. Example:

- The acute inflammatory response is a critical mechanism for host defense, whereas the resolution of inflammation is equally important for tissue homeostasis by delimiting the destructive effects of chronic inflammation.
- This review will discuss the role of the activation of the G-protein coupled formyl peptide receptor 2 (ALX/FPR2) in terms of regulating the resolution of inflammation following tissue injury, and will specifically focus on the role of lipid mediators in activating the ALX/FPR2 receptor.
- Additional studies will be required to clarify whether activation of the ALX/FPR2 receptor can be used therapeutically to prevent chronic inflammation, scar tissue formation following acute tissue injury.

ACKNOWLEDGEMENTS. Acknowledgments should contain 100 words or less. Signed letters of permission from all individuals listed in the acknowledgments must be submitted to *JACC: Basic to Translational Science*.

REFERENCES

- Identify references in the text with superscript numerals. Do not use EndNote.
- The reference list should be double-spaced on pages separate from the text; references must be numbered consecutively in the order in which they are mentioned in the text. List all authors if 6 or fewer, otherwise list the first 3 and add “et al.” Do not use periods after author initials.
- Do not cite personal communications, manuscripts in preparation, or other unpublished data in the references; these may be cited in the text in parentheses. Do not cite abstracts that are older than 2 years. Identify abstracts by the abbreviation “abstr” in parentheses. If letters to the editor are cited, identify them with the word “letter” in parentheses. Websites must be cited as references (i.e., any URLs cited in the text or tables must be included as references rather than in the text or table).
- Use Index Medicus (National Library of Medicine) abbreviations for journal titles. It is important to note that when citing an article from the *JACC: Basic to Translational Science*, the correct citation format is *J Am Coll Cardiol Basic Trans Science*.

• Use the following style and punctuation for references:

- Periodical. Do not use periods after the authors’ initials. Please provide all page numbers: Example: “5. Glantz SA. It is all in the numbers. *J Am Coll Cardiol*. 1993;21:835-837.”
- DOI-based citation for an article in press.
 - If the ahead-of-print date is known, please provide. EXAMPLE: “16. Winchester D, Wen X, Xie L, et al. Evidence for preprocedural statin therapy: meta-analysis of randomized trials. *J Am Coll Cardiol*. 2010. <https://doi.org/10.1016/j.jacc.2010.09.028>.”
 - If the ahead-of-print date is unknown, please omit. EXAMPLE: “16. Winchester D, Wen X, Xie L, et al. Evidence for pre-procedural statin therapy: meta-analysis of randomized trials. *J Am Coll Cardiol*. <https://doi.org/10.1016/j.jacc.2010.09.028>.”
- Chapter in book. Provide author(s), chapter title, editor(s), book title, publisher location, publisher name, year, and inclusive page numbers. EXAMPLE: “27. Meidell RS, Gerard RD, Sambrook JF. Molecular biology of thrombolytic agents. In: Roberts R, editor. *Molecular Basis of Cardiology*. Cambridge, MA: Blackwell Scientific Publications, 1993:295-324.”
- Book (personal author or authors.) Provide a specific (not inclusive) page number. EXAMPLE: “23. Cohn PF. *Silent Myocardial Ischemia and Infarction*. 3rd edition. New York, NY: Marcel Dekker, 1993:33.”
- Online media. Provide specific URL address and date information was accessed. EXAMPLE: “10. Henkel J. Testicular Cancer: Survival High With Early Treatment. FDA Consumer magazine [serial online]. January-February 1996. Accessed August 31, 1998. http://www.fda.gov/fdac/features/196_test.html.”
- Material presented at a meeting but not published. Provide authors, presentation title, full meeting title, meeting dates, and meeting location. EXAMPLE: “20. Eisenberg J. Market forces and physician workforce reform: why they may not work. Paper presented at: Annual Meeting of the Association of Medical Colleges; October 28, 1995; Washington, DC.”

AMA Manual of Style. The *JACC Journals* follow the *AMA Manual of Style* with minor modifications. This guide provides guidance on usage, including but not limited to sociodemographic descriptors and nomenclature. For more detailed information on what’s new in the 11th edition, see the slide set here: <https://www.amamanualofstyle.com/page/aboutAMAMOS11>.

FIGURES

- All figures must have a number, title, and caption.
- TIF figures are preferred.
- Typeset figures should be no smaller than 7 inches wide.
- Lettering should be of sufficient size to be legible after reduction for publication; the optimal size is 12 points but should be no less than 10 points. Symbols should be of a similar size.
- Color and gray scale images must be at least 300 DPI. Line art should be at least 1200 DPI.
- All abbreviations used in the figure should be identified in an alphabetical order at the end of each legend.
- All symbols used (arrows, circles, etc.) must be explained.
- Figure numbers must correspond with the order in which they are mentioned in the text.

- If previously published figures are used, written permission from the original publisher (or copyright holder, if not the publisher) is required. See STM Guidelines for details: <https://www.stm-assoc.org/intellectual-property/permissions/permissions-guidelines/>.
- If the figure has been previously published, cite the figure source in the legend.
- Do not include trial logos in figures.

Decimals, lines, and other details must be strong enough for reproduction. Use only black and white—not gray—in charts and graphs. Place crop marks on photomicrographs to show only the essential field. Designate special features with arrows. All symbols, arrows, and lettering on half-tone illustrations must contrast with the background. There is no fee for the publication of color figures. Our editors encourage authors to submit figures in color, as we feel it improves the clarity and visual impact of the images.

FIGURE LEGENDS. Figure legends should be an in-depth explanation of each figure, including a figure a TITLE and a CAPTION that includes the purpose of the figure, and brief method, results, and discussion statements pertaining to the figure. All abbreviations used in the figure should be identified either after their first mention in the legend or in alphabetical order at the end of each legend. All symbols used (arrows, circles, etc.) must be explained. **Target length should be 50–100 words per figure, with the title no more than 10 words. Legends should not exceed 150 words.**

- All figures must have a number, title, and caption.
- Figure legends should be double-spaced on pages separate from the text.
- Figures should be cited in numerical order in the text with each figure called out individually, rather than using a range (for instance, Figures 1, 2, and 3, rather than Figures 1–3). Supplemental figures should be cited as “Supplemental Figure 1, Supplemental Figure 2,” etc.
- Figure titles should be short and followed by a 2- to 3-sentence caption.
- Your Visual Abstract (or Central Illustration) should be listed last.
- If the figure has been previously published, cite the figure source in the legend.

VISUAL ABSTRACTS AND CENTRAL ILLUSTRATIONS. All Original Research Papers should develop at least 1 **Visual Abstract** drawing or figure (that may be a hand-drawn figure), which summarizes the entire manuscript or at least a major section of the manuscript. All State-of-the-Art Reviews must develop at least 1 **Central Illustration** (that may be a hand-drawn figure), which summarizes the entire manuscript or at least a major section of the manuscript.

Our in-house medical illustrators will create the final printable versions of these figures in consultation with the authors and the editors. The purpose of both illustrations is to provide a snapshot of your paper in a single visual, conceptual manner. Trial logos should not appear in Visual Abstract or Central Illustrations.

The Central Illustration should be labeled as “Central Illustration,” rather than as a numbered figure, and it must not duplicate content from other figures in the manuscript. This illustration must be called out in the body of the article. It must be accompanied by a legend (title and caption). The Central Illustration legend should be listed last in your list of figure legends. The Central Illustration must be an original image and, for copyright reasons, cannot be adapted or reprinted from another source.

For best practices on creating visual abstracts, please see The Art and Challenge of Crafting a Central Illustration or Visual Abstract at <https://www.jacc.org/doi/full/10.1016/j.jacc.2019.10.035>.

TABLES. Each table should be on a separate page, with the table number and title centered above the table and explanatory notes below the table. Use Arabic numbers. Table numbers must correspond with the order cited in the text. Tables should be self-explanatory, and the data presented in them should not be duplicated in the text or figures.

- All tables must have a title of up to 15 words.
- Each table may include a caption of up to 100 words. Abbreviations, which do not count toward the caption word limit, should be listed in a footnote under the table in alphabetical order.
- Footnote symbols should use lowercase, superscript letters, in alphabetical order: ^a, ^b, ^c, etc.
- If previously published tables are used, written permission from the original publisher (or copyright holder, if not the publisher) is required.
- Cite the source of the table in the footnote.

SUPPLEMENTAL MATERIAL. Authors may submit supplemental material to accompany their article. The supplemental material should be essential to the understanding and interpretation of the primary manuscript and should contain original content that has not been previously published. The supplemental material will be posted online at the same time of publication of the article.

Please upload all supplemental materials, with the exception of videos and large data sets (see below), as one separately uploaded Word document that is labeled “Supplemental Appendix.” The pages of the Supplemental Appendix should be numbered consecutively. The first page of the Supplemental Appendix should list the title and page number of each element included in the document.

The Supplemental Appendix document may include the following elements:

- Supplemental methods
- Supplemental results
- Supplemental tables (e.g., Supplemental Table 1, Supplemental Table 2)
- Supplemental figures with accompanying figure legends (e.g., Supplemental Figure 1, Supplemental Figure 2)
- All references that are cited within supplemental material should be placed in a separate reference section that is at the end of the supplemental material. The references should be formatted just as in the main manuscript and numbered and cited consecutively in the Supplemental Appendix.

All supplemental material will undergo editorial and peer review at the same time as the main manuscript is being evaluated. **Once the manuscript is accepted for final publication, the content of the supplemental material cannot be changed.**

LARGE DATA SETS. Large data sets for gene expression microarrays, SNP arrays, proteomics data, and high-throughput sequencing studies should be deposited in a public data repository (1,2). Microarray data must be deposited in a public database that is compliant with Minimum Information About a Microarray Experiment (MIAME) guidelines (e.g., GEO). High-throughput sequencing data must be deposited in a public database that is compliant with Minimum Information About a Next-generation Sequencing Experiment (MINSEQE) guidelines. For proteomics data, the ProteomeXchange Consortium (<http://www.proteomexchange.org/>) provides data submission and dissemination pipelines involving the main proteomics repositories, including PRIDE, PeptideAtlas, MAssIVE, iProX, and

Panorma Public. Please provide the relevant accession numbers in the text of the main manuscript.

1. Wheeler DL, Barrett T, Benson DA, et al. Database resources of the National Center for Biotechnology Information. *Nucleic Acids Res.* 2007;35:D5-12.
2. Edgar R, Barrett T. NCBI GEO standards and services for microarray data. *Nat Biotechnol.* 2006;24:1471-2.

VIDEO REQUIREMENTS. Inclusion of videos in the published paper is at the discretion of the Editors.

- Video submissions for viewing online view should be submitted as MP4 files only. The Journal office will not accept any other file formats.
- Videos should be brief (2-4 minutes). Longer videos will require longer download times and may have difficulty streaming online. Videos should be restricted to the most critical aspects of your research. A longer procedure can be restructured as several shorter videos and submitted in that form.
- It is advisable to compress files to use as little bandwidth as possible and to avoid overly long download times. Video files should be less 15 MB. This is a suggested maximum. If files are larger, please contact the *JACC: Basic to Translational Science* office (jaccbts@acc.org).
- A video legends page giving a brief description of the content of each video should be included in the manuscript. Please note that ALL videos must be linked to figures or panels of a figure(s).
- Videos should be cited in numerical order in the text with each video called out individually, rather than using a range (for instance, Videos 1, 2, and 3, rather than Videos 1-3). Videos should be cited as “Video 1, Video 2,” etc.
- If your paper is accepted for publication, you may wish to supply the editorial office with your video files in several different resolutions. This will allow viewers with slower connections to download a lower resolution version of your video.

EDITORIAL POLICIES. All manuscripts must be submitted online at <https://www.jaccsubmit-basicts.org>. By submitting an article to the Journal, all authors of the submission agree to receive emails from all the American College of Cardiology’s *JACC* Journals regarding the manuscript, including editorial queries while the manuscript is under review and emails from the publisher should the paper be accepted for publication. The contact information provided by the corresponding author will be included in the galley proofs, the published PDF version of the manuscript, and the online version of the manuscript.

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