



Your Main Artery for
Discovery in Cardiovascular
and Stroke Science

Overview & Publishing Guide

AHAjournals.org



American
Heart
Association.

Professional Heart Daily



Delivering science and clinical
guidance you can trust

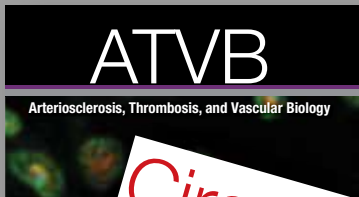
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Table of Contents

2	The AHA Journals' Mission
4	Impact of the AHA Journals
5	AHA Journals' Publishing Process
6	Author Services and Benefits
9-19	AHA Journals' Publishing Requirements and Policies
10	Manuscript Submission Requirements
12	Research Guidelines
14	TOP Guidelines
17	Statistical and Figure Recommendations
19	Public Access and Prior Publication Policies
20	Article Discoverability Tips
22-47	Highlights and Information About Each AHA Journal



Your Main Artery for Discovery in Cardiovascular and Stroke Science

Rigorous, dependable research has always been at the core of the American Heart Association (AHA) mission: To be a relentless force for a world of longer, healthier lives.

Offering 13 scientific research journals that cover the breadth of cardiovascular and cerebrovascular disease, the AHA serves the specific needs of investigators and clinicians in subspecialties by providing online access to full-text articles for Professional, Early Career, and Student/Trainee members, and fast-track and Open Access options for authors.

When you publish in, review for, or read the 13 AHA Scientific Journals, you join our fight for a world free of cardiovascular disease and stroke.

Immediate
Impact.
Global
Influence.

AHAjournals.org/metrics



>27 Billion
MEDIA IMPRESSIONS*



>56 Million
ARTICLE VIEWS†



>530,210
TOTAL CITES‡



>34 Million
ONLINE VISITS†



>183,900
TWITTER FOLLOWERS§

*From July 1, 2021, to June 30, 2022. Source: American Heart Association.
 †Metrics represent data collected by Atypon, Wolters Kluwer, and Wiley in 2021.
 ‡2021 Journal Citation Reports (Clarivate Analytics, 2022).
 §As of July 2022.

Immediate Impact + Enduring Foundational Value

As a world leader in peer-reviewed cardiovascular and cerebrovascular research, we're not simply publishing findings — we're publishing research with immediate impact and enduring foundational value.

World-renowned for research that commands influence and respect while serving science and society, the 13 AHA Journals advance the rate of innovation in their respective fields and the application of the latest science into clinical practice.

Trusted Evidence
Coverage of the Entire Field
From Discovery to Practice
For Career Achievement

From reputation and discoverability to reach, the 13 AHA Journals offer the impact you need to influence cardiovascular and stroke science today—and tomorrow.

Innovation Sparked | Novel Science Shared | Advances in Patient Care Implemented

Publish in the AHA Journals

We Look Forward to Reviewing Your Work.

We understand that it takes more than a single metric to evaluate where to publish your work. That's why we make critical publishing statistics readily available to our authors. Please review the chart below for an overview of key measurements of each journal's impact.

Visit the website at the bottom of this page to access each AHA Journal submission site and Instructions for Authors.

Journal	Journal Impact Factor*	5-Year Journal Impact Factor*	Total Cites*	Article Views†	Online Visits†
ATVB	10.514	8.891	41,650	>2.5 Million	>1.6 Million
Circulation	39.918	33.499	>202,840	>25.5 Million	>15 Million
Circulation Research	23.213	25.228	>72,810	>4.3 Million	>2.5 Million
Hypertension	9.897	10.001	>47,090	>5.3 Million	>3.6 Million
Stroke	10.170	9.939	>86,000	>8.1 Million	>4.6 Million
JAHA	6.106	6.747	>35,300	>4.8 Million	>3.4 Million
Circulation: Arrhythmia and Electrophysiology	7.718	7.154	>9,430	>1.3 Million	>873,000
Circulation: Cardiovascular Imaging	8.589	10.035	>8,700	>821,000	>535,000
Circulation: Cardiovascular Interventions	7.514	7.662	7,400	>815,000	>506,000
Circulation: Cardiovascular Quality and Outcomes	8.271	7.846	>7,350	>933,000	>675,000
Circulation: Genomic and Precision Medicine	7.465	7.572	>1,580	>403,000	>258,000
Circulation: Heart Failure	10.447	10.086	>10,060	>1 Million	>707,000
Stroke: Vascular and Interventional Neurology	NA	NA	NA	NA	NA

*2021 Journal Citation Reports (Clarivate Analytics, 2022). †Metrics represent data collected by Atypon, Wolters Kluwer, and Wiley in 2021.



Understand Your Submission Path With the AHA Journals

STEP
1

Submit Your Article One Time to Your Choice of AHA Journals

- Confirm your research fits the scope of the journal.
- Follow the Author Instructions.
- Make a good first impression with the article title and abstract.

STEP
2

Your Submission Will Be Considered for All 13 Prestigious, High-Impact AHA Journals

- When a manuscript is submitted to an AHA Journal, it may be referred to another AHA Journal before or after peer review.

STEP
3

Receive Your Decision Letter

- Revise if indicated in your decision letter.
- If rejected, you may be referred to another AHA Journal. Good news! This saves you time – just confirm your interest in submitting to the journal, and revise if requested.

AHAjournals.org/all-submission-sites



Enhance Your Publishing Experience | Maximize the Discoverability of Your Work



Benefits and Services for Authors Who Publish in the AHA Journals



Enhance the Quality of Your Manuscript

Wolters Kluwer Author Services provides authors with a range of editorial and educational services designed to help with manuscript preparation for publication in professional medical, nursing, and allied health journals. Our services combine the authoritative, trusted healthcare information from Wolters Kluwer with scientific communication and language editing services provided by Editage.

Wolters Kluwer Author Services will help you eliminate language barriers and publish confidently in English-language journals. Since 2002, Editage has helped more than 274,000 authors from 192 countries achieve their communication goals.

wkauthorservices.editage.com

Expand the Reach of Your Work

The AHA Journals are a premier collection available on Wolters Kluwer's Institutional platform, Ovid. In addition to the more than 25,000 AHA members and individual subscribers who access the AHA Journals via the online platform (AHAjournals.org), researchers, clinicians, and other healthcare professions at more than 5,000 of the world's leading medical, academic, and corporate institutions have access to the AHA Journals on Ovid.com.

Thousands of users rely on access to the AHA Journals via the Ovid platform as an efficient, trusted solution for research and staying current on the latest studies effecting clinical practice.

www.ovid.com

Comply With Funder Open Access Mandates

To meet the needs of funders or to maximize article visibility, authors of accepted, Original Research articles can select to publish under an Open Access Agreement in the AHA's 11 traditional journals published by Wolters Kluwer.

In addition, *JAHA* – *Journal of the American Heart Association* and *Stroke: Vascular and Interventional Neurology* are the AHA's fully Open Access journals. *JAHA* and *S:VIN* are also available via the Wiley Open Access portal.

All Open Access articles are subject to peer review, editorial oversight, and the selected AHA Journals' production process. More information on steps to publishing your article as Open Access in the AHA Journals, along with FAQs, can be found online.

AHAjournals.org/open-access-information



Contribute to Improved Global Health

In partnership with the World Health Organization's Health InterNetwork Access to Research Initiative (HINARI) and the sister program Research4Life, the AHA Journals are available electronically on Wolters Kluwer's Ovid medical research platform. More information is available online, including how to register an institution.

www.who.int/hinari



Track the Immediate Impact of Your Research

Thousands of conversations about scholarly content happen online every day. Altmetric tracks the AHA Journals' content and reports the attention that articles receive from tweets, blog posts, newspaper coverage, and beyond. The results are dynamic measurements of how research from the AHA Journals is shared and discussed socially.

Researchers are asked to show the impact that their papers have beyond citations. These new forms of sharing offer insight into the more immediate scholarly impact of a specific article. In addition, usage statistics are integrated to show how many times articles have been downloaded.

Look for the Altmetric symbol with each AHA Journal article.

www.altmetric.com



Key Benefits of Choosing to Publish Your Manuscript Open Access in the AHA Journals

Quality and authoritative publishing experience with leading journals in the field

Robust peer review

Free access to your research on AHA Journal websites and PubMed Central® immediately, permanently, and globally

Compliance with funder-mandated Open Access policies

You retain copyright

Submission and deposit in PubMed Central on your behalf

AHA Scientific Statements and Clinical Practice Guidelines

Published in the AHA Journals

Available on Professional Heart Daily

Actionable at the Point of Care With Our Mobile App



Latest Advice



Quick Search
for Answers



Best-Available
Evidence



>575 Topics
Covered



1991– Present

Retrieve the latest evidence no matter where you are, along with additional support detail, with the **AHA Guidelines On-the-Go app**.



professional.heart.org/statements



What to Expect When You Publish in the AHA Journals

Authors are encouraged to familiarize themselves with AHA policies and guidelines, as well as the individual journal author instructions, before submission of a manuscript for review.

For quick reference, we've summarized the top policies and guidelines, including the minimum submission requirements, on pages 10-19 of this AHA Journals' Overview & Publishing Guide.



A complete, up-to-date list of all policies and requirements can be found by scanning the QR code or visiting online at AHAjournals.org/policies

Our goal in developing these guidelines is to reduce the burden on authors of extensive reformatting while ensuring that manuscripts are sufficiently complete and uniform to allow for consistent and thorough review.

AHA Journals are committed to publishing high-quality research and upholding accepted standards of methodological rigor, reproducibility, and transparency. Ongoing initiatives include: methodological checklists for preclinical research, reporting guidelines for clinical studies and trials, Transparency and Openness Promotion (TOP) guidelines, and statistical and methodological review when appropriate.

PART 1



AHAjournals.org/submission-requirements







Manuscript Submission Requirements

The following minimum submission requirements have been developed for the full AHA Journals' portfolio. Please review the guidelines carefully, because manuscripts that do not adhere to these requirements may be returned for correction.

Additional manuscript preparation guidelines for the AHA Journals are available at *AHAjournals.org/submission-requirements*.







Minimum Submission Requirements

We will consider initial Original Research Article submissions that are not formatted according to AHA Journal standards. Detailed submission guidelines, including word and display item limits by article type, can be found in individual journal Author Instructions; however, Original Research manuscripts will only be returned to authors if they do not meet the format-free Minimum Submission Requirements:

- 
Provide all files needed for review
 Include the Full Manuscript PDF or the following individual files: Manuscript Text File, Figures, and Supplemental Material.
- 
Assemble the manuscript in this order
 Title Page, Abstract, Text (Introduction, Methods, Results, Discussion), Acknowledgments, Sources of Funding, Disclosures, References, Figure Legends, Tables, and Figures. References, Figures, and Tables should be cited in numerical order according to first mention in the manuscript.
- 
Manuscript format
 Number every page except the title page. References, figures, and tables should be cited in numerical order according to first mention in the text.
- 
Guidelines and policies
 Familiarize yourself with the AHA guidelines and policies outlined before submission. In addition, manuscripts must conform to “Uniform Requirements for Manuscripts Submitted to Biomedical Journals” (www.icmje.org).

Submission File Requirements

When submitting your manuscript, provide the following items as needed.

- 
Online Submission Is Required
 Visit AHAjournals.org/all-submission-sites to access the submission site for each AHA Journal.
- 
Complete Manuscript PDF
 PDF containing all parts of the manuscript including references, figure legends, figures, and tables.
- 
Manuscript Text File
 For word count and reference extraction, please provide a manuscript text file (e.g., MS Word).
- 
Figures
 For initial review, it is preferred that each figure and its corresponding legend should be presented together on its own page within the Complete Manuscript PDF. Full resolution figure files are not required at initial submission. Figures for review can be uploaded as a single PDF or as part of a Complete Manuscript PDF.
- 
Supplemental Material
 Supplemental material should be uploaded as a complete PDF containing all supplemental text and figures. Video files and large datasets (in Excel file format) should be uploaded separately.
- 
Other Material
 If applicable, any overlapping publications or previously published abstracts, along with a copy of any submitted or in-press references mentioned in the manuscript, should be submitted.



Research Guidelines

The following is a condensed version of the Research Guidelines and Policies for the AHA Journals. Please review the guidelines carefully. Adherence to these guidelines may be required for publication. Complete and up-to-date Research Guidelines are available online at:

AHAjournals.org/research-guidelines

Research and Reporting Guidelines

Manuscripts submitted to the AHA Journals should conform to the following guidelines as appropriate.

For all study designs or methodological approaches, use of Equator Network reporting guidelines is strongly encouraged. At initial submission, authors are strongly encouraged to upload a completed copy of the relevant reporting guidelines checklist with their manuscript files.



CONSORT

Guidelines for Randomized Controlled Trials
www.consort-statement.org



STROBE (& MOOSE)

Guidelines for observational studies
www.strobe-statement.org



PRISMA (& MOOSE)

Guidelines for systematic reviews and meta-analyses
www.prisma-statement.org



STARD

Guidelines for studies of diagnostic accuracy
www.equator-network.org/reporting-guidelines/stard



ARRIVE

Guidelines for reporting animal research
arriveguidelines.org/



Disparities Research Guidelines

AHAjournals.org/disparities-research-guidelines

Guidelines for Clinical Research and Trials

Demographic information, including sex and race/ethnicity, should be reported when appropriate in describing the outcomes of epidemiologic analyses or clinical trials, or specifically state that no sex-based or race/ethnicity-based differences were present.

Trial Registration

In accordance with the Clinical Trial Registration Statement from the International Committee of Medical Journal Editors (www.icmje.org/), all clinical trials in AHA Journals must be registered in a public trials registry at or before the onset of participant enrollment. Any research study that prospectively assigns human participants or groups of humans to one or more health-related intervention(s) to evaluate the effects on health outcomes is considered a clinical trial. **Those who are uncertain whether their trial meets the ICMJE definition of a clinical trial should err on the side of registration if they wish to seek publication. The registry sponsored by the United States National Library of Medicine (www.clinicaltrials.gov) meets these requirements and is recommended by the editors.**

The authors will be requested to provide the exact URL and unique identification number for the trial registration at the time of submission; if accepted, authors will need to include this information in the abstract under the heading "Registration."

Independent Data Access and Analysis

It is preferable for investigators to have direct access to the primary data from a clinical trial (raw and derived datasets) for analysis and reporting of trial results. At a minimum, the authors should have the ability to query any aspect of the data either directly or through independent analysis.

Guidelines for Drugs and Reagents

Give generic rather than trademark names of drugs. The generic chemical identification of all investigational drugs must be provided. The complete name and location of the manufacturer must be supplied for all reagents, equipment, and devices used in the Methods.

Ethical Approval and Informed Consent

For research involving human participants, authors should adhere to the recommendations of the ICMJE for Protection of Research Participants. Authors must include in the Methods section of their submission a statement indicating that the study was approved by an institutional review board along with the name of the IRB, and that the participants gave written informed consent (or that no informed consent was required). Documentary evidence of institutional review and participant consent must be supplied if requested.

When publishing identifiable images from human research participants, authors must include a statement in the published paper affirming that they have obtained informed consent for publication of the images. Images may be cropped to remove nonessential identifying details and protect patient anonymity but should not be otherwise altered.

Data Deposition and Data Availability

In general, to allow others to replicate and build on work published in AHA Journals, we strongly recommend that authors make materials, data, code, and associated protocols available to readers. Authors must disclose upon submission of the manuscript any restrictions on the availability of materials or information.

Research Methods and Materials Availability

Authors should ensure that published Methods are detailed enough to enable readers to replicate the experiments and are encouraged to use public repositories for protocols, data, code, and other materials. We recommend and encourage you to deposit laboratory protocols in a repository such as protocols.io, where protocols can be assigned their own persistent digital object identifiers (DOIs).

All biological materials, including plasmids, cell lines, and model organisms, should be made available to qualified investigators upon reasonable request and we strongly encourage authors to deposit copies of their plasmids as DNA or bacterial stocks with repositories. Authors are strongly encouraged to deposit new cell lines in repositories that will distribute them with certificates of authentication. Authors may be asked to report on the source and authentication of their cell lines. Authors are encouraged to include Research Resource Identifiers (RRIDs) when possible, as described by the Resource Identification Initiative.

AHA Journals'
Publishing Policies

PART

3



AHAjournals.org/top-guidelines



Transparency and Openness Promotion (TOP) Guidelines for Authors Publishing in the AHA Journals

Preregistration of Studies and Analysis Plans

The policy of the AHA Journals is to publish papers that include a link to preregistration of the study and/or analysis plan if applicable. Preregistration of studies involves registering the study design, variables, and treatment conditions (eg, clinicaltrials.gov, socialscienceregistry.org, openscienceframework.org, egap.org/design-registration, ridie.3ieimpact.org). Including an analysis plan involves specification of sequence of analyses or the statistical model that will be reported.

If authors have preregistered the study, a link to the preregistration or the registry and unique identifier of the preregistration must be included at the beginning of the Methods section on submission of the paper.

If an author preregistered the research with an analysis plan, the author must:

- a. Confirm in the text that the study was registered before conducting the research with links to the time-stamped preregistration(s) at the institutional registry, and that the preregistration adheres to the disclosure requirements of the institutional registry or those required for the preregistered badge with analysis plans maintained by the Center for Open Science.
- b. Report all preregistered analyses in the text or, if there were changes in the analysis plan following preregistration, those changes must be disclosed with explanation for the changes.
- c. Clearly distinguish in text analyses that were preregistered from those that were not, such as having separate sections in the Results section for confirmatory and exploratory analyses.

Replication

The policy of the AHA Journals is to hold replication studies to the same standards as other content submitted to the journals.

Data, Analytic Methods (Code), and Research Materials Transparency

The policy of the AHA Journals is to publish papers where authors indicate whether the data, methods used in the analysis, and materials used to conduct the research will be made available to any researcher for purposes of reproducing the results or replicating the procedure. A list of potential data repositories is available at: professional.heart.org/en/research-programs/aha-research-policies-and-awardee-hub/aha-approved-data-repositories.

1. Authors must, at the beginning of the Methods section, indicate whether they will or will not make their data, analytic methods, and study materials available to other researchers. Examples of disclosure statements are available at: AHAjournals.org/TOP-guidelines/ExampleDisclosures.
2. If an author agrees to make materials available, the author must specify where that material will be available and is responsible for maintaining availability.


Design and Analysis Transparency

The policy of the AHA Journals is to publish papers where authors follow standards for disclosing key aspects of the research design and data analysis. Authors are encouraged to review the standards available for many research applications from Equator Network (www.equator-network.org) and use those that are relevant for the reported research applications.

Citation Standards

The policy of the AHA Journals is to publish papers where data, program code, and other methods are appropriately cited using digital object identifiers (DOIs), journal citations, or other persistent identifiers. Such materials should be recognized as original intellectual contributions and afforded recognition through citation.

 **DATA SET CITATION FORMAT:**
Creator. Title. Publisher. Identifier
(Publication Year).

 **DATA SET CITATION EXAMPLE:**
Chen J et al. Common genetic variation in ETV6 is associated with colorectal cancer susceptibility. Dryad Digital Repository. doi:10.5061/dryad.7dj7t (2016).



The Latest Research in Your Specialty Delivered Directly to You

SIGN UP

for Free Electronic Alerts
From the AHA Journals!

Sign up for 1 or more of the 13 regular electronic email alerts (eAlerts) from the AHA Journals or choose to receive content specific to your interests as it's published. You control your preferences and can adjust your selections, or add new eAlerts, at any time. Visit your profile at **AHAjournals.org**.

- Quickly scan and access recently published articles.
- Stay up-to-date on cutting-edge scientific content.
- Share content with colleagues and researchers.



Go to **AHAjournals.org** to sign up or modify your eAlert preferences and profile. Select "Sign In" and then "My Alerts" to manage your free eAlert account.

PART
4

AHAjournals.org/policies

Statistical and Figure Recommendations

Statistical analyses are a crucial component of the biomedical research process and are necessary to draw inferences from biomedical research data. The application of sound statistical methodology is a prerequisite for publication in the AHA Journals' portfolio. Authors intending to submit manuscripts to any of the AHA Journals are encouraged to review the Recommendations for Statistical Reporting in Cardiovascular Medicine developed by the AHA Scientific Publishing Committee Statistics Task Force, available at AHAjournals.org/statistical-recommendations.

Figures are key tools for communicating concepts and data within an article. Authors should ensure that their figures, labels, and legends are accurate and clear. Figures representing data need to be designed and presented in a way that allows readers to understand and critically interpret the data. Guidance for figures can be found at AHAjournals.org/figure-guidelines.



American
Heart
Association.

AHA Membership advances your career

- Annually award over \$100 million in research funding
- Earn Fellow of the AHA credentials
- Annually award almost \$500,000 in Council Awards
- Present your science at AHA Scientific Sessions
- Earn CME/CE with online learning... at a discount
- Exclusive access to our Professional Volunteer Search
- Apply/Post on our Job Resources tool
- Full access to all online AHA scientific journals
- Exclusive access to network with key science leaders

professional.heart.org/membership





AHAjournals.org/policies



Prior Publication and Public Access Policies

Manuscripts are considered on the understanding that they contain original material, that the manuscript and material within the manuscript have not been published and are not being considered for publication elsewhere in whole or in part in any language, except as an abstract.

Posting of unrefereed manuscripts to a community preprint server by the author will not be considered prior publication. Abstracts, webcasts, and meeting presentations are not typically considered prior publication. More information is available at AHAjournals.org/prior-publication-policy.

AHA Journals are compliant with many research funding agencies that require or request authors to submit the post-acceptance manuscript (the article after peer review and acceptance but not the final published article) to a repository that is accessible online by all without charge. Authors are encouraged to refer to their funder's policies to ensure they are complying with the most recent guidelines. Authors may initiate the deposit if they prefer, but the Publishers will review the Copyright Transfer Agreement/License to Publish Agreement and initiate the appropriate deposit based on the information provided. All original research articles are freely available from the 11 hybrid AHA Journals' websites within 6 months of final publication. All other articles are freely available within 12 months of final publication. As Open Access journals, *JAHA* and *S:VIN* content is freely available on publication. More information is available at AHAjournals.org/public-access-policy.

Tips to Make Your Work More Discoverable

When your study is easily discovered in an online search, you increase your chances of being read, cited, and/or having your findings implemented in practice.

If accepted for publication, your article will be included in, and searchable across, all AHA Journals' websites at AHAjournals.org, Google Scholar, Google, and PubMed.

Google and Google Scholar have become the primary avenue in which researchers and clinicians find scientific articles online today. They account for 60% of global referral traffic to the AHA Journals online. Combined with the volume of research articles published every year, ensuring that others can find your published article on these search engines is essential.

Search Behavior Fact:



People rarely investigate beyond the first 20 results from Google.

Standard Rules and Recommended Guidelines



1. Imagine what a researcher or clinician might search for if your paper would be of interest to them. What would you search to find something on the topic?



2. Ensure the article title is descriptive, accurate, and reads well. The main key phrase for your topic should be in your article title.



3. Repeat key descriptive phrases or your AHA Subject Terms in your abstract. Google can detect abuse if this tactic is used, so don't overuse it. Focus on just 3 or 4 key phrases or words in your abstract.



4. Write for your audience. Ensure your abstract reads well and flows naturally. Be mindful of how search engines work but don't force the use and reiteration of key phrases and words if it disrupts the readability.



Select Appropriate AHA Subject Terms



Select the appropriate terms that most closely describe the broad subject area of your manuscript.



View the complete list at:

AHAjournals.org/journal-subject-terms



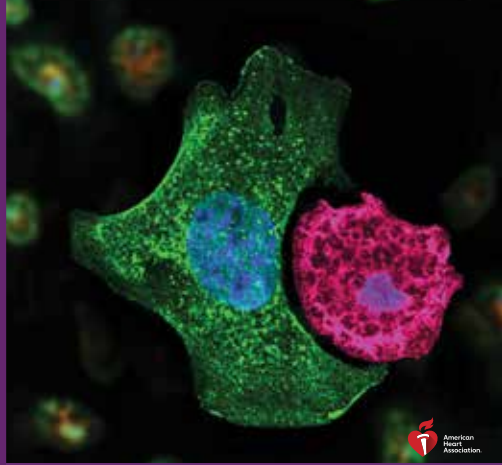
Accurate terms broaden the reach of your manuscript and guide researchers to find relevant, related content.

Use the Article Title and Abstract to Help Others Find Your Work

The article title and abstract are free for anyone to view online. Communicate the purpose and findings of your study clearly, accurately, and effectively.

ATVB

Arteriosclerosis, Thrombosis, and Vascular Biology



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Arteriosclerosis, Thrombosis, and Vascular Biology

Leading basic, translational, clinical, and population research related to arteriosclerosis, thrombosis, and vascular biology

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Manuscript Submission

atvb-submit.aha-journals.org

Journal Impact Factor: 10.514*

AHAjournals.org/metrics

Open Access Option

[AHAjournals.org/
open-access-information](http://AHAjournals.org/open-access-information)

Frequency: Monthly

Launch Year: 1981

AHAjournals.org/journal/atvb

Submission to First Decision:

12.4 days.§

Acceptance to Online Publication:

18 days.§

Far-Reaching Impact



>17 Million
MEDIA IMPRESSIONS[†]



>2.5 Million
ARTICLE VIEWS[‡]



41,650
TOTAL CITES^{*}



>1.6 Million
ONLINE VISITS[‡]



>3,390
TWITTER FOLLOWERS[§]

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

†From July 1, 2021, to June 30, 2022. Source: American Heart Association.

‡Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

§As of July 2022.



ATVB Early Career Awards

ATVB encourages submissions from early career investigators. The journal recognizes these investigators through prizes for publication of full length original contributions that are awarded annually in each of the three major areas of the journal's science.

The first or last author must be within 10 years of an initial faculty (or equivalent) appointment.

Recipient will be recognized both in the journal and at the Annual Vascular Discovery Conference.

Learn more at AHAjournals.org/atvb/early-career-awards.

FIT/Early Career Resources



SAVE TIME

Graphic Overview

Digest the highlights of an article quickly with a visual overview of select articles.



BE RECOGNIZED

Early Career Investigator Awards

Categories: Karl Link Award in Thrombosis, Daniel Steinberg Award in Arteriosclerosis, and Werner Risau Award in Vascular Biology. Includes a cash prize, plaque, and travel grant to the AHA Vascular Discovery Scientific Sessions.

AHAjournals.org/atvb/early-career-awards



GET INVOLVED

Early Career Editorial Board Positions Available Exclusively for AHA Members

The ATVB Early Career Editorial Board offers young professionals the opportunity to develop a credential for career advancement and to become familiar with journal publishing at an early career stage. Call for applications occurs each year in the spring. To apply, please send a personal letter describing your interest in the position, letter of recommendation, and your CV to atvb@atvb.org. Or, contact the journal office at this email address to learn more.



The Journal Community and Network

AHA Council on Arteriosclerosis, Thrombosis and Vascular Biology (ATVB)

The council advances and coordinates research, addresses prevention, improves methods for diagnosis and treatment, and works actively with other organizations concerned with these issues. The council disseminates reliable information related to these fields through its annual conference, many awards and lectures, and the AHA's journal, *Arteriosclerosis, Thrombosis, and Vascular Biology*.

professional.heart.org/atvbcouncil

Circulation

FRAME OF REFERENCE	ORIGINAL RESEARCH ARTICLES
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ORIGINAL RESEARCH ARTICLES Associations of Dietary Cholesterol, Serum Cholesterol, and Egg Consumption With Overall and Cause-Specific Mortality: Systematic Review and Updated Meta-Analysis Z. Zhou, ... J. Huang 1506	Cardiac Resident Macrophage-Derived Legumain Improves Cardiac Repair by Promoting Clearance and Degradation of Atherosclerotic Cardiomyocytes After Myocardial Infarction D. Xu, ... J. Gu 1542
Editorial What Eggsactly Are We Asking Here? Unscrambling the Epidemiology of Eggs, Cholesterol, and Mortality D. S. Cook 1521	CORRESPONDENCE Research Letter E-Cigarette Use and Risk of Cardiovascular Disease: A Longitudinal Analysis of the PATH Study (2013-2019) J. B. Ballester, ... A. C. Stepan 1557
Metagenomic and Polygenic Contributions to QTc Prolongation in the Population V. Naoufal, ... for the TOPMed Investigators 1524	



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Representing the best in the field of cardiovascular medicine and science as well as basic science, *Circulation* accelerates advancements in patient care through scientific research.

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Journal Impact Factor: 39.918*

AHAjournals.org/metrics

Open Access Option

AHAjournals.org/open-access-information

Frequency: Weekly

Launch Year: 1950

AHAjournals.org/journal/circ

Circulation ranks first in total citations among all journals in the Cardiac & Cardiovascular Systems category*

Far-Reaching Impact



>8.7 Billion
MEDIA IMPRESSIONS[†]



>25.5 Million
ARTICLE VIEWS[‡]



>202,840
TOTAL CITES*



>15 Million
ONLINE VISITS[‡]



>61,500
TWITTER FOLLOWERS[§]

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

†From July 1, 2021, to June 30, 2022. Source: American Heart Association.

‡Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

§As of July 2022.

Circulation on the Run



Circulation *On the Run* Podcast Series

Each 25-minute podcast begins with an overview of the issue's contents and main take-home message for each original research article for busy clinicians on the run. Then, the podcast provides a deep dive into a featured article of particular clinical significance. Views will be heard from both the author and the editor for additional insights about the publication.

Listen, and subscribe for free, in your preferred app store, "Circulation *On the Run*."

Access archived episodes at AHAjournals.org/circ/podcasts.

FIT/Early Career Resources



TEST YOURSELF

Case Challenges and CME

Improve your diagnostic skills and cardiovascular disease knowledge with the ECG Challenge of the Week and Cardiovascular Case Series features as well as designated CME articles. To participate, access on the journal's website, and select "ECG Challenge" or "Cardiovascular Case Series" from the "Features" menu.

AHAjournals.org/journal/circ

AHAjournals.org/cme



STAY UP TO DATE

Circulation at Major Meetings

We understand that you can't attend every meeting happening in the field. That's why *Circulation* offers a quick link to late-breaking science and simultaneous publications.

AHAjournals.org/circ/circ-major-meetings



SPECIAL THEMED ISSUES

Dedicated Issues to Important Subjects in Cardiovascular Medicine

Circulation dedicates itself to focusing on important subjects in cardiovascular medicine with 3 special issues each year: Go Red for Women in February, Disparities in Cardiovascular Medicine in Summer, and Cardiovascular Surgery in October.

AHAjournals.org/circ/special-themed-issues



The Journal Community and Network

AHA Council on Clinical Cardiology (CLCD)

The purpose of the council is to help promote excellence in clinical cardiology, advance the science in a variety of clinical cardiology areas, and foster professional development and education. Through council-sponsored symposia, panels, and scientific conferences, members can access new developments in the field and interpret and promote clinical cardiology to professional and lay audiences.

professional.heart.org/clcdouncil

Circulation Research



Circulation Research

The premier international journal in basic and translational cardiovascular biology and source for the most revolutionary research in the field

Editor-in-Chief

Jane Freedman, MD

Editorial Office

circres@circresearch.org

Instructions for Authors

AHAjournals.org/res/author-instructions

Manuscript Submission

circres-submit.aha-journals.org

Journal Impact Factor: 23.213*

AHAjournals.org/metrics

Open Access Option

AHAjournals.org/open-access-information

Frequency: Biweekly, with 24 issues per year

Launch Year: 1953

AHAjournals.org/journal/res

Submission to First Decision:

12 days.§

Acceptance to online publication:

7-9 days.§

Acceptance to Print Publication:

40 days.§

Far-Reaching Impact



>313 Million
MEDIA IMPRESSIONS[†]



>4.3 Million
ARTICLE VIEWS[‡]



>72,810
TOTAL CITES^{*}



>2.5 Million
ONLINE VISITS[‡]



>25,600
TWITTER FOLLOWERS[§]

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

†From July 1, 2021, to June 30, 2022. Source: American Heart Association.

‡Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

§As of July 2022.

Compendia

Developed as collections of articles with a strong thematic focus, *Circulation Research Compendia* are intended to facilitate cross-disciplinary approaches to prevention and treatment of cardiovascular disease and to enhance translation of basic science discovery from bench to bedside. Each issue focuses on a specific cardiovascular disease, pathological condition, or field of cardiovascular medicine.

Recently published Compendia topics

Compendium on Women and Cardiovascular Disease

Editor: Susan Cheng

Compendium on Stroke and Neurocognitive Impairment

Editors: Costantino Iadecola, Marc Fisher, and Ralph Sacco

Compendium on Basic Models of Cardiovascular Disease

Editor: Anthony Rosenzweig

Spotlight: Methodological Rigor and Reproducibility

Circulation Research is a leader in demanding adherence to methods that are rigorous, transparent, and reproducible. All articles are thoroughly vetted for rigor and transparency by the reviewers and the handling editors, as well as technical editors, specifically tasked with ensuring compliance to guidelines and reporting requirements.

FIT/Early Career Resources

Circulation Research has dedicated resources for trainees and young investigators. Highlights are provided below. Check out all of the resources on the journal's website under the "Features" menu.



MEET YOUR PEERS

"Meet the First Author"

Because many first authors are students or post-doctoral fellows, the journal highlights the first authors of original research articles in its "Meet the First Author" feature.



SAVE TIME

Podcast: *Discover CircRes*

Each monthly podcast delivers a quick update on key highlights from the Journal's current issue and expert insights into new research that will have an impact in the field.



The Journal Community and Network

AHA Council on Basic Cardiovascular Sciences (BCVS)

Established in 1999, the council promotes basic science research and strives to improve basic cardiovascular regulation through new therapies and insights in cardiovascular disease, as well as research in fields like microRNAs, cardiac gene and cell therapy, cardiac development, tissue engineering, and iPS cells through its annual meeting.

professional.heart.org/bcvscouncil

Hypertension



Featured Articles

Renal perfusion and inflammation

Sodium, Cox and intrarenal renin angiotensin aldosterone system

AT1aR activation in renal dendritic cells protect against sodium retention and blood pressure elevation

Vertebral artery hypoplasia and prediction of hypertension in young adults

Omeprazole does not improve biomarkers of preeclampsia



Long term blood pressure variability, renal dysfunction and hypertension



Volume 75, Number 6, June 2022

ISSN 0194-511X
www.ahajournals.org/journal/hyp



Hypertension

The No.1 journal serving the international hypertension community through a balance of basic science and clinical research to improve patient care

Editor-in-Chief

Professor Rhian M. Touyz, MBBCh, PhD, FRCP, FRSE, FMedSci

Editorial Office

hypertension@heart.org

Instructions for Authors

AHAjournals.org/hyp/author-instructions

Manuscript Submission

hype-submit.aha-journals.org

Journal Impact Factor: 9.897*

AHAjournals.org/metrics

Open Access Option

AHAjournals.org/open-access-information

Frequency: Monthly

Launch Year: 1979

AHAjournals.org/journal/hyp

Submission to First Decision:

<2 weeks.§

Acceptance to Online Publication:

4.5 weeks.§

Acceptance to Print Publication:

8.5 weeks.§

Far-Reaching Impact



>2.5 Billion
MEDIA IMPRESSIONS†



>5.3 Million
ARTICLE VIEWS‡



>47,090
TOTAL CITES*



>3.6 Million
ONLINE VISITS‡



>7,630
TWITTER FOLLOWERS§

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

†From July 1, 2021, to June 30, 2022. Source: American Heart Association.

‡Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

§As of July 2022.

Best of Hypertension Awards

Categories include: Clinical Science, Basic Science, and Population Science. Winners receive a plaque and recognition at the AHA Hypertension Scientific Sessions. Recent featured papers include:



Effects of ARBs and ACE Inhibitors on COVID-19
Guang Yang, et al



Discrimination and Hypertension Risk
Allana T. Forde, et al

View all award-winning papers at AHAjournals.org/hyp/award

FIT/Early Career Resources



EDUCATIONAL CASES

Hypertension Clinical-Pathological Cases

Clinical cases, presented during *Hypertension* Clinical-Pathological Conferences hosted at international meetings are available online.

FEATURED CASES INCLUDE:

- Rare Disease Leading to Hypertension
- Borderline and Hypertension
- Hypertension With Negative Metaiodobenzylguanidine Scintigraphy
- CONNEd in Pregnancy

View new and archived cases on the journal's website. Select "Clinical-Pathological Conferences" from the "Features" menu.



JOIN THE CONVERSATION

Live Author Twitter Chats

Join our Social Media Editors in regular Live Author Chats on Twitter to allow for a lively discussion of currently published research.

Follow [@HyperAHA](https://twitter.com/HyperAHA) and [#HYPHIP](https://twitter.com/HYPHIP) to join the conversation.



The Journal Community and Network
AHA Council on Hypertension

The council's mission is to foster excellence in hypertension research and education. The council hosts the annual Hypertension Scientific Sessions, recognizes and awards contributions made each year to advancing the field, and offers an Advisory and Mentoring Program (CHAMP) to support young professionals in the scientific community.

professional.heart.org/hypertensioncouncil

Stroke



CLINICAL TRIALS

Early Reperfusion in LVO
Antihypertensive Treatments and Stroke Outcomes
VMI Expansion, Associated Factors, and Outcomes
SBP Trajectories in Cerebral Hemorrhage

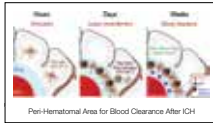
CLINICAL AND POPULATION SCIENCES

Endovascular Treatment: Progress Over 3.5 Years
Oral Anticoagulation in Trial Patients With AF
Stroke and Depressed Ejection Fraction
CVT in Heparin-Induced Thrombocytopenia
Neurophysiological Deficits After Isolated Thrombotic Stroke
Intralesional Salvage as a Benefit of Reperfusion
Coping Style and Poststroke PTSD

Remnant Cholesterol Variability and Stroke
Editorial: Remnants of Risk: The Importance of Variability
Clinical and Neuroimaging Markers Among CAA
Childhood Growth and Adult Cerebrovascular Disease
Extremely Mild Phenotype in CADASIL Pedigrees
Autoregulation, Outcomes, and SD
Association of Stroke Subtype With HT
Prophylactic Therapies for Morbidity and Mortality After aSAH
Longitudinal Progression of MRI Markers in D-CAA
Hemodynamic Imaging of Ischemic Stroke With MPF-ASL
Natural Blood Clearance After ICH
Editorial: Hematoma Clearance in the Human Brain
Network Resilience After Stroke
Editorial: Resilience to a Second Stroke
NIHSS Conducted by Paramedics in the Field

BASIC AND TRANSLATIONAL SCIENCES

Vitamin D Promotes ICH Recovery



Pen-Hematomal Area for Blood Clearance After ICH

BRIEF REPORTS

Fragility Analysis of <3-Hour IV Alteplase
ECU After aSAH in Young Patients With Migraine

ADVANCES IN STROKE

Advances in Stroke Policy
Future of Emerging Stroke Therapies

TOPICAL REVIEWS

Thrombolysis Before Endovascular Thrombectomy
Stroke Family Caregiver and Dyad Interventions
Mobile Stroke Units Review
RNA Epigenetics as Treatment for Ischemic CVD



ISSN 0039-2499
www.ahajournals.org/journal/str

Stroke

Representing the best clinical and basic investigation of all aspects of cerebral circulation and its diseases for more than 50 years

Editor-in-Chief

Ralph L. Sacco, MD, MS, FAHA

Editorial Office

stroke@strokeahajournal.org

Instructions for Authors

AHAjournals.org/str/
[author-instructions](#)

Manuscript Submission

stroke-submit.aha-journals.org

Journal Impact Factor: 10.170*

AHAjournals.org/metrics

Open Access Option

[AHAjournals.org/](http://AHAjournals.org/open-access-information)
[open-access-information](#)

Frequency: Monthly

Launch Year: 1970

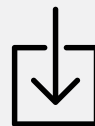
AHAjournals.org/journal/str

#1 stroke journal in the world*

Far-Reaching Impact



>1.7 Billion
MEDIA IMPRESSIONS[†]



>8.1 Million
ARTICLE VIEWS[‡]



>86,000
TOTAL CITES*



>4.6 Million
ONLINE VISITS[‡]



>26,400
TWITTER FOLLOWERS[§]

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

†From July 1, 2021, to June 30, 2022. Source: American Heart Association.

‡Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

§As of July 2022.



Annual Progress and Innovation Award

Stroke is dedicated to publishing highly innovated studies that can propel the field of cerebrovascular disease forward. Each year the editorial team nominates a few top manuscripts for consideration of the annual progress and innovation awards presented at the time of the AHA/ASA International Stroke Conference based on impact, citations, downloads, media impressions, Altmetric, and other measures of developing new paths forward.

View all award-winning papers at AHAjournals.org/str/progress-and-innovation-award-recipient

FIT/Early Career Resources



ACCESS DEDICATED CONTENT

InterSECT | International Stroke Early Career & Training

In each issue find articles and international perspectives for stroke clinicians and scientists early in their careers. Recent articles include: Securing a Training Position as an Interventional Neurologist; Paid Parental Leave; Transitioning From Mentee to Mentor. AHAjournals.org/str/intersect



GET CLINICAL DIRECTION

Illustrative Teaching Cases

These Illustrative Teaching Case are narratives that are aimed at illustrating teaching points for stroke trainees and clinicians and separate from the new Stroke Images article type that highlight a specific novel image finding and can include clinical or laboratory images. Look for these cases in past and upcoming issues. AHAjournals.org/journal/str



SAVE TIME

Graphic Abstract

More widely disseminate the results and conclusions of our articles with visual overviews of basic science articles included in every issue. AHAjournals.org/journal/str



DIVE DEEPER

Blogging Stroke

When the article ends, the conversation begins. Follow *Stroke's* blog, "Blogging Stroke," for highlights of high-impact studies, article summaries, interviews with authors, and the latest happenings in the stroke field through coverage of conferences. www.journals.heart.org/bloggingstroke



The Journal Community and Network

AHA Stroke Council

The council is uniquely dedicated to advancing the science of stroke prevention, treatment, and recovery through research and education. The council develops scientifically based publications, hosts the annual International Stroke Conference, and provides professional education and training programs to support the AHA's work in translating stroke-related science into effective initiatives and products for the public, healthcare professionals, healthcare facilities, and policymakers.

professional.heart.org/strokecouncil



JAHA

Journal of the American Heart Association

Providing clinicians, researchers, and students free and rapid access to the latest cardiovascular and cerebrovascular research and reviews

Editor-in-Chief

Barry London, MD, PhD, FAHA

Editorial Office

jaha@journalaha.org

Instructions for Authors

AHAjournals.org/jaha/author-instructions

Manuscript Submission

jaha-submit.aha-journals.org

Journal Impact Factor: 6.106*

AHAjournals.org/metrics

Fully Open Access

AHAjournals.org/jaha/openaccess

Frequency: Semimonthly,
24 issues per year

Launch Year: 2012

AHAjournals.org/journal/jaha

Ranks in the top 30% of 143 journals in the Cardiac and Cardiovascular Systems category*

Far-Reaching Impact



>12.4 Billion
MEDIA IMPRESSIONS[†]



>4.8 Million
ARTICLE VIEWS[‡]



>35,300
TOTAL CITES*



>3.4 Million
ONLINE VISITS[‡]



>22,900
TWITTER FOLLOWERS[§]

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

[†]From July 1, 2021, to June 30, 2022. Source: American Heart Association.

[‡]Metrics represent data collected by Atypon, Wiley, and Wolters Kluwer in 2021.

[§]As of July 2022.

Attending a Conference?

Join our Meeting Reporters and live-tweet for *JAHA—Journal of the American Heart Association*. As a meeting reporter, you'll help facilitate rapid, real-time scientific discussion about new findings, potentially practice-changing information, and important news to our international community of followers.

For more information, send a direct message to: [@JAHA_AHA](#) on Twitter, or email jaha@journalaha.org [#JAHAMeetingReport](#).

Types of Articles Considered



Original Research, Brief Communications, and Research Letters

JAHA considers full-length Original Research Articles, Brief Communications, and Research Letters.



Contemporary Reviews

Focus on topics of contemporary interest to the clinician. Overviews of natural history, diagnostic strategies, and treatment approaches are included in this series.



Basic Science for Clinicians

Cutting-edge reviews of the scientific basis of cardiovascular disease mechanisms and treatments. Emphasis placed on the practical application—or translation—of a contemporary understanding of basic mechanisms of disease and treatment to clinical practice.



Mini-Reviews

Focused reviews of an important areas covered in a relatively succinct format.



Viewpoints

Scientifically grounded expressions of critical opinions and discussions on controversial topics.

Top Reasons to Submit to *JAHA*

A High Standard of Rigorous Peer Review

The journal is editorially independent with its own Editor-in-Chief and Editorial Board who lead journal strategy and make publication decisions on all submissions.

Widest Possible Dissemination

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The Journal Community and Network

AHA Scientific Councils

JAHA—Journal of the American Heart Association represents all 16 AHA scientific councils. The purpose of the AHA scientific councils is to help promote excellence in cardiology and neurology, advance the science in these areas, and foster professional development and education. Through council-sponsored symposia, panels, and scientific conferences, members can access new developments in their fields and interpret and promote cardiovascular and cerebrovascular science to professional and lay audiences.

professional.heart.org/councils

Circulation: Arrhythmia and Electrophysiology



Circulation: Arrhythmia and Electrophysiology

Your source for high-quality, clinically relevant articles focusing on advances in the pathophysiology, diagnosis, and treatment of cardiac arrhythmias

ORIGINAL ARTICLES

Electrocardiographic Findings, Arrhythmias, and Left Ventricular Involvement in Familial ST-Depression Syndrome

GENESIS: Gene-Specific Machine Learning Models for Variants of Uncertain Significance Found in Catecholaminergic Polymorphic Ventricular Tachycardia and Long QT Syndrome-Associated Genes

90 vs 50-Watt Radiofrequency Applications for Pulmonary Vein Isolation: Experimental and Clinical Findings

RESEARCH LETTERS

High-Frequency, Low-Tidal-Volume Mechanical Ventilation Safety Improves Catheter Stability and Procedural Efficiency During Radiofrequency Ablation of Atrial Fibrillation

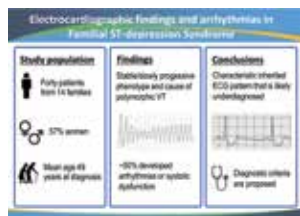
New-Onset Atrial Fibrillation in Left Bundle Branch Area Pacing Compared With Right Ventricular Pacing

Trends and Outcomes of Catheter Ablation of Ventricular Tachycardia in Patients With Ischemic and Nonischemic Cardiomyopathy

Feasibility of a Randomized Clinical Trial of Cardiac Resynchronization Therapy With or Without an Implantable Defibrillator in Older Patients

REVIEW

P Wave Parameters and Indices: A Critical Appraisal of Clinical Utility, Challenges, and Future Research—A Consensus Document Endorsed by the International Society of Electrocardiology and the International Society for Holter and Noninvasive Electrocardiology



Volume 15, Number 4, April 2022

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Editor-in-Chief

Paul J. Wang, MD, FAHA

Editorial Office

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Instructions for Authors

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Manuscript Submission

circep-submit.aha-journals.org

Journal Impact Factor: 7.718*

AHAjournals.org/metrics

Open Access Option

AHAjournals.org/open-access-information

Frequency: Monthly

Launch Year: 2008

AHAjournals.org/journal/circep

Ranks in the top 20% of 143 journals in the Cardiac and Cardiovascular Systems category*

Far-Reaching Impact



>34 Million
MEDIA IMPRESSIONS[†]



>1.3 Million
ARTICLE VIEWS[‡]



>9,430
TOTAL CITES*



>873,000
ONLINE VISITS[‡]



>5,610
TWITTER FOLLOWERS[§]

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

[†]From July 1, 2021, to June 30, 2022. Source: American Heart Association.

[‡]Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

[§]As of July 2022.



Webinar Series

Available Live and OnDemand

There are 4 advisory panels that organize and host each Webinar: Atrial Arrhythmia (AF) | Ventricular tachycardia/Sickle cell disease (VT/SCD) | Cardiovascular implantable electronic device (CIED) | Structural Inequality and Racism

The webinars are live, but they are also recorded and appear on AHA Lifelong Learning following the live event. Recent webinars include:

- Physiological Pacing: His Bundle and Left Bundle Branch Pacing (CEID)
- Predicting Recurrence of AF by Machine Learning on Atrial CT Scans (AF)
- Assessing (and Reassessing) ICD Benefit and Risk (CEID)
- Optimizing Performance: Lead Survival in Athletes and Remote Management (CEID)
- The Value of AF Registries for Performance: Improvement and Research (AF)
- Cardiac Neuromodulation in HF (CEID)

For more information, visit learn.heart.org

Special Features



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The AHA Community and Network

AHA Scientific Councils

AHA's Professional Membership is made up of a robust group of cardiovascular professionals who participate in discovery and dissemination of science. Within the membership group, there are 16 different scientific councils. AHA Professional Members affiliate and interact with one or more of these councils that match their specialty or classification, depending on the membership level selected.

professional.heart.org/councils

Circulation: Cardiovascular Imaging

EDITOR'S NOTE

In This Issue of the Journal

ORIGINAL ARTICLES

Left Atrial Reservoir Strain-Based Left Ventricular Diastolic Function Grading and Incident Heart Failure in Hypertrophic Cardiomyopathy

Editorial

Left Atrial Reservoir Strain: A Savior to Diastolic Function Assessment in Hypertrophic Cardiomyopathy?

Incremental Detection of Severe Congenital Heart Disease by Fetal Echocardiography Following a Normal Second Trimester Ultrasound Scan in Québec, Canada

Editorial

What Does Fetal Echocardiography Add Beyond the Anomaly Scan?

Prognostic Relationship Between Coronary Artery Calcium Score, Perfusion Defects, and Myocardial Blood Flow Reserve in Patients With Suspected Coronary Artery Disease

Editorial

Calculated Coronary Plaque and Flow Reserve: Nonredundant and Complementary Markers of Cardiovascular Prognosis

Synthetic Extracellular Volume in Cardiac Magnetic Resonance Without Blood Sampling: a Reliable Tool to Replace Conventional Extracellular Volume

RESEARCH LETTER

Cardiac Magnetic Resonance Imaging Noninvasively Detects Rejection in Pediatric Heart Transplant Recipients

CARDIOVASCULAR IMAGES

Three-Dimensional Computed Tomography Reconstruction for Diagnosis of Left Ventricular Assist Device Outflow Graft Twist

Trileaflet Mitral Valve in the Setting of Hypertrophic Cardiomyopathy: A Curious Rarity With a Possible Association

Unmasking a Rare Disease: A Breathtaking Coronary Angiogram

Computer Simulation Model May Prevent Thoracic Stent-Graft Collapse Complication



Volume 15, Number 4, April 2022

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Circulation: Cardiovascular Imaging

Essential coverage of all aspects of cardiovascular imaging to improve diagnostic accuracy and advance clinical practice

Editor-in-Chief

Robert J. Gropler, MD

Editorial Office

circ@circulationjournal.org

Instructions for Authors

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Manuscript Submission

circimaging-submit.aha-journals.org

Journal Impact Factor: 8.589*

AHAjournals.org/metrics

Open Access Option

AHAjournals.org/open-access-information

Frequency: Monthly

Launch Year: 2008

AHAjournals.org/journal/circimaging

Ranks in the top 12 of 136 journals in Radiology, Nuclear Medicine, and Medical Imaging*

Far-Reaching Impact



>181 Million
MEDIA IMPRESSIONS[†]



>821,000
ARTICLE VIEWS[‡]



>8,700
TOTAL CITES*



>535,000
ONLINE VISITS[‡]



>2,880
TWITTER FOLLOWERS[§]

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

†From July 1, 2021, to June 30, 2022. Source: American Heart Association.

‡Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

§As of July 2022.

Save Time With Teaching Files

Put cases into context for your students with “Teaching Files,” from *Circulation: Cardiovascular Imaging*. Cardiovascular images from published articles are available for classroom use to provide physicians, fellows, and residents a way to practice interpreting radiological images from a variety of different, real-life cases.

Simply select “Teaching Files” under “Resources and Education” on the journal’s website menu at AHAjournals.org/journal/circimaging.

FIT/Early Career Resources



JOIN THE CONVERSATION

Twitter Chats

The journal holds periodic virtual journal clubs on Twitter to allow for live discussion about published cases. Follow @Circlmaging and the hashtag #CirclmgJC to participate.



LEARN THE PROCESS

Assistant Reviewer Program

Launched in 2020, the journal’s peer reviewer training program develops cardiovascular imaging science peer-review skills among a cohort of early-career and fellow-in-training (FIT) investigators through participation in a 2-year mentored professional development program. Participants are nominated by the journal’s Editorial Board Members.



GET CLINICAL GUIDANCE

Advances in Cardiovascular Imaging Review Series

This series showcases clinically relevant, disease-based perspectives on current applications of imaging. It also features novel imaging technologies and their potential clinical role, reviews on methodological and analytical issues affecting imaging-based research, and more.



EARN CONTINUING EDUCATION CREDIT

Reader CME

Each issue contains an article eligible for CME to help further your professional goals.



The Journal Community and Network

AHA Council on Cardiovascular Radiology and Intervention (CVRI)

The council provides outstanding research, education, outreach, and mentorship in the fields of cardiovascular imaging and image-guided intervention. Offering leadership to the American Heart Association (AHA) and American Stroke Association, the council seeks to reduce death and disability from cardiovascular, peripheral vascular, and cerebrovascular diseases, using diagnostic and functional imaging and imaging-directed interventions.

The council also sponsors an early career investigator award and travel grants to acknowledge the outstanding work and research being performed by AHA members.

professional.heart.org/cvricouncil

Circulation: Cardiovascular Interventions



Circulation: Cardiovascular Interventions

Leading coronary artery, structural heart, and vascular disease science that advances practice and improves patient outcomes

ORIGINAL ARTICLES

Cardiac Catheterization

Drug-Coated Balloon for Small Coronary Artery Disease in Patients With and Without High-Bleeding Risk in the BASKET-SMALL 2 Trial

Short-Term Postoperative Use of Rivaroxaban to Prevent Radial Artery Occlusion After Transradial Coronary Procedure: The RESTORE Randomized Trial

Coronary Artery Disease
Outcomes With Intermediate Left Main Disease: Analysis From the ISCHEMIA Trial

Editorial
Significance of Insignificant Left Main Disease

Coronary Interventions
Ticagrelor With or Without Aspirin in Chinese Patients Undergoing Percutaneous Coronary Intervention: A TWILIGHT China Substudy

Change in Left Ventricular Ejection Fraction With Coronary Artery Revascularization and Subsequent Risk for Adverse Cardiovascular Outcomes

Editorial
Ejection Fraction as the Key to Improvement in Ischemic Cardiomyopathy Outcomes

Coronary Physiologic Assessment and Imaging
Impact of Ticagrelor Versus Clopidogrel on Coronary Microvascular Function After Non-ST-Segment-Elevation Acute Coronary Syndrome

RESEARCH LETTERS

Characterization of Cerebral Embolic Capture Using the SENTINEL Device During Transcatheter Aortic Valve Implantation in Low to Intermediate-Risk Patients: The SENTINEL-LIR Study

Improved Left Atrial Appendage Closure With the New-Generation WATCHMAN FLX by Cardiac Computed Tomography Angiography at 45 Days Postimplant



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Sunil V. Rao, MD

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circ@circulationjournal.org

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circinterventions-submit.aha-journals.org

Journal Impact Factor: 7.514*
AHAjournals.org/metrics

Open Access Option
AHAjournals.org/open-access-information

Frequency: Monthly

Launch Year: 2008

AHAjournals.org/journal/circinterventions

Offers expedited publication for original work that communicates novel, influential, and clinically impactful research.†

Far-Reaching Impact



>85 Million
MEDIA IMPRESSIONS†



>815,000
ARTICLE VIEWS‡



7,400
TOTAL CITES*



>506,000
ONLINE VISITS‡



>6,480
TWITTER FOLLOWERS§

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

†From July 1, 2020, to June 30, 2021. Source: American Heart Association.

‡Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

§As of July 2022.

Contemporary Reviews in Interventional Cardiology

From historical context and recent advances in the mechanisms of disease, diagnosis, and treatment to basic and translational pathophysiological concepts and future directions, you'll get a deep understanding of the most important topics in coronary, noncoronary, and structural heart interventions and minimally invasive surgical interventions with our cutting-edge reviews.

Simply select "Contemporary Reviews in Cardiology" under "Features" on the journal's website menu at AHAjournals.org/journal/circinterventions.

FIT/Early Career Resources



VISUALIZE THE DATA

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Circulation: Cardiovascular Quality and Outcomes



Circulation: Cardiovascular Quality and Outcomes

A catalyst for outstanding clinical and epidemiological science and policy information that enhances cardiovascular health and healthcare

EDITOR'S NOTE

Guidance in the Ongoing Storm

CARDIOVASCULAR PERSPECTIVE

Reimagining Evidence Generation for Heart Failure and the Role of Integrated Health Care Systems

ORIGINAL ARTICLES

Generalizability of Cardiovascular Disease Clinical Prediction Models: 158 Independent External Validations of 104 Unique Models

Editorial
Do Prediction Models Do More Harm Than Good?

Reducing Cardiovascular Risk in the Medicare Million Hearts Risk Reduction Model: Insights From the National Cardiovascular Data Registry PINNACLE Registry

One-Year Outcomes and Factors Associated With Mortality Following Acute Myocardial Infarction in Northern Tanzania

Editorial
Fixing the Broken Care Pathway for Acute Myocardial Infarction Care in Sub-Saharan Africa

Evidence-Based Process Performance Measures and Clinical Outcomes in Patients With Incident Heart Failure With Reduced Ejection Fraction: A Danish Nationwide Cohort Study

CARE INNOVATIONS

Building a Cardiac Educational Achievement Partnership Program: Examination of Implementation

PATIENT VIEWPOINT

From Patient to Physician: A Journey of Resilience

CLINICAL COMMENTARY

Clinical Commentary on From Patient to Physician: a Journey of Resilience

SPECIAL REPORT

2022 Interim Guidance to Health Care Providers for Basic and Advanced Cardiac Life Support in Adults, Children, and Neonates With Suspected or Confirmed COVID-19: From the Emergency Cardiovascular Care Committee and Get With The Guidelines-Resuscitation Adult and Pediatric Task Forces of the American Heart Association in Collaboration With the American Academy of Pediatrics, American Association for Respiratory Care, the Society of Critical Care Anesthesiologists, and American Society of Anesthesiologists



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Frequency: Monthly

Launch Year: 2008

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>767 Million
MEDIA IMPRESSIONS[†]



>933,000
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>7,350
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>675,000
ONLINE VISITS[‡]



>13,500
TWITTER FOLLOWERS[§]

*2021 Journal Citation Reports (Clarivate Analytics, 2022).

†From July 1, 2021, to June 30, 2022. Source: American Heart Association.

‡Metrics represent data collected by Atypon and Wolters Kluwer in 2021.

§As of July 2022.

Disparities Research Guidelines

New guidance is available for authors submitting work focused on reporting health differences by race and/or ethnicity. These instructions aim to encourage consistent framing, terminology, and methods aligned with established best practices.

Go to [AHAjournals.org/disparities-research-guidelines](https://www.ahajournals.org/disparities-research-guidelines) to read the guidelines and download a checklist

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The council proudly sponsors an award and travel grant to its specialty conference and greatly values the development of young clinical investigators, offering a limited number of seed grants for meritorious research projects based on the data gathered from GWTG.

professional.heart.org/qcorcouncil

Circulation: Genomic and Precision Medicine

ORIGINAL ARTICLES

How Communicating Polygenic and Clinical Risk for Atherosclerotic Cardiovascular Disease Impacts Health Behavior: an Observational Follow-up Study

Causative Variants for Inherited Cardiac Conditions in a Southeast Asian Population Cohort

Editorial
The Need for Inclusive Genomic Research

Genome-Wide De Novo Variants in Congenital Heart Disease Are Not Associated With Maternal Diabetes or Obesity

Common Polymorphism That Protects From Cardiovascular Disease Increases Fibronectin Processing and Secretion

CERS1 Risk Alleles in Familial Bicuspid Aortic Valve and Hypoplastic Left Heart Syndrome

Coronary Artery Disease Risk of Familial Hypercholesterolemia Genetic Variants Independent of Clinically Observed Longitudinal Cholesterol Exposure

Genome-Wide Characterization of a Highly Penetrant Form of Hyperlipoproteinemia Associated With Genetically Elevated Cardiovascular Risk

Editorial
Value of Genetic Testing for Lipoprotein(a) Variants

RESEARCH LETTER

Pregnancy Outcomes in Females With Dilated Cardiomyopathy—Associated Rare Genetic Variants

SPECIAL REPORT
Monomorphic and Polymorphic Ventricular Arrhythmias in Heterozygous Calsequestrin-2 Mutation Carriers

CLINICAL LETTERS

Ultra-Rapid Nanopore Whole Genome Genetic Diagnosis of Dilated Cardiomyopathy in an Adolescent With Cardiogenic Shock

End Stage Mitochondrial Cardiomyopathy and Heart Transplantation Due to Biallelic Pathogenic *CTDP* Variants



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Journal Impact Factor: 7.465*

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MEDIA IMPRESSIONS[†]



>403,000
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ONLINE VISITS[‡]



>1,760
TWITTER FOLLOWERS[§]

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New and Upcoming Features

To propel the journal, new features will be introduced, including: State-of-the-art contemporary reviews, increased prominence of guideline documents, clinical case reports, graphic abstracts, and a greater interaction on social media, including Twitter-based “tweetorials” and journal clubs.

FIT/Early Career Resources



SPECIAL SECTIONS

Clinical Letters

Compelling yet concise descriptions of clinical genomics cases that convey unique insights are presented in this special section of the journal. Each case includes a concise description of the patient’s presentation, genomics-based evaluation, and broader implications.



Perspectives

Articles in this special section are evidence-based essays focusing on and discussing timely topics in our field. This section also includes personal perspectives from individuals with career insights of interest to our community. Look for articles from these special sections in upcoming and past issues.



FREE VIDEO LEARNING

Bootcamp Resources

Featuring >16 video-learning modules, the journal’s Bootcamp Resources help build an understanding of basic concept and the potential application of genetics and genomics for cardiovascular and stroke clinicians.

Access the videos on demand on the journal’s website. Select “Bootcamp Resources” under “Features.”



The Journal Community and Network

AHA Council on Genomic and Precision Medicine (GPM)

The council aims to advance the discovery and translation of biological insights gained from genetics and omics technologies to improve cardiovascular and brain health. Expertise of the council’s membership spans across genetics, genomics, epigenetics, transcriptomics, metabolomics, proteomics, microbiome, bioinformatics, computational science, population health, clinical genetics and genomic medicine, with the goal of more precise risk prediction, treatment, and prevention for patients and the population.

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ORIGINAL ARTICLES

Outcomes With Phosphodiesterase-5 Inhibitor Use After Left Ventricular Assist Device: An STS-INTERMACS Analysis

Editorial

Early Use of Phosphodiesterase Inhibitors After Left Ventricular Assist Device: Is It Time to Rethink?

The Value of Passive Leg Raise During Right Heart Catheterization in Diagnosing Heart Failure With Preserved Ejection Fraction

Editorial

Passive Leg Raise: A Leg Up in the Diagnosis of Heart Failure With Preserved Ejection Fraction?

Insights Into Myocardial Oxygenation and Cardiovascular Magnetic Resonance Tissue Biomarkers in Heart Failure With Preserved Ejection Fraction

The RAISE Trial: A Novel Device and First-in-Man Trial

Impact of Pretransplant Malignancy on Heart Transplantation Outcomes: Contemporary United Network for Organ Sharing Analysis Amidst Evolving Cancer Therapies

Blood Pressure Drops During Hospitalization for Acute Heart Failure Treated With Serelaxin: A Patient-Level Analysis of 4 Randomized Controlled Trials

MIR-150 Attenuates Maladaptive Cardiac Remodeling Mediated by Long Noncoding RNA MIAT and Directly Represses Proliferotic Hoxa

ADVANCES IN HEART FAILURE, MECHANICAL CIRCULATORY SUPPORT AND TRANSPLANT

Heart Failure Spending Function: An Investment Framework for Sequencing and Intensification of Guideline-Directed Medical Therapies

RESEARCH LETTER

Access to Heart Failure Medicines in Low- and Middle-Income Countries: An Analysis of Essential Medicines Lists, Availability, Price, and Affordability

ON MY MIND

Quantification of Vasopressor Medications and the "Pharmacomechanical Continuum" in Cardiogenic Shock

IMAGES AND CASE REPORTS IN HEART FAILURE

Transcatheter Mitral Intervention Relieves Dynamic Outflow Obstruction and Reduces Cardiac Workload in Hypertrophic Cardiomyopathy

Biopsy-Proven Giant Cell Myocarditis Following the COVID-19 Vaccine

CORRESPONDENCE

Letter by Aral and Hackmann Regarding Article, "Liberation From Venovenous Extracorporeal Membrane Oxygenation: A Review"

Response by Brahmhatt et al to Letter Regarding Article, "Liberation From Venovenous Extracorporeal Membrane Oxygenation: A Review"



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Stroke: Vascular and Interventional Neurology

An official publication of the American Heart Association and the Society of Vascular and Interventional Neurology



Stroke: Vascular and Interventional Neurology

A new, official, Open Access journal of the American Heart Association and the Society of Vascular and Interventional Neurology

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Ashutosh P. Jadhav, MD, PhD

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Fully Open Access

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Frequency: Bimonthly

Launch Year: 2021

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Aims & Scope

Stroke: Vascular and Interventional Neurology (S:VIN) is an open access journal focused on reporting clinical, translational, and basic sciences research on interventional, endovascular, medical, and surgical management of stroke and vascular disease of the brain, spinal cord, and head and neck.

This includes research on minimally invasive and innovative approaches to providing clinical, neuroendovascular, and neurosurgical care from imaging and clinical management teams. Imaging, video illustrations, case reports, innovative technique, angiographic anatomy, clinicopathological correlation, medical devices, technical advances, and reviews are also welcomed.

ACCESS: Official Podcast of Stroke: Vascular and Interventional Neurology

The American Heart Association and Society of Vascular and Interventional Neurology bring you *ACCESS: Official Podcast of Stroke: Vascular and Interventional Neurology*. *ACCESS* is a bimonthly audio podcast that summarizes the latest advances in vascular and interventional neurology, featuring interviews with the leading minds and investigators in cerebrovascular disease. For more information, follow us on Twitter @SVINJournal.

Types of Articles Considered



Original Research

Original Research articles are manuscripts that encompass the broad range of innovative and impactful clinical and population science or basic and translational science in the fields of interventional, endovascular, medical, and surgical management of stroke and vascular disease of the brain, spinal cord, and head and neck. These manuscripts should present comprehensive research with robust methodology and results sections.



Research Letters

Original research letters of a focused nature.



Case Series

Compelling descriptions of a clinical case that convey a unique insight.



Imaging Case

Clinical images that illustrate novel or unusual neurovascular diagnostic findings, feature advances in neurointerventional procedures, highlight a procedural complication, or provide mechanistic insights into neurointerventional management will be considered for publication.



Reviews

Articles in this category present a review of advances related to important research and clinical topics relevant to the scope of the journal.

Top Reasons to Submit to S:VIN

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Stroke: Vascular and Interventional Neurology accepts creative, original, visual art that may be related to endovascular therapy, cerebrovascular disease, or the care of patients with cerebrovascular disease. One piece of original artwork will be considered for publication in each issue of S:VIN, and it will be published separately as part of the digital cover for that issue. Submitted artwork does not need to be related to content published in that issue; however, artwork related to issue content will be prioritized for that issue.



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