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DESCRIPTION

*Kidney International* (KI) is the official journal of the International Society of Nephrology. Under the editorial leadership of Dr. Pierre Ronco (Paris, France), *KI* is one of the most cited journals in nephrology and widely regarded as the world’s premier journal on the development and consequences of kidney disease.

*KI* offers features with premier benefits for both readers and authors. Here you will find some of the most highly cited original articles in nephrology, sharply focused reviews, latest imaging techniques, controversial discussions and much more.

*KI* is devoted to kidney research. It aims to inform the researcher, the clinical investigator, and the practicing nephrologist on all aspects of kidney research. These include:

The latest *clinical studies* on emerging developments in nephrology. The highest level of *original research studies* in clinical and basic kidney research. *Brief Reports* of exceptional findings that induce a change in basic concept or in standard of care. *Nephrology Digest* comments on and puts into perspective several areas of new developments in basic and clinical research in nephrology at large, as reported in the recent literature and at scientific meetings. *Editorials* that highlight important issues in international nephrology. *Nephrology sans Frontieres* are occasional short articles that discuss matters of local interest to nephrologists around the world, but which we feel need to be known by nephrologists world-wide. *In-depth reviews* about major issues in kidney research. *Controversies* on hot topics or debated issues written by two opposing authorities with a summary by the editors. *Nephrology Images* which are presentations of interesting images in kidney pathology, radiology chosen for their illustrative nature or simply for their esthetic qualities. *Policy Forum* that features issues of importance to the international renal community including the politics of funding, of organ transplantation, of adequacy of dialysis, of world-wide affordability of end stage patient care and many other topical issues. *Journal Club* are synopses that bring you the latest research highlights from across a wide spectrum of journals in fields relevant to renal research.

Your subscription to *Kidney International* also includes the companion journal, *Kidney International Supplements*.

IMPACT FACTOR

2018: 8.306 © Clarivate Analytics Journal Citation Reports 2019
ABSTRACTING AND INDEXING

PubMed/Medline
PubMed/Medline
Science Citation Index
Current Contents - Life Sciences and Clinical Medicine
Current Contents - Clinical Medicine
Web of Science
BIOSIS Citation Index
Chemical Abstracts
Embase
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GUIDE FOR AUTHORS

ABOUT THE JOURNAL

Use of inclusive language
Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Articles should make no assumptions about the beliefs or commitments of any reader, should contain nothing which might imply that one individual is superior to another on the grounds of race, sex, culture or any other characteristic, and should use inclusive language throughout. Authors should ensure that writing is free from bias, for instance by using 'he or she', 'his/her' instead of 'he' or 'his', and by making use of job titles that are free of stereotyping (e.g. 'chairperson' instead of 'chairman' and 'flight attendant' instead of 'stewardess').

Please add your Twitter Handle ("@+twitter user name") and ORCID (Open Researcher and Contributor ID) to your user account in manuscript central. If you don't have an ORCID, you can sign up for free at https://orcid.org/.

Frequency
Published monthly.

Impact factor
2018 Impact Factor: 8.306
5 of 80 journals in Urology & Nephrology
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ISSN
ISSN: 0085-2538
EISSN: 1523-1755

Abstracted/indexed in
Index Medicus/Medline, Science Citation Index, Current Contents/Life Sciences, Current Contents/Clinical Medicine, SciSearch, BIOSIS, Chemical Abstracts, EMBASE, Reference Update, CABS, Biological Abstracts, Global Health, Adonis, PASCAL, Scopus

Publication charges
(Do not apply to invited authors.)
Page charges cover a proportion of the costs of processing and producing the article for publication. After final layout for publication, each page of an article will incur a fixed charge of US$165 per page.

Scope
Kidney International devotes itself to renal research. It aims to inform the renal researcher and the practicing nephrologist on all aspects of renal research. These include the latest clinical studies on emerging developments in renal medicine and the highest level of original research studies in clinical and basic renal research. In each issue some of these articles will be highlighted by commentaries that aim to put these studies in the appropriate context. These will form a research tool for clinical and basic investigators. Nephrology Digest comments and puts in perspective several areas of new developments in basic and clinical research in nephrology at large, as reported in the recent literature and at scientific meetings. Editorials highlight important issues in international nephrology. Nephrology sans Frontières are occasional short articles that discuss matters of local interest to nephrologists around the world, but which we feel need to be known by nephrologists worldwide. In-depth reviews are about major issues in renal research and controversial discussions on renal therapeutics or diagnosis written by two opposing authorities. Nephrology Images are presentations of interesting images in renal pathology; radiology chosen for their illustrative nature or simply for their esthetic qualities; issues of importance to the international renal community, including the politics of funding, of organ transplantation, of adequacy of dialysis, of worldwide affordability of end-stage renal care, and many other topical issues. Journal Club is a synopses that brings you the latest research highlights from across a wide spectrum of journals in fields relevant to renal research.
**Reporting Guidelines**

*KI* requires authors to completely, accurately, and transparently report their findings. Authors submitting articles to *KI* should refer to the Enhancing the QUAlity and Transparency Of health Research (EQUATOR) Network website (http://www.equator-network.org/), which provides a central repository of reporting guidelines and other resources to assist authors.

Authors of the following study types are required to upload a copy of the corresponding checklist with their manuscript: CONSORT checklist and flow diagram for Randomized clinical trials STROBE checklist for Observational Studies (see modified STROBE Statement) PRISMA checklist and flow diagram for Systematic reviews and meta-analyses—interventional studies MOOSE checklist and flow diagram for Systematic reviews and meta-analyses—observational studies STARD checklist and flow diagram for Diagnostic accuracy studies COREQ for Qualitative research TRIPOD for Development and updating of predictive models CHEERS for Economic evaluation STARI statement and checklist for Implementation studies STREGA Checklist for studies that investigate Associations between genetic factors and clinical measurements or disease outcomes. These checklists help improve the quality and consistency of data reporting and assist reviewers in assessing the manuscript. Missing items or deviations should be explained by the authors.

*KI* encourages the use of PENELOPE for help with identification of the appropriate checklist for data reporting. This tool can be found at http://www.peneloperesearch.com/equatorwizard.

**Peer Review**

This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for *Kidney International*. Papers deemed suitable are then sent to at least two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. For more information on the types of peer review, please visit our peer-review site (https://www.elsevier.com/reviewers/peer-review).

**Editor Disclosures**

*Kidney International* follows the ICMJE Guidelines for Disclosures and Conflicts of Interest. Editors and editorial staff must not use information gained through working with manuscripts for private gain. Editor disclosure forms about potential conflicts of interests related to their own commitments are collected annually and kept on file in the editorial office. Authors and reviewers who require this information should contact the editorial office staff.

**PREPARATION OF MANUSCRIPTS**

The *American Medical Association Manual of Style* (10th edition) should be used as a style guideline.

Types of articles

**Review**

Word limit: Reviews should be between 3,000 and 5,000 words, and on average 4,000 words, including abstract but excluding references, tables, and figures. Abstract: 250 words maximum. References: 150 maximum. Figures/tables: 1–3 images or figures required. Disclosure statement required. Reviews are comprehensive analyses of specific topics in nephrology that are solicited by the Editors. Proposals for reviews should be submitted to the editorial office by email: pmorriss@wustl.edu. Authors should only send an outline of the proposed paper for initial consideration. Unsolicited reviews submitted directly to Manuscript Central will not be considered. All invited review articles will undergo peer review prior to decision, and there is no absolute guarantee of acceptance.

**Original Article**

Subcategories: Basic Research, Clinical Investigation. Word limit: 4,000 words (22,400 characters) maximum including spaces and abstract but excluding references, tables, and figures. Abstract: 250 words (1,500 characters) maximum including spaces. Results: Include headings about what is being tested in each individual experiment. References: no limit. Figures/tables: no limit. However, additional figures and tables may be considered as supplements for web-only publication. Disclosure statement required. Full-length reports of current research in either basic or clinical science. Data Sharing Statement—Large biological datasets Graphical Abstract required. See Graphical Abstract section for more details. Systematic Reviews: submit as an Original Article. Include PRISMA checklist and PRISMA flow diagram with submission.
Brief Report
The purpose of the Brief Report format is to publish concise but complete reports that present high-quality findings of exceptional interest, novelty, and broad significance for the readers of Kidney International.

A manuscript considered as a potential Brief Report by the Editors will be sent to referees with a request of rapid review. If the manuscript is deemed interesting but not of sufficiently transformative potential, authors may be asked to resubmit their revision as a regular article.

Brief Reports differ from regular articles in that they should be arranged in the following order: Title page, Abstract and keywords, Introduction, Results, Discussion (no headings necessary), Short Methods, Acknowledgments, References, Tables (each including a title and legend), and Figure legends. The abstract should be brief (3 sentences, no more than 100 words). The main text should be limited to 1,500 words (including the abstract but not the acknowledgments, references, tables, and figure legends). Brief Reports normally have no more than 2 display items (Figure and/or Table—uploaded as individual files), and 20 references. The study design, detailed methods, and/or supporting data should be included in Online Supplementary Material (each file uploaded separately).

Clinical Trials
Word limit: 4,000 words (22,400 characters) maximum including spaces and abstract but excluding references, tables, and figures. Abstract: 250 words (1,500 characters) maximum including spaces. Results: Include headings about what is being tested in each individual experiment. References: no limit. Figures/tables: no limit. However, additional figures and tables may be considered as supplements for web-only publication. Disclosure statement required. Data Sharing Statement—Large biological datasets
Kidney International follows the ICMJE’s data sharing statement policy for all clinical trials. To foster transparency, we require you to state the availability of your data in your manuscript. This may be a requirement of your funding body or institution. If your data are unavailable to access or unsuitable to post, you will need to indicate why, for example by stating that the research data are confidential. The statement will appear with your published article. For more information, visit the Data Statement page. Full-length reports of current research in either basic or clinical science. Please read the Special Notice Regarding Clinical Trials below.

Special notice regarding clinical trials
As defined by the International Committee of Medical Journal Editors (ICMJE), a clinical trial is any research project that prospectively assigns human subjects to intervention and comparison groups to study the cause-and-effect relationship between a medical intervention and a health outcome. A medical intervention is any intervention used to modify a health outcome and includes but is not limited to drugs, surgical procedures, devices, behavioral treatments, and process-of-care changes. A trial must have at least one prospectively assigned concurrent control or comparison group in order to trigger the requirement for registration. Nonrandomized trials are not exempt from the registration requirement if they meet the above criteria.

All clinical trials must be registered in a public registry prior to submission. The journal follows the trials registration policy of the ICMJE (http://www.icmje.org) and considers only trials that have been appropriately registered before submission, regardless of when the trial closed to enrollment. Acceptable registries must meet the following ICMJE requirements: be publicly available, searchable, and open to all prospective registrants; have a validation mechanism for registration data; and be managed by a not-for-profit organization.

Examples of registries that meet these criteria include: the registry sponsored by the United States National Library of Medicine (http://www.clinicaltrials.gov), the International Standard Randomized Controlled Trial Number Registry (http://www.controlled-trials.com), the Cochrane Renal Group Registry (http://www.cochrane-renal.org), and the European Clinical Trials Database (https://eudract.ema.europa.eu).

The trial registry number for eligible papers will be collected during the submission process.

Randomized Controlled Trials (RCTs) must adhere to the CONSORT statement (CONsolidated Standards Of Reporting Trials), and submissions must be accompanied by a completed CONSORT checklist (uploaded as a related manuscript file). Further information can be found at http://www.consort-statement.org.
Commentary (by invitation only)
Word limit: 1,500 words (8,400 characters) maximum including spaces and abstract but excluding references. Title: 115 characters maximum including spaces. Abstract: 75 words (420 characters) maximum. References: 9 maximum including the article discussed. Figures/tables: 1 figure required (will be redrawn). Commentaries discuss a paper published in a specific issue and should set the problems addressed by the paper in the wider context of the field. Disclosure statement required.

Technical Note
Word limit: 1,500 words (8,400 characters) maximum including abstract but excluding references, tables, and figures. Abstract: 250 words (1,500 characters) maximum including spaces. References: 20 maximum. Disclosure statement required. Examples of appropriate subject matter include descriptions of new laboratory or clinical methods, new apparatus, or critical modifications of established techniques. Organization of Technical Notes should be the same as for regular manuscripts.

Letter to the Editor
Word limit: 250 words (1,500 characters) maximum including spaces. Abstract: no abstract required for this manuscript type. References: 4 maximum. Figures/tables: up to 1. Letters to the Editor will be considered for publication, subject to editing. Letters must contain information critical to a certain area or must be confirmatory of data recently published in Kidney International. A Letter must reference the original source, and a Response to a Letter must reference the Letter in the first few paragraphs, as well as the original source. Letters can use an arbitrary title, but a Response must cite the title of the Letter: e.g., Response to [title of Letter]. All Letters must contain a title page including title, all authors' names and affiliations, and corresponding author contact information. Note that KI does not accept Letters to the Editor regarding Nephrology Digest articles.

Editorial (by invitation only)
Word Limit: 1,600 words (8,960 characters) maximum including spaces. Abstract: no abstract required for this manuscript type. Keywords: 3–6. References: 5 maximum. Proposals for Editorials may be submitted; authors should only send an outline of the proposed paper for initial consideration.

Nephrology Image
Word limit: title: 70 characters including spaces; text: 300 words (1,700 characters) including spaces. Figures: The equivalent of 2 single-panel figures maximum. Additional figures may be included as supplementary images that will appear online but not in print. References: none. Abstract: no abstract required for this manuscript type. Illustrative images that are unique or highly illustrative of specific occurrences in nephrology such as renal pathology, radiology, specific-skin lesions, etc. They should be accompanied by a brief 1-paragraph description of relevant clinical information. Article must fit onto 1 page. You will be asked to cut text or part of your figure in the proof if the article is longer than 1 page.

Make Your Diagnosis
Word limit: title: 70 characters; The Case (page 1): 245 words (1,400 characters); The Diagnosis (page 2): 405 words (2,300 characters). Word limits include spaces but exclude references, tables, and figures. Abstract: no abstract required for this manuscript type. References: 3 maximum. Figures/tables: 1 single-panel figure maximum per page. This column provides readers with an opportunity to make clinical diagnoses based on an image accompanied by the history and physical exam, all of which will be on the first page. The second page will include the answers, a brief discussion, and any other relevant follow-up images and laboratory data.

Meeting Report (by invitation only)
Proceedings of meetings are solicited by the Editors, and the Meeting Report will undergo peer review. Word limit: 3000 words. Abstract: Unstructured, maximum of 150 words. Disclosure statement required. References: Maximum 50, should be important for establishing background of work discussed or published work from the meeting. General Structure: Provide an introduction that describes the purpose and context of the meeting. Identify the themes developed in the meeting and devote one section to each theme. The themes will serve as headings for the sections. Under each theme heading, highlight one presentation of particular significance. Within a theme, develop a figure or table that summarizes the rest or most of the rest of the presentations. After the meeting themes and new ideas are presented, provide a section that summarizes where the field is currently, ongoing controversies in the field, and recommendations for future directions in the field.

Nephrologists sans Frontières (by invitation only)
Word limit: 1,500 words. Abstract: no abstract required for this manuscript type. Keywords: 3–6. References: no more than 9. Figures/tables: 1.

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Policy Forum
Word limit: 1,500 words. Abstract: none. Keywords: 3–6. References: no more than 9. COI: A short disclosure statement is required.

Nephrology Digest (by invitation only)
Word limit: 600–900 words excluding references. Title: 100 characters maximum including spaces. References: 9 maximum including the article or presentation discussed. Figures/tables: 1 figure or table (figures may be redrawn). Nephrology Digests discuss a recent development in the field published or presented outside of Kidney International and should frame the issue in the wider context of the field. Nephrology Digest may also provide a forum for commentary on broader issues of relevance to research or clinical care in nephrology. Authors will not be charged for color images. Disclosure statement required.

Format of Manuscripts
Manuscripts must be typed in English and double-spaced. All text including legends, footnotes, tables, and references are to be on one side of the page only. All manuscript pages must be numbered.

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

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

Title page
This should include (a) the complete manuscript title; (b) all authors' full names (listed as first name, middle initial, last name), highest academic degrees, and affiliations; (c) the name and address for correspondence, fax number, telephone number, and e-mail address; and (d) the sources of support that require acknowledgment. A running headline of no more than 50 characters (including spaces) should be supplied.

Abstract
The abstract should be no longer than 1,500 characters including spaces, stating the main problem, methods, results, and conclusions. There should be no subheadings in the abstract. It must be factual and comprehensive. The use of abbreviations and acronyms should be limited and general statements (e.g., “the significance of the results is discussed”) should be avoided. The editors reserve the right to edit the title and abstract to conform to journal style.

The abstract should state briefly the purpose of the research, the principal results, and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, references should be avoided, but if essential, then cite the author(s) and year(s). Also, nonstandard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.
Keywords
Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

Graphical Abstract
A Graphical Abstract graphical abstract is now mandatory for Kidney International. The Graphical Abstract should summarize the contents of the article in a concise, colorful pictorial form that appeals to the online publication format. It will help readers understand the take-home message of the paper, encourage browsing, and promote interdisciplinary scholarship. Authors must provide an original graphic separate from figure(s) in the paper that clearly represents the work described, preferably saved as a PowerPoint (.ppt) file.

Graphical abstracts should be submitted at the time of revision as a separate image file in the ScholarOne manuscript submission system. We prefer that you create your Graphical Abstract using the PowerPoint template provided. If you choose to create an image without the template provided, be sure to follow the specifications indicated below.

Graphical Abstracts are subject to editorial review for accuracy and quality but will be published as provided without copy editing once they have been accepted for publication.

Specifications:
The Graphical Abstract should be a single file that summarizes the research findings using colorful images rather than text. For ease of browsing, the Graphical Abstract should have a clear start and end, preferably “reading” from top to bottom or left to right. Avoid cluttering elements or images. Refer to Graphical Library in the PowerPoint template for optional layout options. Image size: If using PowerPoint, size slide for widescreen (16:9 ratio) with high-resolution images (minimum of 300 dpi, preferably 600 dpi). If using another program, provide images with a minimum of 531 × 1328 pixels (HXW) and a minimum resolution of 300 dpi. For larger images, use 200 × 500 pixels (HxW). Font: Arial or Calibri fonts only with 18-pt size or larger. File type: preferred file types are PowerPoint, TIFF, or EPS. Save the image file name as Graphical Abstract for uploading. Do not include a heading “Graphical Abstract” within the image file. Use exact title of accepted manuscript as the title. Place author's last name and the year of publication at the bottom. Place major conclusion or take-away point within in a “Conclusion” box.

Examples:
Following are some examples examples of Graphical Abstracts using the Kidney International template.

Translational Statement (only for Basic Research articles)
The Editors require a short paragraph on the translational impact of your study. Please include this paragraph of no more than 100 words under the heading “Translational Statement” and place it in the manuscript following the abstract for editorial review. The Translational Statement should describe how you envision your work affecting clinical care now or in the future and could include a statement on next steps. The goal of this new feature is to make your basic science accessible to all of the Journal’s readership by putting it in the context of clinical care. Please note that the Translational Statement may be disseminated after publication to highlight your work.

Text
The manuscript should be organized under the following 11 headings:Graphical AbstractTitle pageAbstractTranslational Statement (only for Basic Research articles)IntroductionResultsDiscussionMethodsDisclosure statementReferencesAcknowledgements
Abbreviations
Abbreviations should be defined at first mention in the text and in each table and figure. For a list of standard abbreviations, please consult the Council of Biology Editors Style Guide (available from the Council of Science Editors, 9650 Rockville Pike, Bethesda, MD 20814) or other standard sources. Write out the full term for each abbreviation at its first use unless it is a standard unit of measure. Refrain from overuse of abbreviations.

Disclosure
For original articles, technical notes, commentaries, and reviews, the submitting author must include a disclosure statement in the body of the manuscript. The statement will describe all of the authors’ relationships with companies that may have a financial interest in the information contained in the manuscript. This information should be provided under the heading titled “Disclosure”, which should appear after the Methods section and before the References section. The absence of any interest to disclose must also be stated. In addition, any financial interests must be detailed in the Financial Disclosure form, which must be uploaded for each author upon submission. It is the responsibility of each author to provide complete and accurate financial and consulting information.

References
References should be listed in order of appearance (AMA style). Indicate references by (consecutive) superscript Arabic numerals in the order in which they appear in the text. The numerals are to be used outside periods and commas, inside colons and semicolons. For further detail and examples you are referred to the AMA Manual of Style, A Guide for Authors and Editors, Tenth Edition, ISBN 0-978-0-19-517633-9 (see http://www.amamanualofstyle.com).

The reference list (starting on a separate page) should contain the references in the order in which they are cited in the text. Only published works (as well as manuscripts already accepted for publication) which are referred to in the text should be listed in the reference list. The reference list must not contain any abstract citations, unpublished observations, personal communications, etc. Kindly cite such sources solely within the text (in parentheses), not in the reference list. Do not list more than 3 authors per reference. Should there be 4 or more, please include only the first 3 followed by "et al."

Please do not use reference linking software such as EndNote to format the citations and references. Please type them manually. If you use reference management software, please ensure that you remove ALL field codes before submitting the electronic manuscript. Please note that once you remove all hidden codes and unlink the field codes, you can no longer reformat or unformat the citations or bibliography, so always make a copy of your document prior to removing any codes. When using EndNote, you may use the EndNote tool to remove field codes, or you many manually remove the codes: Make a copy of the final manuscript. From the File menu in Word, select the Save As command. Give the file a new name. In the new file, hit CTRL+A to select all. Press Ctrl+Shift+F9 or Cmd+6 to unlink all fields. The in-text citations and bibliography become regular text, without field codes or any hidden links.

If authors still have questions about removing the field codes, technical support is available free of charge. The link to reach support is http://endnote.com/support.

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

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

Data References
Please cite underlying or relevant datasets in your text and include said references in your Reference List. Data references should include the following: author name, title, repository, version, persistent identifier, year. Add the word "dataset" in brackets (i.e., [dataset]) immediately before the reference so that it can be properly identified. This identifier will not appear in your published article.

Examples
Reference to a journal publication:

Reference to a supplement article:

Reference to a book:

Reference to a chapter in an edited book:

Reference to a dataset:

Journal abbreviations source
Journal names should be abbreviated according to the List of Title Word Abbreviations.

Acknowledgements
Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

ORIGINALITY
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The biomarker manuscript could include one or more of the following features: diagnostic, prognostic, or mechanistic (relevant to disease pathogenesis). The biomarker(s) under study could be in one of the following phases: Early phases include both discovery and proof-of-concept studies (phase 1) demonstrating differences in biomarker levels between patients with and without the outcome of interest (i.e., CKD, AKI, and CVD) and prospective studies (phase 2) to determine the association between levels, disease behavior, and future outcomes. Later phases consider aspects of clinical incorporation, including determining the
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