

**National Radiology Journal of Pakistan (NRJP)** aims to serve as a premier platform for the dissemination of high-quality research and advancements in the field of radiology within Pakistan publishing issues biannually (June & December). It strives to foster collaboration and knowledge exchange among radiologist, researchers and healthcare professionals, contributing to the enhancement of diagnostic and therapeutic practices in the field of radiology. NRJP aims to publish clinical radiology, imaging technology, radiation safety and protection, interventional radiology, radiation oncology, Nuclear medicine, radiology education and training; and healthcare policies and management related to radiology services. National Radiology Journal of Pakistan seeks to contribute significantly to the academic and clinical aspects of radiology in Pakistan by promoting evidence-based practices and fostering a collaborative environment for scientific inquiry and knowledge.

All manuscripts submitted in the journal are subject to statistical evaluation (in the case of original articles) and peer-reviewing process. The manuscript's abstract is published online on the journal's website if it is finally approved by the editor and this process (Submission to E-Pub Abstract) generally takes almost 70 to 80 days.

### **1. Manuscript Submission**

National Radiology Journal of Pakistan only accepts online manuscript submission. It is mandatory to submit Undertaking form and institutional ethical approval along with the manuscript. No manuscript will be accepted and responded without Undertaking form and institutional ethical approval. Although NRJP is an open access journal, there is currently no publication cost involved upon submission or publication of a manuscript. The journal is not providing either any subscription services. Manuscript can be directly submitted to <https://journals.lnh.edu.pk/JMS>. To get Undertaking form click here Undertaking Form.

### **2. Authorship Criteria**

- The journal follows the guidelines of COPE and ICMJE criteria for authorship available at: [www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html](http://www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html)
- and ICMJE uniform requirements/recommendations for the conduct and reporting, editing publication of scholarly work in Medical Journals available at: [www.icmje.org/recommendations/browse/manuscript-preparation/preparing-for-submission.html](http://www.icmje.org/recommendations/browse/manuscript-preparation/preparing-for-submission.html)

### **3. Categories of Articles**

National Radiology Journal of Pakistan publishes the below mentioned articles. The detailed guideline for each type of article is provided. Failure to follow the provided guidelines may result either in delayed manuscript process or article rejection.

#### **3.1. Original Research Article**

A manuscript will be considered as Original Research Article if it is an observational study or Randomized Control trial (RCT). For RCT, it is mandatory to be registered with International Registry and must have a Trial Number. The length of original research article should be 2000-2500 words exclusive of abstract and references. There should be 20-25 references. Number of tables and/or illustrations can be at most three within a manuscript and should be provided at the end of manuscript.

**An original research article would only be processed with the Ethical Approval Letter (ERC)/ Institutional Review Board Letter (IRB) on the organizational letter head with proper signatures and stamp. Exemption letter is only accepted in case of retrospective study. The author must submit this letter at the time of article submission.**

**For Clinical trial, it is mandatory to be registered (either prospectively or retrospectively) with International Registry and must have a Trial Number.**

It is suggested that authors prepare their manuscripts using the template available on the journal's website, which will assist in preparation of the manuscript according to Journal's Format. [Download the Template.](#)

There must be following section (in the same sequence) within the original article:

**a) Abstract:** There should be a structured abstract up to 200-250 words. The abstract should reflect the content of the paper including methods used, results and conclusion drawn. The subheading in the abstract should include: a) Background b) Objective c) Methods (d) Results e) Conclusion.  
**Note:** structured abstract is mandatory for the original/research articles.

- **b) Keywords:** 3 to 8 keywords should be included at the end of an abstract. Medical Subject Headings (MeSH) can be used from the list of index medicus.
- **c) Introduction:** should provide a context or background for the study and include rationale, objectives and hypothesis (where necessary). Cite only directly pertinent references, and do not include data or conclusion from the work being reported. It is desirable to cite maximum 10 references within this section. The purpose of the study should be given at the end of the introduction.
- **d) Methodology:** Should include only information that was available at the time the plan or protocol for the study was being written; all information obtained during the study belongs to the Results section. Methodology usually entails: a) Description of the study participants including exclusion and inclusion criteria b) Technical information like instrument used, drugs or chemical used and all methods and procedures should be mentioned so that other researchers can reproduce the results. References should be given for establishing methodology as applicable c) Statistical methods with enough details to enable the reader for clear understanding of the methodology. Details of statistical methods include study design, sample size calculation (with reference), statistical tools used, P-values and confidence interval and statistical package used for data analysis with its version. If an organization was paid or otherwise contracted to help conduct the research (examples include data collection and management), then this should be mentioned in the methods in detail. An statement indicating that the research was approved by an independent local, regional or national review body (e.g., ethics committee, institutional review board) should also be included. Data should not be five years older.
- **e) Results:** Present your results in logical sequence in the text, tables, and figures, giving the main or most important findings first. Do not repeat all the data in the tables or figures, in the text; emphasize or summarize only the MOST important observations. Extra or supplementary materials and technical details can be placed in an appendix where they will be accessible but will not interrupt the flow of the text, or they can be published solely in the electronic version of the journal.
- **f) Discussion:** Discussion should briefly summarize the main findings, and similarities or variations with other work done in same context. If the results vary, explore the possible mechanisms or explanations for the findings; emphasize the new and important aspects of the study and relate the implications of the findings in future research. Do not repeat in detail data or other information given in other parts of the manuscript, such as in the Introduction or the Results section. Limitations of the study should also be mentioned in this section in the last paragraph.
- **g) Conclusion:** The summary of the study should be provided in separate heading of conclusion. Concepts that are already addressed should not be repeated in this section. Unnecessary generalizations should be avoided. The author can address the possible implications for current practices or give recommendations only if applicable.

- **h) Consent for Publication:** If an article contains any person's data, such as individual details, audio-video material, *etc.*, individual's consent should be sought. In the case of children, parent's consent or legal guardian must be sought. All such case reports must be properly complied with before publication.
- **i) Availability of Data:** The statement should describe how readers can access data that supports the findings of the study, and clearly outline the reasons why unavailable data cannot be published. Statements accompanying to data availability should be mentioned in the manuscript under a separate section "Availability of Data" in the following format:
  - Authors confirm that data supporting the results of this study are available in the article.
  - Data-sets generated or analyzed during the current study are not made public because [mention the reason].
  - Authors who wish not to share their data should clearly state that the data will not be shared, and state "not applicable".
  - Data-related statement should be presented in the following format: "Data supporting article's results is available at [repository name] at [URL], reference number [reference number]".
- **j) Conflict of Interest:** Authors should declare all relevant interests that may be considered contradictory. Authors should explain why every interest can represent a conflict. If there is no conflict, the authors should state this.
- **k) Funding Statement:** Authors should explain how research and publication of their article was funded, by the name of the sponsoring organization (fully written) and then the grant attached to the Square Letter. Number (s), for example: "This work was financially supported by [funding agency name] (Grant number xxx, yyy). Similarly, if the study did not receive specific funding, but was performed as part of the authors' employment, please name this employer. If the fundraiser was involved in the decision to write, edit, approve, or publish the manuscript, please announce it.
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- **j) Author's Contribution:** Contribution of all authors should be disclosed within this section specifying the role of each author in following of the steps of manuscript preparation; study concept, designing, result analysis and interpretation, manuscript drafting, critical review and revision of initial draft. Authors' contribution should be according to the criteria of authorship suggested by COPE. Initials should be used for referring individual authors. At the end of this section, a statement of manuscript reading and its approval by all author should be given.
- **k) References:** References should follow the Vancouver style as per standards summarized in the NLM's International Committee of Medical Journal Editors (ICMJE). [wayback.archive-it.org/org-350/20190414183852](http://wayback.archive-it.org/org-350/20190414183852)  
All references should be numbered sequentially [in square brackets] within the manuscript. References should be listed in the following Vancouver Style.
  - **Journal:** Boehm M, Nabel EG. Angiotensin-converting enzyme 2 - A new cardiac regulator. N Engl J Med 2002; 347: 1795-7Boehm M, Nabel EG. Angiotensin-converting enzyme 2 - A new cardiac regulator. N Engl J Med 2002; 347: 1795-7
  - **Book:** Crabtree RH. The organometallic chemistry of the transition metals. 3rd ed. New York: Wiley & Sons 2001.
  - **Book Chapter:** Yeh DC, Rocco T. In: David EG, Armen HT, Ehrin JA, April WA, Eds. Integrative cardiovascular pharmacology. Philadelphia: Lippincott Williams & Wilkins 2005: pp. 375-83.

- **Conference Proceedings:** Jakeman DL, Withers SGE. Carbohydrate bioengineering: interdisciplinary approaches. Proceedings of the 4th Carbohydrate Bioengineering Meeting. Stockholm, Sweden, June 10-13, 2001. Jakeman DL, Withers SGE. Carbohydrate bioengineering: interdisciplinary approaches. Proceedings of the 4th Carbohydrate Bioengineering Meeting. Stockholm, Sweden, June 10-13, 2001.
- **Meeting Abstract:** Hoffman BJ. Metabolism: amino acid transporters as targets for therapeutic intervention. American Chemical Society - 228th National Meeting. Philadelphia, USA 2004..
- **Website:** Library of Medicine. Specialized information services: Toxicology and environmental health. Available at: [sis.nlm.nih.gov/sispagenotfound.html](http://sis.nlm.nih.gov/sispagenotfound.html) (Accessed on: May 23, 2009)
- **Thesis:** Mackel H. Capturing the spectra of silicon solar cells. PhD Thesis, The Australian National University, Canberra, Australia, December 2004.

### 3.2. Review Article

Overview and analysis of the topic with background and latest updates must be addressed in all kind of reviews i.e. systematic review, narrative review and evidence based review in line with the original article. It should include original work of author on the similar subject. The suggested length for review article is 2500 to 3000 words with 40-50 references. The abstract should be non-structured with 150 words and at least 3 keywords.

### 3.3. Case Report

A case report is a detailed document addressing unusual disease cases, discussing their diagnosis, treatment and patients' follow-up. The word count for case report should be 800-1200 words with 5-10 references and with a non-structured abstract of 150 words. There must be at least 3 keywords. Maximum two figures and one table are accepted in case reports.

### 3.4. Case Series

A case series is a detailed document addressing unusual disease cases (4 to 10 cases), discussing their diagnosis, treatment and patients' follow-up. The word count for case series should be between 1,500 and 2,000 words with minimum 10 references and with a non-structured abstract of 150 words. There must be at least 5 keywords. Minimum 4 figures and/or table are accepted in case series.

### 3.5. Short Communication

Short Communications are brief papers that provide original and important material for swift dissemination. For example, a brief communication might focus on a specific aspect of the problem or a new finding that is expected to have a significant impact. They may not normally exceed about 1500 - 1800 words and may have a non-structured abstract of about 150 words along with 10-12 references.

### 3.6. Letter to the Editor

The letter to the editor should be Objective, constructive and purposeful. It should offer Novel or useful information and be worth publishing, either in addition to or in lieu of on previous opinions or experience to previous published articles. Letters should be short and be concise, with clear and specific points. It may not often exceed 500 words and 5-7 references.

### 3.7. Guest Editorials

Guest Editorials should comprise of 400 words with 4-5 references. There can be maximum 3 authors. It is mandatory to state acknowledgment and funding disclosure if any.

### 3.8. Commentary

A commentary is a short article covering a current issue that is pertinent to the journal's scope. It should not exceed more than 2500 words, including the abstract, keywords, main text, tables & figures (if any) with 15-20 references.

### 3.9. Pictorial Review

Pictorial review should contain a brief abstract (200 words), main body of text at no more than 1500 words, up to 15 references and a maximum of 15 figures.

## 4. Table

Tables should be given Arabic numbers (e.g. Table 3), and care should be taken to make them as simple as possible and avoid unnecessary details. The column heads should be made as brief as possible, using abbreviations liberally. Units should appear in parentheses in the column heading but not in the body of the table. There must be consecutive citation of tables within the manuscript. Tables should not be provided in picture format. Title should be given for all the tables and placed on top of the table. Footnotes should be provided as applicable. Reference/sources should be given if tables are adopted from other studies.

## 5. Illustrations (figures)

Illustrations should not be inserted in the appropriate place in the text but should be included at the end of the paper, each on a separate page. Figures should be numbered consecutively according to the order in which they have been cited in the text. Figure caption should be given below the figure. In the manuscript, legends for illustrations should be on a separate page, with Arabic numerals corresponding to the illustrations.

High resolution image for photographs, X-ray, CT scan, MRI and photomicrographs is required in JPEG format. Patients' photograph should not be recognizable. Photographs should be sharp and of high-quality otherwise they may be sent back to author for replacement due to inferior quality.

### 5.1. Scaling/Resolution

Line Art image type is normally an image based on lines and text. It does not contain tonal or shaded areas. The preferred file format should be TIFF or EPS, with the color mode being Monochrome 1-bit or RGB, in a resolution of 900-1200 dpi.

Halftone image type is a continuous tone photograph containing no text. It should have the preferred file format TIFF, with color mode being RGB or Grayscale, in a resolution of 300 dpi.

Combination image type is an image containing halftone, text or line art elements. It should have the preferred file format TIFF, with color mode being RGB or Grayscale, in a resolution of 500-900 dpi.

## 6. Unit of measurement

Units of measurements of length, height, weight, and volume should be reported in metric units (meter, kilogram, or liter) or their decimal multiples. Temperatures should be in degrees Celsius. Blood pressures should be in millimeters of mercury. Hematologic, clinical chemistry and other measurements may vary in terms of both local and International System of Units (SI). In such case, the alternative should be provided in parentheses where appropriate.

## 7. Abbreviation (symbols)

Use only standard abbreviations; use of nonstandard abbreviations can be confusing to readers. Avoid abbreviations in the title of the manuscript.

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Authors are recommended to report guidelines issued by EQUATOR NETWORK. CONSORT guidelines for randomized clinical trial, STROBE for observational studies, PRISMA for systematic reviews and meta-analyses and STARD for diagnostic accuracy studies. These guidelines are available at [www.equator-network.org](http://www.equator-network.org).

## 9. Plagiarism Detection

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Editors of LNH&MC journals implement a strict peer review process and firm ethical policies and standards to make sure the increase of high-quality scientific research in the field of academic publishing. When we are cognizant of ethical issues, we are unswerving to investigating and taking essential actions to keep the literature's integrity and make certain the safety of research participants.

Scientific publishing involves a careful and systematic process by publishers and editors. This needs to be handled in an effective and proficient manner. Publishers always try to work closely with journal editors, authors, and peer reviewers for sustaining high ethical standards for high-quality scientific publishing.

The key points of Liaquat National Hospital and Medical College (**LNH&MC**) publishing ethics for all groups associated in the publishing process are as follows:

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- Journal editors have an important role in making important editorial decisions on all peer-reviewed articles submitted for publication.
- Editors should keep the lucidity of scholarly research and records, eliminate the need for professional cooperation with ethical standards, and be willing to publish retractions, corrections, and errata whenever necessary.
- Editors should evaluate the scientific quality and intellectual content of the manuscript, and must not make any biased decisions based on race, gender, geographic origin, or the author's religion. Editors should empirically assess the manuscript based on its academic value, without any commercial or personal interests.
- Editors shall not reveal any information related to the submitted articles before their publication.
- The integrity of the promotion of research must be maintained. If the publisher observes any type of misconduct in the research at any stage, it should conduct a prompt and detailed investigation under the appropriate authority. In addition, if any suspicious behavior is found during peer review, it should be resolved carefully.

### ***Guidelines for Reviewers***

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- Notify journal editors of any monetary or individual conflicts of interest, and refuse to review manuscripts when there is a possibility of such conflicts.
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- Must clearly admit any potential conflicts of interest.
- Appropriate acknowledgment must be given to other work (any individual, company or organization) cited/quoted. Any content used from other sources must be approved.
- Only those who have made any substantial contributions to the interpretation or composition of the submitted work can be listed as "authors". And other contributors should be called "co-authors".

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This journal follows the guidelines of COPE and ICMJE criteria for authorship available at: [www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html](http://www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html) which states authorship to be based on following criteria.

- Substantial contributions to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work; AND
- Drafting the work or revising it critically for important intellectual content; AND
- Final approval of the version to be published; AND

- Agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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Backup procedures and policies are developed for two purposes, disaster recovery and file recovery. In the event of a catastrophe, due to a physical disaster, personnel error, or other misfortune, reliable backups must provide timely and accurate restoration of all functions of the organization.



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When reporting on human studies, specify whether the following procedures were in line with the ethical standards of the committee responsible for human experiments (institutional or regional) and the 1975 Helsinki Declaration. For potential studies, relating to human partners, authors are expected to seek the approval of (Regional / National / Institutional or Independent Ethics Committee or Review Board), obtain informed consent from adult research participants, and expression of approval for children aged over 7 years participating in the trial. Ensure the confidentiality of articles by mentioning participants' names, initials or hospital numbers, especially in illustrative equipment. When writing experiments on animals, specify that the institution's or a national research council's guide for, or a national law on the care and use of laboratory animals guide for the care and use of laboratory animals prepub was followed.

The name of the relevant institutional review board and approval number should be disclosed with ethical considerations in the article. The experimental procedure of animals should be as human as possible and the details of anesthetics and analgesics should be clearly stated. Ethical standards of experiments should be in line with the guidelines provided by the CPCSEA of Helsinki and the World Medical Association Declaration on the ethical principles of medical research for the study of experimental animals and humans, respectively. The journal will not consider any paper that is morally unacceptable.

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