DESCRIPTION

The Journal of Medical Imaging and Radiation Sciences (JMIRS) is the official bilingual, peer-reviewed journal of the Canadian Association of Medical Radiation Technologists (CAMRT) and international associations across four continents, including the Hong Kong Radiographers Association (HKRA); Portuguese Association of Nuclear Medicine Technologists (APTMN); Alliance In Nuclear Scintigraphy (RAINS) in Australia; and Society of Medical Radiographers - Malta.

Our publications represent rigorous methodology mandated by international standardized guidelines, providing point-of-care clinicians, managers, educators and trainees with research articles, systematic reviews, clinical and education perspectives and commentaries. We aim to influence practice within the rapidly evolving fields of radiological, nuclear medicine, MRI and ultrasound technologists and radiation therapists, grounded in our circular tagline, "research informing practice - informing research".

JMIRS provides an essential platform for Canadian and international medical radiation technologists and therapists to publish and discover their own body of knowledge to define and inform their practice, enabling translation to a global audience.

The publication is developed under the direction of the JMIRS Editorial Board. The JMIRS is indexed in MEDLINE (PubMed).

Please see our Guide for Authors for information on article submission. If you require any further information or help, please contact the Managing Editor: editor@camrt.ca.

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GUIDE FOR AUTHORS

INTRODUCTION
This journal uses a double-blind review process. See here for our peer review policy: http://www.jmirs.org/content/reviewpolicy.

Note that EVERY article type requires the following information upon submission - additional, specific guidelines for each article type follow:

Mention of ethical approval within the Methods (or relevant) section: See "Does My Study Need Ethics? " for clarification on JMIRS requirements for all article types. Disclosure form(s)-Available at http://www.icmje.org/conflicts-of-interest/, this form must be completed by each author and submitted with the manuscript. Title Page-A concise but informative title, which will make the electronic retrieval of the article sensitive and specific; each author's full name; each author's complete affiliation(s), including department(s), institution(s), city, state, and country; and the name and complete mailing address, phone number, and e-mail address of the corresponding author. Cover Letter-Indicate if the submission is for a special issue and/or clarify the article type.

Please also include a personalized version of the following, to be published along with the article upon acceptance: Contributors: All authors contributed to the conception or design of the work, the acquisition, analysis, or interpretation of the data. All authors were involved in drafting and commenting on the paper and have approved the final version. Funding: This study did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors (OR Disclose any funding here). Competing interests: All authors have completed the ICMJE uniform disclosure form and declare no conflict of interest (OR state any conflicts here). Ethical approval: Typical entries include "Informed written consent was obtained from all participants. The REB (institution) approved the study (insert the REB approval reference number)." OR "Ethical Requirement of Research Ethics Board approval for this project was formally waived by the institution." OR "Ethical approval is not required for this article type?. If it was determined that no approval was required, please state this and explain the reason/rationale behind this decision. See "Does My Study Need Ethics? " for clarification on JMIRS requirements for all article types. Acknowledgments: Optional. Please keep this section to within 3-5 sentences. Taxonomy & Keywords-Please select at least 2 taxonomy terms; these are not specific to our profession but are general medical terms. Keywords can be chosen to reflect the specific content. The usage of MeSH terms is recommended for indexing purposes: https://meshb.nlm.nih.gov/search References-These must be listed in numerical order as they appear in the text, in superscript, followed by a full Reference listing at the conclusion of the submission (if applicable). References only need to be complete and correct - once manuscripts are accepted, references will be formatted by the publisher according to house style (see Manuscript Preparation below for more detail).

Questions? Check out our "Steps to Submit" document outlining the process, or contact the Managing Editor at any stage at editor@camrt.ca.

Article Types and Guidelines
Please see our list of article formats options - note that when submitting in Editorial Manager, you will need to select a generic article type noted in the chart below - please be sure to indicate the specific format in your cover letter.

1 Article Type Editorial Manager (dropdown menu item to select when uploading submission) Original full length research papers Research (Qualitative, Quantitative, or both) Medical Radiation Sciences Narratives Short Communication Systematic Review articles Systematic Review Literature or Narrative Reviews Review Continuing Medical Education (CME) Exam Educational or Clinical Perspectives Research (Qualitative, Quantitative, or both) Teaching Cases Case Report White Paper Research Commentaries Commentary Letters to the Editor Letters to the Editor

Original Full Length Research Papers: A substantial piece of academic writing that represents the original and independent research of the authors using planned retrospective or prospective methods to acquire and analyze data in a logical and coherent manner to address a pre-determined research question or hypothesis. Please note that you will be asked to identify whether your paper is qualitative or quantitative (or a combination) upon submission so we can ensure the appropriate peer review experts are assigned. On submission, you will be asked to upload:
Structured abstract - The abstract must be written in a structured format with the headings such as: Introduction/Background, Methods, Results, Discussion, Conclusion. Manuscript (blinded) - Standard scientific article format (introduction/background, method, results, discussion, and conclusion). Remove all author-identifying information. Institution and author names within the text should be substituted with generic phrases, such as "the institute" or "the author(s)." Where appropriate, authors may also substitute generic characters, such as "XXXX." Body of text should be between 2,500-3,000 words (word limit not enforced, if papers are too long this will be addressed in peer review). Checklist - If you are submitting a paper reporting randomized trials, you will be asked to upload the completed 25-item CONSORT checklist along with your manuscript submission. If you are submitting a paper reporting observational research, you will be asked to upload the completed STROBE checklist for cohort, case-control, and/or cross-sectional studies. If you are submitting a qualitative paper, you will be asked to upload the completed COREQ checklist. Figures and Tables - Not to exceed 10 total (includes both tables and figures). Ethics - All research manuscripts MUST provide evidence of ethics approval for human or animal studies within the Methods section. If it was determined that no approval was required, please state this.

Medical Radiation Sciences Narratives: This innovative article format is for anyone with something to share related to any aspect of medical radiation sciences. We welcome submissions from patients, families, carers, advocates, health care leaders, policy makers, and medical radiation science professionals. Narratives can offer different ways of reflecting on and making sense of experience which may teach us to better understand patients, families and each other. You can find examples of previously published narratives in this article collection.

Submissions are not restricted to any particular format—we are open to print-based formats such as personal stories, poems, photographic essays, or any other method that can communicate your narrative. This could include patient encounters or clinical experiences (good or bad), or aspects of medical radiation sciences that are not directly related to patient care. We are looking for submissions that have literary or artistic merit and can convey lived experience related to our profession in an engaging way. Further information can be found in this FAQ.

Submissions (and any accompanying images, etc.) must be of a suitable standard for publication. Submissions must also be original and not under consideration for publication elsewhere (or under copyright elsewhere).

DO NOT submit through Editorial Manager. Authors are asked to contact the managing editor (editor@camrt.ca) with ideas or draft submissions. Narratives will be reviewed for clarity, structure and relevance of content using a Checklist designed especially for health humanities submissions by an expert JMIRS editorial sub-committee. Simply send a Word document containing the following to editor@camrt.ca: Title: Something descriptive and short is best! Introductory section: for submissions that are not conventionally text-based (including poetry) we ask that you submit a brief piece to introduce yourself and to orient the reader to the rationale behind the submission. For example, how does it relate to your imaging or radiation therapy experience?. Confirm Ethical Approval: (either a statement "No ethical approval was required", or "Permission was granted from all persons and institutions described in the submission" if this is the case. In some submissions, there will need to be a statement about ethical considerations (beyond those of the conventional Institutional Research Board) in the body of the work. These statements will be published along with the article. This can be uploaded as ‘Supplementary Material" Submissions containing photographs, video, or similarly identifiable patient information will require explicit consent of the patient or guardian in the form of the attached release prior to acceptance. Click here to download the release form. Authors need to anonymise the identity of people and locations/institutions unless permission is obtained. In addition, the authors should show the manuscript to all persons described in the submission and to obtain their permission to publish the material. Although we do not require signed permission from the subjects of essays, we do require the authors to state in writing whether they obtained the subjects' permission. If the author has not obtained permission, they should explain the reasons for its absence in a cover letter that accompanies the manuscript. We will consider nonfiction material that does not have the subject's permission at the editors' discretion.

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Review articles: This article type can include Literature Reviews/Narrative Reviews and Systematic Reviews. A systematic review is more than a summary of the literature. A systematic review uses structured and systematic methods to source, assess, include, exclude and critically analyze the depth and breadth of current literature on a given topic. In doing so, it provides a rigorous approach to generating new knowledge. A systematic review should provide appraisal and synthesis against primary published literature that has been identified through a rigorous, non-biased strategy that is clearly documented as part of the manuscript. Variations on the traditional systematic review could include cost effectiveness analyses and meta analyses. Per PRISMA guidelines, systematic reviews and meta-analyses must be identified as such in the article title. *The JMIRS requires that all reviews be registered in PROSPERO in advance of data extraction. On submission you will be asked to upload:

Structured abstract - The abstract must be written in a structured format with the following headings: Introduction/Background, Methods, Results, Discussion, Conclusion. Manuscript (blinded) - Standard scientific article format (introduction, method, results, discussion, and conclusion). Remove all author-identifying information. Institution and author names within the text should be substituted with generic phrases, such as "the institute" or "the author(s)." Where appropriate, authors may also substitute generic characters, such as "XXXX." Body of text should be between 2,500-3,000 words (word limit not strictly enforced, if papers are too long this will be addressed in peer review). Checklist - PRISMA checklist (http://www.prisma-statement.org/) Figures and Tables - Not to exceed 6 total (includes both tables and figures). Tables summarizing literature used in the systematic review should be included as appendix material.

Continuing Medical Education (CME) articles: A CME article typically summarizes recent research on a topic without making an original contribution to the body of knowledge. This type of article is generally broad in scope and describes all aspects of a health care topic relevant to medical radiation technologists. The CME article is designed to contribute to the professional development of medical radiation technologists. These articles allow CAMRT members and journal subscribers to earn continuing education credits and keep up with advances in the profession. They are typically written in the form a review article (without the prescriptive systematic approach, although rigor and structure is crucial for an unbiased article) and maintain an informative or education perspective. These could relate to the full gamut of medical radiation science clinical practice and all fields identified in the introduction served by JMIRS. On submission, you will be asked to upload:

Unstructured abstract - with 3-4 learning objectives using Bloom's Taxonomy (https://tips.uark.edu/using-blooms-taxonomy/). Manuscript - Body of text can be between 3,000-5,000 words (word limit not strictly enforced, if papers are too long this will be addressed in peer review). Quiz Questions and Answers - 10 multiple choice questions should accompany the article. Each question requires: A stem - a question, statement or incomplete sentence that immediately precedes a list of options or alternatives; It must address a specific issue requiring an answer or the completion of a statement; One correct answer; Three plausible misleads or incorrect answers. Answers should be highlighted or included in a legend. Figures and Tables - Not to exceed 6 total (includes both tables and figures). Tables summarizing literature used in the systematic review should be included as appendix material. Editorial Manager note - Select "Exam" for this article type.

Educational or Clinical Perspectives: Educational undergraduate or graduate level highlight innovative and useful approaches to medical radiation sciences education and evaluation of educational methods, either at the undergraduate or graduate level. Clinical Perspectives highlight key aspects of clinical practice and approaches to improve the same. This could include, without being limited to, process/protocol improvement, quality improvement, innovative initiative, practice change, emerging advancement and/or process change. These are similar in format to a research paper, but the reporting of results and analysis is less vigorous as these are a faster way of disseminating what is happening on the front lines of clinical practice, and thus do not always fall neatly into traditional research reporting. Quality improvement brings evidence into practice, while research introduces new knowledge. Note that no results are required to submit in this format, and these submissions are generally REB exempt. On submission, you will be asked to upload:
Structured abstract - The abstract must be written in a structured format with the following headings: Introduction/Background, Methods, Results, Discussion, Conclusion. Manuscript - Body of text should be between 2,500–3,000 words (word limit not strictly enforced, if papers are too long this will be addressed in peer review). Editorial Manager note - Select "Short Communication" for this article type, and indicate Educational or Clinical Perspective in your cover letter. Figures and Tables - Not to exceed 4 total (includes both tables and figures).

Teaching Cases: These papers are not simply an interesting case. They represent interesting cases that provide key teaching points and, thus, generation of new knowledge. Cases do not need to be rare, but present some insights that may not be typical in clinical practice. This might involve incidental or anomalous findings, enhanced outcomes with hybrid imaging or inter-professional interactions, unexpected outcomes (treatment or diagnosis), enhanced outcomes through personalized medicine strategies, unique approaches to overcome barriers for an outcome (e.g. cultural barriers), population specific manifestation (e.g.. Indigenous population). Cases that demonstrate an integration of modalities and disciplines are encouraged. Strong learning objectives adopting an integrated approach to the MRS disciplines are ideal. Articles need to clearly define the case and its outcomes, and link that through discussion and evidence to provide clear connections to the importance to clinical practice or "clinical pearls / teaching points". On submission, you will be asked to upload:

Structured abstract - e.g. Introduction; Case and outcomes, Discussion, Conclusion. Manuscript (blinded) - Standard scientific article format (Intro/Background; Case and outcomes, Discussion and teaching points, recommendations and clinical pearls, Conclusion). Remove all author-identifying information. Institution and author names within the text should be substituted with generic phrases, such as "the institute" or "the author(s)." Where appropriate, authors may also substitute generic characters, such as "XXXX." Body of text should be between 800-1,000 words (word limit not strictly enforced, if papers are too long this will be addressed in peer review). Checklist - CARE checklist (http://www.care-statement.org/resources/checklist) Figures and Tables - Not to exceed 6 total (includes both tables and figures). Editorial Manager note - Select "Case Report" for this article type

All of the above styles undergo rigorous peer review process as editorial style commentary, issues below. The following submission styles have variable peer review process as described for each.

Commentaries (Uninvited or Invited): Commentary papers are short, scholarly writings (with no structured abstract) that comment on an issue and/or perspective. Note that these will not be reviewed through the traditional peer review process, but rather reviewed by the Editor-in-Chief and Deputy Editor for accuracy, appropriateness and suitability with our audience. This type of article includes the traditional editorial style commentary, issues / controversies style debate. Commentaries (invited or uninvited) typically focus on a key issue and perspective. Issues / controversies are generally invited but could be unsolicited submissions where a topic is scrutinized and debated from more than one perspective. On submission, you will be asked to upload:

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White Papers: These are generally produced with the Association and undergo internal peer review from board members - contact the Managing Editor with any inquiries about this article type at editor@camrt.ca

Title: Must include "White Paper" and "Association Name" XXX: A (Association name) White Paper Association name White Paper on XXX Unstructured abstract (>250 words) Background & Topic description Description of group Summary of recommendation overview Manuscript: Standard scientific article format where applicable (introduction/background, scope of problem, discussion, and conclusion). Body of text should be between 3,000-4,000 words (word limit not enforced, if papers are too long this will be addressed in peer review). Figures and Tables: Not to exceed 10 total (includes both tables and figures). Acknowledgments: This section can be used to acknowledge contributing members (i.e., not contributing authors)
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**BEFORE YOU BEGIN**

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**Reporting guidance**
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as a limitation to their research’s generalizability. Importantly, authors should explicitly state what definitions of sex and/or gender they are applying to enhance the precision, rigor and reproducibility of their research and to avoid ambiguity or conflation of terms and the constructs to which they refer (see Definitions section below). Authors can refer to the Sex and Gender Equity in Research (SAGER) guidelines and the SAGER guidelines checklist. These offer systematic approaches to the use and editorial review of sex and gender information in study design, data analysis, outcome reporting and research interpretation - however, please note there is no single, universally agreed-upon set of guidelines for defining sex and gender.

Definitions
Sex generally refers to a set of biological attributes that are associated with physical and physiological features (e.g., chromosomal genotype, hormonal levels, internal and external anatomy). A binary sex categorization (male/female) is usually designated at birth (“sex assigned at birth”), most often based solely on the visible external anatomy of a newborn. Gender generally refers to socially constructed roles, behaviors, and identities of women, men and gender-diverse people that occur in a historical and cultural context and may vary across societies and over time. Gender influences how people view themselves and each other, how they behave and interact and how power is distributed in society. Sex and gender are often incorrectly portrayed as binary (female/male or woman/man) and unchanging whereas these constructs actually exist along a spectrum and include additional sex categorizations and gender identities such as people who are intersex/have differences of sex development (DSD) or identify as non-binary. Moreover, the terms "sex" and "gender" can be ambiguous—thus it is important for authors to define the manner in which they are used. In addition to this definition guidance and the SAGER guidelines, the resources on this page offer further insight around sex and gender in research studies.

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