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Editorial

Case reports: An essential research communication in medical literature

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Patients are the best teachers in medicine and there is a learning opportunity with every patient encounter. The case report has been an integral part of medical literature since the time of Hippocrates.^[1] It is the first of the few methods by which the health professionals could communicate or disseminate important messages about clinical cases, diagnosis, treatment, and follow-up in medical literature. This sharing of the clinical experience serves as an important way of transferring knowledge.^[2] The purpose of the case report is to primarily improve our knowledge in various clinical presentations, diagnostic approaches, and different modalities of therapeutic interventions, which will ultimately lead to a better quality of patient care.^[3] Case reports serve as a repository of information on rare clinical cases and presentations and any novelty in diagnostic or treatment approaches that will stimulate future research.

WHAT IS THE CHALLENGE AND PROBLEM?

Traditional case reports have been long in vogue to report new clinical observations and novelty, generate data about rare cases, to do in-depth narrative studies, and has served as an educational tool. However, its scientific relevance of case reports has been challenged by the advent of newer and advanced research methodologies such as randomized controlled trials and evidence-based medicine.^[4] There are several journals that continue to publish case reports as they continue to be valuable educational tools for clinical cases. The editorial is to support and highlight the importance of case reports as a valuable educational and research-facilitating tool.

WHAT IS STRUCTURE OF A GOOD CASE REPORT?

A good case report is a coherent, in-depth account that distills the main points of a new or uncommon medical event. A well-written case report offers a methodical and comprehensive account of medical incidents of interest. By ensuring clarity, logical flow, and thorough documentation, its structure helps readers understand the case's importance and wider ramifications. To explain the case methodically and promote learning, each section is essential.

- 1. Abstract and title
 - The title ought to be succinct, educational, and representative of the main element that distinguishes the case.
- 2. The abstract provides a concise synopsis of the case, highlighting the primary conclusions, importance, and important lessons learned.
- 3. Introduction
 - Establish the scene by outlining the case's significance and background. Explain in detail why the case is being given, including any unique features, difficulty, or rarity.
- 4. Case presentation
 - Describe the patient's history, symptoms, clinical findings, diagnosis, course of treatment, and results in chronological order.
 - Assure accuracy and thoroughness by including all pertinent information, including imaging, laboratory results, and other investigations.
 - To increase clarity, add visual components to the description, such as timelines, infographics, or pictures.
- 5. Discussion
 - Analyze the case in light of current medical knowledge by comparing it with published works or recommendations.
 - Emphasize important takeaways, such as therapeutic or diagnostic revelations and how they apply to clinical practice.

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- Discuss about any difficulties or restrictions that arose during the case.
- 6. In conclusion
 - Provide a brief summary of the case's main conclusions and their implications.
 - Stress the case's wider ramifications or possible directions for future investigation.
- 7. Reference
 - Provide a thorough and carefully chosen list of references to back up the subject and give more background.
- 8. Patient perspective and ethical issues
 - Ensure all ethical protocols, such as informed consent and confidentiality, are adhered to and explicitly mentioned.
- 9. Incorporate the patient's perspective, where relevant, to provide a more holistic, empathetic and humanized view of the case.^[5]

WHAT ARE THE WAYS TO ENHANCE THE CASE REPORT?

Going beyond the standard format and incorporating innovative strategies helps enhance the quality and impact of case reports. First, selecting a unique and impactful case is crucial; cases with rare presentations, novel treatment approaches, or diagnostic challenges capture interest and add value to the literature. High-quality visuals, such as annotated images, flowcharts, and timelines, can make complex information clearer and more engaging. Including the patient's perspective, such as their experiences and feedback, adds depth and humanizes the report.

Another useful strategy is comparative analysis, which involves comparing the case to comparable ones in the literature to emphasize its originality and broader relevance. Emphasizing multidisciplinary collaboration highlights the teamwork required to manage the case and can give insights into integrated care practices. Ethical and cultural components, which are sometimes disregarded, are also worth considering since they provide lessons in negotiating complicated therapeutic circumstances.

Including concrete learning points ensures the report's practical usefulness. Summarizing diagnostic red flags, therapeutic difficulties, or management strategies might help healthcare professionals dealing with similar patients. Writing in a clear and accessible narrative style enhances the report's engagement while retaining scientific integrity. Incorporating follow-up data and describing long-term results improves the report's clinical utility. Reflective insights on how the case influenced clinical practice or broader healthcare implications further strengthen its impact.

Finally, integrating innovations, such as novel diagnostic

tools or technology-driven approaches, and acknowledging the report's limitations, including suggestions for future research, can set it apart. These enhancements ensure that the case report is not only informative but also serves as a meaningful contribution to the field.

WAYS TO ENHANCE

- Select unique cases with significant clinical relevance
- Use high-quality visuals and clear timelines
- Highlight patient perspectives and interdisciplinary collaboration
- Provide comparative analysis with existing literature
- Include actionable learning points and reflective insights
- Discuss ethical, cultural, and technological aspects
- Acknowledge limitations and propose future directions.^[6]

USEFULNESS OF CASE REPORTS AS A RESEARCH AND EDUCATIONAL TOOL

Case reports are an important tool for both research and education in medicine. They give extensive insights into individual patient situations, providing great learning opportunities and stimulating ideas for future study. Case studies help to advance clinical knowledge by recording rare illnesses, unexpected presentations, and creative treatment techniques. They also encourage critical thinking, problemsolving, and decision-making by demonstrating real-world applications of medical ideas. In medical education, case reports are useful teaching tools that assist students and practitioners in comprehending the complexities of patient care, from diagnosis to therapy. They promote multidisciplinary collaboration and innovation by emphasizing teamwork and creative approaches to healthcare treatment. Furthermore, case studies raise ethical and cultural awareness by providing lessons on patient-centered care and the many settings of medical practice. Individual case reports have minimal evidence, but they frequently serve as the foundation for bigger research and make a significant contribution to evidence-based medicine.^[7,8]

UTILITY OF CASE REPORTS

- Promoting researchers in the early stages: Many physicians begin their academic publication careers by writing a case report. It offers a controlled environment for learning the fundamentals of research, including scientific communication, documentation, and literature reviews.
- Emphasizing rare diseases: In large trials, rare diseases are frequently underreported. Case reports bridge this gap by raising awareness and encouraging the early discovery of illnesses that could otherwise go unnoticed.
- Challenging established knowledge: Case reports can record situations in which patient outcomes fall short of expectations, casting doubt on long-standing procedures or pointing out areas that clinical recommendations need to be reevaluated.

- Advancing personalized medicine: By concentrating on specific instances, these papers highlight the significance of customizing care to meet each patient's particular requirements, setting the stage for future developments in personalized medicine.
- Promoting global education: Case reports from various geographical areas aid in the worldwide comprehension of disease trends, therapies, and results. They offer an invaluable understanding of how healthcare systems manage comparable issues in various cultural and economic contexts.^[9]

STRATEGIES TO INCREASE THE EDUCATIONAL IMPACT

- Interactive educational resources: To promote active learning among students and trainees, include case reports into role-playing games, group discussions, and simulations.
- Emphasis on diagnostic reasoning: Educate students on how to handle complicated or unusual presentations by highlighting the reasoning behind diagnosis.
- Integrate visual learning: To accommodate different learning styles, use visual aids like imaging studies, histopathology slides, or therapy timetables.
- Promote reflective practice: Utilize case studies to motivate therapists to evaluate themselves and to think back on comparable situations they could run into in their work.

Beyond merely documenting medical occurrences, case reports are dynamic instruments that stimulate inquiry, enhance patient care, and support lifelong learning. They continue to influence the direction of medicine by cultivating a culture of careful observation and considerate reporting.

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