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REVIEWER'S REPORT

Manuscript No.: **IJAR-52897** Date: 21-07-2025

Title: AN NANOROBOT: PIONEERS OF PRECISION MEDICINE

Recommendation:
Accept as it is .....
Accept after minor revision.....
Accept after major revision .....
Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity			✓	
Significance			✓	

Reviewer Name: Dr Aamina

Overview:
This review article presents a well-structured and informative overview of nanorobots as a transformative frontier in precision medicine. It explores their core structure, various types, natural counterparts in biological systems, and ongoing developments in clinical applications. The content is timely and relevant, particularly as nanotechnology becomes increasingly integrated with biomedical research and healthcare delivery.

Title and Abstract:
The title is clear and compelling, effectively capturing the essence of the article. The abstract outlines the scope and objectives succinctly, giving readers a concise summary of the nanorobots' role, scale, capabilities, and future directions. It also specifies the methodology of literature analysis, indicating credibility through the use of databases such as PubMed, Science Direct, MEDLINE, Scopus, and Google Scholar.

Introduction and Contextualization:
The introduction successfully contextualizes nanorobots within the broader field of nanotechnology and biomedical applications. It conveys the relevance of nanorobots to minimally invasive procedures and the promise they hold in tackling complex medical challenges. The mention of their ability to reach otherwise inaccessible body regions highlights their unique advantage in clinical settings.

Structure and Organization:
The article follows a logical and coherent structure, progressing from general definitions to classifications, and then to specific applications. The segmentation into categories such as "Types of Nanorobots," "Natural Nanorobots," and "Nanosubmarines" provides clarity and thematic focus. The flow supports the reader's comprehension and engagement with the technical content.

Scientific Content and Depth:
The article touches on fundamental aspects such as nanobot dimensions, composition, biological analogs,

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and design principles. It references the integration of nanotechnology with biological systems and demonstrates awareness of both theoretical and practical perspectives. While the field is still developing, the paper reflects an up-to-date understanding of the experimental landscape.

Use of Sources:
By referencing major research databases, the article positions itself within a rigorous academic framework. The review method enhances credibility and provides assurance that the discussion is grounded in current and peer-reviewed scientific literature.

Applications and Relevance:
The section on medical nanorobots is particularly insightful in its reference to drug delivery and cellular-level surgery. The article emphasizes the precision and minimally invasive nature of such technologies, aligning well with the goals of precision medicine. The practical examples discussed contribute to the real-world relevance of the research.

Language and Terminology:
The language is mostly accessible and suitable for a scientific readership. Key terms are appropriately introduced and used consistently. The terminology is specific enough to convey technical concepts while remaining approachable to readers with a general understanding of nanotechnology and biomedical sciences.

Overall Assessment:
This review article presents a comprehensive, current, and well-articulated discussion on the potential of nanorobots in precision medicine. It effectively introduces the subject, categorizes its types and functions, and aligns the discussion with cutting-edge biomedical applications. The article provides valuable insights for researchers, clinicians, and students interested in nanotechnology's impact on modern healthcare.