

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Medicine and Medical Research</a>
Manuscript Number:	Ms_JAMMR_124397
Title of the Manuscript:	Can Biomarkers be Used for Risk Assessment for Osteoarthritis? A Systematic Review
Type of the Article	

#### PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>	This manuscript consolidates existing research on osteoarthritis (OA) biomarkers and highlights the potential for using these markers to improve early diagnosis, disease monitoring, and personalised treatment strategies. Focusing on multi-marker models offers a forward-thinking approach to overcoming the limitations of single biomarkers, which could lead to more accurate risk assessments and targeted interventions. The comprehensive nature of the review and its emphasis on integrating clinical variables with biomarker data is appreciable. However, further elaboration on how these multi-marker models can be practically applied in clinical settings would strengthen its relevance.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	Yes But can be more precise as Biomarkers for Osteoarthritis: Enhancing Diagnostic Accuracy and Prognostic Insights - A Comprehensive Review	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	The abstract is comprehensive Briefly acknowledge any limitations that were identified in the review. Give a statement about the implications of the findings and possible directions for future research.	
<b>Are subsections and structure of the manuscript appropriate?</b>	Yes	
<b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b>	This manuscript is scientifically robust and technically sound, as it systematically reviews the literature on biomarkers in osteoarthritis (OA) by synthesising data from multiple studies. Its comprehensive overview of various biomarkers and their implications for early diagnosis and disease progression demonstrates a thorough understanding of OA's biological mechanisms. Adherence to PRISMA guidelines adds credibility to the methodology, ensuring transparency. Overall, this work provides valuable insights that can inform future research and clinical practice in OA management.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> =	The references are sufficient The following references can be referred 1. Wang Y, et al. "Machine learning-based biomarker discovery for osteoarthritis diagnosis: A systematic review." <i>Osteoarthr Cartil.</i> 2023;31(1):15-25.	

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Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<b>Optional/General</b> comments	Overall, this manuscript presents a comprehensive and insightful review of the role of biomarkers in the diagnosis and prognosis of osteoarthritis (OA). The manuscript is well-structured, with a clear introduction, thorough discussion of various biomarkers, and a thoughtful conclusion that emphasizes the need for further research in this area. Addressing the reliability and specificity of existing biomarkers in more detail would strengthen the manuscript.	

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### **Reviewer Details:**

Name:	<b>Hemant Paradkar</b>
Department, University & Country	<b>APM's Ayurved Mahavidyalaya, India</b>