

Recent Advances in Biomechanics Research: Implications for Sports Performance and Injury Prevention

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E d i t o r	R e v i e w e r s
Mostafa Zarei  Associate Professor, Faculty of Sport Sciences and Health Shahid Beheshti University, Tehran, Iran m_zareei@sbu.ac.ir	Reviewer 1: Omar Boukhris  SIESTA Research Department, School of Allied Health, Human Services and Sport, La Trobe University, Melbourne, Australia. Email: omarboukhris@latrobe.edu.au Reviewer 2: Elham Azimzadeh  Assistant Professor, Department of Behavioral, Cognitive Sciences and Sports Technology, Faculty of Sport Sciences and Health Shahid Beheshti University, Tehran, Iran. Email: e_azimzadeh@sbu.ac.ir

1. Round 1

1.1 Reviewer 1

Date: 27 May 2023

Reviewer: The article is an excellent contribution to biomechanics literature but requires minor revisions for enhanced clarity, depth, and comprehensiveness. Addressing these areas will make the review more robust and relevant to current developments in the field.

The review could be more comprehensive in covering seminal works in the field. Include key foundational studies for a more rounded literature review.

The analysis of technological advancements in biomechanics is somewhat superficial.

Provide a deeper exploration of how these technologies specifically impact biomechanics research.

The integration of case studies is limited and lacks detailed examination. Incorporate more detailed case studies to illustrate the practical applications of the reviewed concepts.

The article sometimes lacks a critical perspective on the cited literature. Offer a more critical analysis of the sources, including their limitations.

The article's structure can be improved for better readability and flow. Reorganize the content for a more logical flow and clearer presentation.

The implications for future research and practice in biomechanics are not thoroughly discussed. Expand the discussion on the implications of the findings for the field.

The article could better highlight current trends and their relevance to the field. Include a section discussing current trends in biomechanics research.

The discussion of technological advancements is quite general. Focus on specific technologies and their direct impact on biomechanics.

The author uploaded the revised document.

1.2 Reviewer 2

Date: 29 May 2023

Reviewer: This review article offers a good overview of recent advances in biomechanics but needs minor revisions to elevate its quality. Enhancing the depth, balance, and accessibility of the content will significantly augment its contribution to the field, making it a more comprehensive and insightful resource for readers.

The review does not adequately address the most recent and emerging research in biomechanics. Update the literature review to include the latest research developments.

Some sections, like injury prevention, are less developed compared to others. Ensure a more balanced coverage across all sections of the review.

The article lacks a detailed analysis of the methodologies used in the reviewed studies. Include a critique of the methodologies employed in the studies discussed.

The discussion section lacks depth in linking the review findings to broader biomechanics themes. Enhance the depth of the discussion to better connect with wider biomechanics topics.

The review lacks sufficient visual aids, such as figures or tables. Incorporate relevant visual aids to support the textual content.

The synthesis of findings from the reviewed literature could be more cohesive. Improve the synthesis to provide a more cohesive overview of the research.

The technical language used may not be accessible to a broader audience. Simplify the language to make the review more accessible to non-specialists.

The review could benefit from more interdisciplinary insights, particularly from related fields. Integrate perspectives from related disciplines to enrich the review.

Formatting inconsistencies are present, affecting the article's professional appearance. Adhere to consistent formatting as per the journal's guidelines.

The author uploaded the revised document.

2. Revised

Editor's decision after revisions: Accepted.

Editor in Chief's decision: Accepted.