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## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Cardiology*

**Manuscript NO:** 103947

**Title:** Role of Interleukins in the Pathogenesis of Coronary Heart Disease: A Literature Review

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 07838429

**Position:** Peer Reviewer

**Academic degree and professional title:** PhD, Postdoctoral Fellow

**Reviewer's Country/Territory:** Pakistan

**Author's Country/Territory:** Pakistan

**Manuscript submission date:** 2024-12-04

**Reviewer chosen by:** AI Editor

**Reviewer accepted review:** 2024-12-09 20:03

**Reviewer performed review:** 2024-12-09 20:32

**Review time:** 1 Hour

<b>Content to be reviewed</b>	
<b>Scientific quality</b>	Grade B (Very good)
<b>Novelty of this manuscript</b>	Grade B (Very Good)
<b>Creativity or innovation of this manuscript</b>	Grade C (Good)
<b>Scientific significance of the conclusion in this manuscript</b>	Grade B (Very Good)
<b>Language quality</b>	Grade B (Very good)



Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
Conclusion	Minor revision
Re-review	Yes
Peer-reviewer statements	Peer-Review: Onymous
	Conflicts-of-Interest: No

### SPECIFIC COMMENTS TO AUTHORS

Comments to authors The manuscript comprehensively reviews the role of interleukins (ILs) in the pathogenesis of coronary heart disease (CHD). While it addresses critical aspects of the topic, several areas require attention to enhance its scientific rigor, clarity, and overall quality. It systematically summarizes the current knowledge on interleukins in CHD but would benefit from a more in-depth analysis of novel research findings. Following are a few suggestions for further improvements: Abstract The abstract effectively summarizes the manuscript's main points, including the critical role of interleukins in CHD. It highlights the focus on inflammation and potential therapeutic strategies targeting ILs. However, the uniqueness of the methodology could be emphasized further to underscore the novelty of the research. Introduction The introduction provides an adequate background on the role of ILs in inflammation and CHD. However, it should explicitly highlight the current gaps in understanding or unresolved questions in the field. For instance, specific unknowns about the mechanisms by which certain ILs influence CHD progression or the limitations of existing studies could be elaborated. Additionally, the study's objectives should be clearly stated to



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guide the reader. **Materials and Methods/Experimental Procedure** The manuscript lacks a dedicated methods section. As a review, it would benefit from a brief explanation of how literature was selected, including the inclusion/exclusion criteria, databases searched, and keywords used. This would provide transparency and allow readers to assess the comprehensiveness of the review. If the review synthesizes experimental data, details about the methods employed in those experiments should be included. **Results** The results are presented clearly and understandably. However, there is no detailed explanation of how the findings directly relate to the methods described. The use of statistical analysis is mentioned, but the specifics of the data interpretation and its consistency with the study's methods need to be elaborated. **Discussion** The study's limitations are not discussed, which would have provided a more balanced view. It would also be beneficial to propose future research directions to address the unanswered questions. **Language** The manuscript is well-written, with minimal grammatical and spelling errors. The language is clear and concise, though it could benefit from minor improvements in sentence structure to enhance readability.



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**Peer-review model:** Single blind

**Reviewer's code:** 07814996

**Position:** Peer Reviewer

**Academic degree and professional title:** Associate Professor, Chief Physician, MD

**Reviewer's Country/Territory:** United States

**Author's Country/Territory:** Pakistan

**Manuscript submission date:** 2024-12-04

**Reviewer chosen by:** Hong-Xin Jiang

**Reviewer accepted review:** 2024-12-20 16:26

**Reviewer performed review:** 2024-12-20 16:36

**Review time:** 1 Hour

<b>Content to be reviewed</b>	
<b>Scientific quality</b>	Grade D (Fair)
<b>Novelty of this manuscript</b>	Grade C (Good)
<b>Creativity or innovation of this manuscript</b>	Grade C (Good)
<b>Scientific significance of the conclusion in this manuscript</b>	Grade C (Good)
<b>Language quality</b>	Grade C (Good)



Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
<b>Conclusion</b>	Major revision
<b>Re-review</b>	Yes
<b>Peer-reviewer statements</b>	Peer-Review: Onymous
	Conflicts-of-Interest: No

### SPECIFIC COMMENTS TO AUTHORS

1. The methods section is vague and does not provide sufficient detail on how the literature was selected and analyzed. Statements like "preference was given to papers published recently" are not substantiated by a robust inclusion/exclusion criteria or systematic review methodology. 2. Many sections merely regurgitate findings from cited studies without critically evaluating their strengths, weaknesses, or implications. For instance, the discussion on IL-6's role in CHD does not contextualize its predictive value or limitations in clinical settings. 3. Figures 1 and 2 are inadequately described in the text. Their content, relevance, and design appear generic, offering little to support the manuscript's claims. Incomplete Discussion on Therapeutic Strategies: 4. The manuscript contains numerous grammatical errors and awkward phrasing, such as "This review article discusses only major interleukins which were not reported collectively in coronary heart disease." These issues detract from readability and professionalism. Redundancy: 5. Several sections, particularly in the introduction and the discussion of individual interleukins, repeat similar points, leading to unnecessary verbosity. 6. While the manuscript cites many studies, the citations are not always integrated thoughtfully



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into the text. Furthermore, the reliance on older studies in some cases (e.g., references from the 1990s) undermines the relevance of the conclusions. 7. Some terms are used inconsistently. For example, "atherosclerosis" and "CHD" are often conflated without explanation, which could confuse readers. 8. Reorganize the manuscript around a central theme, such as the interplay between specific interleukins and inflammation in CHD. Provide a more cohesive narrative. Critical Analysis: 10. Adopt a systematic approach to the literature review. Define clear criteria for study selection and provide a flowchart summarizing the search and screening process. Expand the discussion on therapeutic strategies, focusing on their clinical relevance, current limitations, and future directions. Redesign figures to make them more informative and visually engaging. Clearly explain their content and relevance in the text. Proofread the manuscript for grammar, syntax, and clarity. Avoid redundancy and streamline the content for better readability. Incorporate more recent studies to enhance the manuscript's relevance and credibility.



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**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05660628

**Position:** Peer Reviewer

**Academic degree and professional title:** Chief Physician, PhD

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Pakistan

**Manuscript submission date:** 2024-12-04

**Reviewer chosen by:** Hong-Xin Jiang

**Reviewer accepted review:** 2025-01-09 03:22

**Reviewer performed review:** 2025-01-12 12:49

**Review time:** 3 Days and 9 Hours

<b>Content to be reviewed</b>	
<b>Scientific quality</b>	Grade B (Very good)
<b>Novelty of this manuscript</b>	Grade B (Very Good)
<b>Creativity or innovation of this manuscript</b>	Grade B (Very Good)
<b>Scientific significance of the conclusion in this manuscript</b>	Grade B (Very Good)
<b>Language quality</b>	Grade B (Very good)



Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
Conclusion	Minor revision
Re-review	Yes
Peer-reviewer statements	Peer-Review: Anonymous
	Conflicts-of-Interest: No

### SPECIFIC COMMENTS TO AUTHORS

The manuscript offers a comprehensive review of the roles of interleukins (ILs) in the pathogenesis of coronary heart disease (CHD), a topic of increasing significance as our understanding of inflammatory pathways in cardiovascular diseases continues to grow. However, there are several areas that require enhancement to elevate the quality and impact of this review. 1.the manuscript predominantly summarizes existing literature without delving into a critical evaluation. A more in-depth exploration of controversies, gaps in research, and limitations of current studies is essential. For instance, the dual role of IL-10 as both a pro-inflammatory and anti-inflammatory cytokine is a complex issue that warrants a more critical discussion. The author should consider including a dedicated section that synthesizes the collective roles of ILs in CHD, integrating findings across different ILs to provide a holistic and cohesive view of their involvement in the disease process. 2. the narrative structure of the manuscript often feels fragmented. Each IL is discussed in isolation, without adequately integrating their interrelationships or their combined impact on the pathogenesis of CHD. This approach can make it difficult for readers to grasp the bigger picture. Including a concluding synthesis at the end of



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each section would greatly aid in consolidating the information and highlighting the interconnectedness of the various ILs in the context of CHD. 3. the methodology for selecting articles is not sufficiently detailed. The inclusion and exclusion criteria for the studies reviewed are notably absent. This lack of clarity affects the reproducibility and reliability of the review, which are crucial aspects for any scientific work. A more transparent and detailed description of the selection process would strengthen the credibility of the findings presented. 4.the manuscript contains repetitive content, such as the roles of ILs in inflammation and atherosclerosis. While repetition can sometimes be useful for emphasis, in this case, it detracts from the conciseness of the review. Consolidating repetitive points into a more streamlined narrative would enhance the clarity and efficiency of the communication. 5.the manuscript has several grammatical errors and awkward phrasings that significantly impact readability. Examples include incomplete sentences and the misuse of tenses, such as the phrase "It was discovered that a suitable lifestyle modification might reduce IL-1Ra levels." A thorough language review is necessary to correct these grammatical errors and improve the overall readability of the manuscript. This would involve not only fixing the identified issues but also ensuring that the language flows smoothly and is easily comprehensible to the target audience. 6. the manuscript would benefit from more detailed figure legends and explicit references to figures within the text. Additionally, the inclusion of a summary table that highlights the roles, mechanisms, and therapeutic implications of each IL would be a valuable addition. This would provide readers with a quick reference point and help to consolidate the key information presented in the review. 7. Include a dedicated section on future research directions, emphasizing gaps in knowledge, potential biomarkers, and therapeutic targets among the ILs.



**RE-REVIEW REPORT OF REVISED MANUSCRIPT**

**Name of journal:** *World Journal of Cardiology*

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**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 07838429

**Position:** Peer Reviewer

**Academic degree and professional title:** PhD, Postdoctoral Fellow

**Reviewer's Country/Territory:** Pakistan

**Author's Country/Territory:** Pakistan

**Manuscript submission date:** 2024-12-04

**Reviewer chosen by:** Huo Liu

**Reviewer accepted review:** 2025-01-23 09:46

**Reviewer performed review:** 2025-01-23 09:54

**Review time:** 1 Hour

<b>Content to be reviewed</b>	
<b>Scientific quality</b>	Grade A (Excellent)
<b>Novelty of this manuscript</b>	Grade B (Very Good)
<b>Creativity or innovation of this manuscript</b>	Grade B (Very Good)
<b>Scientific significance of the conclusion in this manuscript</b>	Grade A (Excellent)



Language quality	Grade A (Excellent)
Does this manuscript describe a study of the existing knowledge system?	Yes
Does this manuscript report a revolutionary innovation?	No
Does this manuscript report an unconventional innovation?	No
Conclusion	Accept
Peer-reviewer statements	Peer-Review: Onymous
	Conflicts-of-Interest: No

#### SPECIFIC COMMENTS TO AUTHORS

After a careful re-review of this article, I'm pleased to conclude that this article is now worth publishing. Moreover, I'm also glad that the concerns raised during the first round of revision have been addressed properly.



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