

**Review Form 1.7**

Journal Name:	<b>Asian Journal of Medicine and Health</b>
Manuscript Number:	<b>Ms_AJMAH_116490</b>
Title of the Manuscript:	<b>Antioxidant Protection Mechanisms in the Cardiovascular System</b>
Type of the Article	<b>Minireview Article</b>

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<p><b>Compulsory</b> REVISION comments</p> <p><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b> The subsections and structure of the manuscript appear appropriate</p> <p><b>5. Do you think the manuscript is scientifically correct?</b> Manuscript, to be scientifically correct</p> <p><b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p>This manuscript is highly significant for the scientific community as it summarizes the complex interplay between oxidative stress and cardiovascular health, offering valuable insights into potential therapeutic strategies.</p> <p>It effectively conveys the main focus of the article regarding the cardiovascular system's defense against oxidative stress through antioxidant mechanisms; thus, it appears suitable.</p> <p>The abstract provides a concise overview of the critical role of the cardiovascular system</p> <p>The manuscript's structure effectively covers the essentials of oxidant and antioxidant dynamics within the cardiovascular system</p> <p>Yes, the manuscript appears to be scientifically correct, with descriptions of oxidative mechanisms and antioxidant defenses in the cardiovascular system</p> <p>The references provided are generally sufficient and cover recent publications. However, to enhance the manuscript consider adding more recent systematic reviews or meta-analyses to offer comprehensive insights into the role of antioxidants in cardiovascular diseases.</p>	
<p><b>Minor</b> REVISION comments</p> <p><b>1. Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>Yes, the language and English quality of the article appear to be suitable for scholarly communications</p>	
<p><b>Optional/General</b> comments</p>	<ol style="list-style-type: none"> <li>1. kindly mention specific cardiovascular diseases or conditions where oxidative stress plays a significant role</li> <li>2. Briefly mentioning the consequences of oxidative stress on cardiovascular health could emphasize the clinical relevance of oxidative stress in cardiovascular diseases, including its association with disease progression, prognosis, and treatment outcomes.</li> <li>3. Discuss external factors which can contribute to oxidative stress and cardiovascular damage.</li> <li>4. Highlight the interplay between oxidative stress and inflammation, as chronic inflammation can exacerbate cardiovascular diseases.</li> <li>5. Highlight the role of inflammatory processes in ROS generation and its contribution to cardiovascular pathology.</li> <li>6. Discuss the role of endogenous antioxidants in scavenging ROS and protecting against oxidative damage.</li> <li>7. Mention emerging antioxidant compounds or supplementation, and their potential benefits on cardiovascular health.</li> <li>8. Discuss the role of transcription factors in regulating the expression of antioxidant enzymes and maintaining redox homeostasis. Also mention the role of antioxidants in modulating inflammatory pathways and endothelial function, thereby contributing to overall cardiovascular protection.</li> </ol> <p>Highlighting ongoing research or future directions in antioxidant-based therapies for cardiovascular diseases provides a forward-looking perspective, and discussing potential therapeutic interventions targeting oxidative stress, such as antioxidant-based drugs or lifestyle modifications will signify their implications for future cardiovascular management.</p>	

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	The manuscript is well-structured and informative, effectively addressing the impact of antioxidants on cardiovascular health, though it could benefit from a brief discussion on potential interactions or contraindications of antioxidant supplementation in certain populations or conditions.	
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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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