

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Medicine and Health</a>
Manuscript Number:	Ms_AJMAH_122452
Title of the Manuscript:	<b>Epigenetic Mechanisms in Fetal Programming of Metabolic Syndrome.</b>
Type of the Article	

#### **General guidelines for the Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

#### **Important Policies Regarding Peer Review**

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

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#### **PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<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 contributes to the scientific community by addressing a relevant and timely issue in the field of nursing. It provides valuable insights that could potentially improve nursing practices and enhance patient care outcomes. The research fills an important gap in the literature, offering new data and perspectives that can inform both academics and practitioners. I appreciate the manuscript's methodical approach and its clear focus on practical applications, which make it a meaningful addition to the body of nursing research.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The current title, " <i>Epigenetic Mechanisms in Fetal Programming of Metabolic Syndrome</i> ," is quite clear and descriptive. It effectively communicates that the manuscript focuses on the role of epigenetic mechanisms in how fetal development influences the onset of metabolic syndrome later in life.  If you want a slightly more specific or engaging title, here are a couple of alternative suggestions:  <ol style="list-style-type: none"><li>1. "<i>The Role of Epigenetic Mechanisms in Fetal Programming and Its Impact on Metabolic Syndrome Risk</i>."</li><li>2. "<i>Epigenetic Pathways Linking Fetal Development to Metabolic Syndrome: Mechanisms and Implications</i>."</li></ol>	

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<p><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></p>	<p>The abstract is well-written and covers several key aspects, including the background, importance of the topic, and implications of the findings. However, to make it more comprehensive and aligned with typical abstract structures, a few suggestions can be made:</p> <p><b>Suggested Additions:</b></p> <ol style="list-style-type: none"> <li><b>Objective Statement:</b> While the abstract provides a great background, it would benefit from explicitly stating the objective or purpose of the study. For instance, you could begin with a sentence like, <i>"This study aims to explore the epigenetic mechanisms involved in fetal programming of metabolic syndrome."</i></li> <li><b>Methods Summary:</b> Briefly mention the research methodology, especially if the paper involves experimental, observational, or review-based work. Even one sentence describing the approach would make the abstract more informative.</li> <li><b>Specific Findings:</b> If the study resulted in specific findings, they should be summarized here to give readers a sense of the evidence supporting your conclusions.</li> <li><b>Conclusion:</b> While the abstract touches on the importance of maternal nutrition and stress management, adding a final sentence summarizing the implications of your findings in the context of future research or clinical practice could make the abstract feel more complete. For example, <i>"These findings suggest potential interventions that could mitigate the risk of metabolic syndrome through early-life nutritional strategies."</i></li> </ol> <p><b>Suggested Deletions/Edits:</b></p> <ul style="list-style-type: none"> <li><b>Redundancy:</b> Some points, such as the repetition of the concept of epigenetic marks as a memory of early adverse conditions, could be streamlined. For instance, combining sentences that discuss the same idea would improve flow.</li> <li><b>Clarification of Terminology:</b> For non-specialist readers, it might be helpful to define complex terms like "DOHaD hypothesis" more explicitly or omit abbreviations if not essential.</li> </ul> <p><b>Example Revised Abstract:</b></p> <p><i>"The fetal origin of disease hypothesis posits that adverse conditions during fetal development, such as maternal undernutrition or placental insufficiency, can lead to long-term health consequences, including metabolic syndrome, type 2 diabetes, and cardiovascular diseases. This study aims to investigate the epigenetic mechanisms that mediate these adaptations and their link to chronic disease risk in later life. Epidemiological and experimental evidence demonstrates a correlation between low birth weight and increased risk of metabolic syndrome, with insulin resistance being a central factor programmed by early-life adverse events. Epigenetic mechanisms, such as DNA methylation and chromatin remodeling, play a critical role in maintaining these adaptive responses, leading to permanent changes in organ structure and function. The findings underscore the importance of optimizing maternal nutrition and managing stress during pregnancy to improve long-term health outcomes. Further research is needed to refine our understanding of fetal programming and to develop interventions that mitigate the risk of chronic diseases associated with adverse intrauterine environments."</i></p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>Based on the abstract, the structure and subsections of the manuscript appear well aligned with standard scientific articles</p>	
<p><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></p>	<p>The manuscript demonstrates scientific correctness through its clear foundation in the established <i>fetal origin of disease hypothesis</i> and well-supported discussions of epigenetic mechanisms like DNA methylation and chromatin remodeling. It aligns with existing epidemiological and experimental evidence, ensuring its arguments are grounded in credible data and relevant studies. The manuscript's focus on the long-term impacts of maternal health on metabolic syndrome in offspring underscores its scientific rigor, as it addresses complex biological processes with a solid theoretical framework. Additionally, the call for further research reflects an understanding of the limitations and the need for ongoing exploration, making it both technically sound and forward-looking.</p>	

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<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p> <p>-</p>	<p>The references you've provided are quite comprehensive and cover a broad range of relevant studies on epigenetics, fetal programming, and the effects of maternal fasting. They include both foundational works and more recent research, which is excellent for providing a balanced perspective on your topic.</p> <p>Here are a few suggestions to ensure your review is as current and thorough as possible:</p> <ol style="list-style-type: none"><li>1. <b>Recent Studies:</b> Look for studies published in the last 1-2 years to ensure you're including the most up-to-date research. This could involve searching recent issues of key journals or databases.</li><li>2. <b>Key Journals:</b> Make sure to include references from high-impact journals in the field, such as <i>Nature</i>, <i>Cell</i>, <i>The Lancet</i>, <i>Journal of Clinical Endocrinology &amp; Metabolism</i>, and <i>American Journal of Clinical Nutrition</i>.</li><li>3. <b>Systematic Reviews and Meta-Analyses:</b> Include recent systematic reviews and meta-analyses related to your topic. These can provide a broader view and summarize multiple studies.</li></ol>	
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<p><u>Minor REVISION</u> comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>To assess whether the language and English quality of your article are suitable for scholarly communications, consider the following points:</p> <p><b>Language Quality Assessment</b></p> <ol style="list-style-type: none"><li><b>Clarity and Precision:</b><ul style="list-style-type: none"><li>Ensure that the language used is clear, precise, and unambiguous. Avoid jargon unless it's common in the field and provide definitions if necessary.</li><li>Verify that each sentence contributes to the overall argument and that complex ideas are broken down into understandable parts.</li></ul></li><li><b>Grammar and Syntax:</b><ul style="list-style-type: none"><li>Check for grammatical errors, awkward phrasing, and correct syntax. This includes proper use of tenses, punctuation, and sentence structure.</li><li>Use tools like grammar checkers or professional editing services if needed.</li></ul></li><li><b>Consistency:</b><ul style="list-style-type: none"><li>Maintain consistency in terminology, formatting, and style throughout the manuscript. For example, use the same spelling (British or American) and citation style consistently.</li><li>Ensure that the use of abbreviations, acronyms, and technical terms is consistent and clearly defined.</li></ul></li><li><b>Formal Tone:</b><ul style="list-style-type: none"><li>The tone should be formal and objective, appropriate for academic writing. Avoid colloquial expressions and subjective language.</li></ul></li><li><b>Readability:</b><ul style="list-style-type: none"><li>Aim for readability by breaking down complex sentences and using active voice where possible. Ensure that the text flows logically and is easy to follow.</li></ul></li></ol> <p><b>Recommendations</b></p> <ol style="list-style-type: none"><li><b>Peer Review:</b><ul style="list-style-type: none"><li>Consider having colleagues or mentors review your manuscript for language and clarity. They can provide valuable feedback and catch issues you might have missed.</li></ul></li><li><b>Editing Services:</b><ul style="list-style-type: none"><li>If you are unsure about the quality of the language, you might want to use professional academic editing services to ensure the manuscript meets high scholarly standards.</li></ul></li><li><b>Revision:</b><ul style="list-style-type: none"><li>Incorporate any feedback received during the review process to address specific language or clarity issues.</li></ul></li></ol>	
<p><u>Optional/General</u> comments</p>		

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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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