

Review Form 3

Journal Name:	Asian Journal of Research in Animal and Veterinary Sciences
Manuscript Number:	Ms_AJRAVS_127562
Title of the Manuscript:	Antiviral Potential of Some Medicinal Plants against Newcastle Disease Virus
Type of the Article	

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PART 1: Review Comments

Compulsory 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>
<p>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.</p>	<p>This manuscript is significant for the scientific community as it addresses a relevant gap in knowledge within its field of study. It offers valuable insights or potential applications for further research and practice. The research appears well-structured with a clear hypothesis and methodology. It makes it a meaningful contribution to the existing body of literature. I particularly appreciate the authors' efforts to incorporate recent advancements or innovative approaches which enhance the manuscript's relevance and applicability.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Antiviral Efficacy of Neem, Garlic and Ginger Extracts on Newcastle Disease Virus in Poultry: Impact of Concentration and Heat Treatment</p>	
<p>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.</p>	<p>Your abstract is generally clear and provides a comprehensive overview of the study. However, there are a few areas where adjustments could be made to improve clarity and precision:</p> <p>Suggestions for Improvement:</p> <ol style="list-style-type: none"> 1. The phrase "evaluating the possibility of using medicinal plant extracts against this virus" could be more precise. It would be helpful to specify whether the study aimed to test the efficacy, mechanism, or potential for development of antiviral treatments from these plants. Consider rewording it for more specificity. 2. The methodology section provides useful details, but it might benefit from more context on the plant extracts and their preparation. For instance, how were the extracts prepared in standard procedures? A brief mention of this process could help the reader understand the reliability and reproducibility of the experiment. 3. The duration and location of the study are mentioned, but the year is a bit distant. If this is a critical study, consider whether you want to update the timing or emphasize the relevance of the study date (e.g., during a disease outbreak or a specific period in research). 4. The phrase "the antiviral activities of these extracts can vary due to the concentration and autoclaving of the extract" is a bit vague. You may want to clarify how concentration and heat treatment affect the antiviral activity (e.g., dose-dependent effect, loss of efficacy after autoclaving, etc.). 5. The conclusion is concise but could be strengthened by emphasizing the potential impact of the findings. Instead of just suggesting the plants as a "promising source", you could state how this contributes to the broader field or its potential practical application. 	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript structure is mostly appropriate but could benefit from some additional sections. Suggested sections:</p> <ul style="list-style-type: none"> • Comparison with previous research • Study limitations and future directions • Summary of findings and their potential impact 	
<p>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.</p>	<p>This manuscript appears scientifically robust and technically sound for several reasons.</p> <ol style="list-style-type: none"> 1. The methodology is well-structured, involving standard procedures for preparing plant extracts and testing their antiviral activity using a viable Newcastle disease virus strain. The use of embryonated chicken eggs for virus inoculation and hemagglutination assays is a widely accepted and reliable method for evaluating the efficacy of antiviral compounds, ensuring that the results are reproducible and valid. 2. Additionally, the study's focus on multiple plant extracts and the evaluation of factors such as extract concentration and heat treatment offers a comprehensive approach to understanding the potential of these plants as antiviral agents. <p>This combination of rigorous experimental design and relevant testing methods strengthens the scientific merit of the research.</p>	

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<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p>	<p>The references provided are generally sufficient for the manuscript's scope, as they cover the antiviral potential of plant extracts against Newcastle disease virus and related pathogens. However, many references are relatively old, with a significant number from the 1990s and early 2000s. While some foundational studies are essential, incorporating more recent references (from the last 5–10 years) would improve the manuscript's relevance and reflect the latest advancements in the field.</p>	
<p><u>Minor REVISION</u> comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The overall structure is coherent, and the key points are clearly communicated. However, some sentences could be refined for better readability, especially to avoid redundancy and improve the flow of information. For example, phrases like "During this study, all plant extracts were found effective against the Newcastle disease virus" could be more specific or reworded to better highlight the outcomes. Additionally, ensuring consistent use of scientific terminology and maintaining formal language throughout will further align the manuscript with academic standards.</p>	
<p><u>Optional/General</u> comments</p>	<p>The manuscript provides an interesting and practical exploration of the antiviral properties of medicinal plant extracts against Newcastle disease virus, which is highly relevant to the poultry industry. The study is well-structured and the findings are promising, potentially contributing to alternative strategies for managing viral infections in poultry. However, a few areas could be refined to enhance the overall impact of the work:</p> <ol style="list-style-type: none"> 1. The language could be polished to meet scholarly communication standards fully. While the content is clear, a professional language review would enhance its readability and presentation. 2. Ethical considerations, particularly regarding the use of live animals or embryos, should be explicitly stated to ensure compliance with international ethical standards. 3. The manuscript could include a more detailed discussion about how this study fits into the broader context of antiviral research and its practical applications in the field. <p>Based on the review process and the observations provided, I would suggest assigning an overall score of 8 to this manuscript. This falls under the Minor Revision category, indicating that the manuscript is generally well-conducted and scientifically robust but could benefit from addressing some points for improvement.</p>	

PART 2:

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

Reviewer Details:

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