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| Journal Name: | [**Asian Journal of Research in Animal and Veterinary Sciences**](https://journalajravs.com/index.php/AJRAVS) |
| Manuscript Number: | **Ms\_AJRAVS\_139246** |
| Title of the Manuscript: | **Effect of Turmeric (curcuma domestica) Powder and Multi-Enzyme Supplementation on Intestinal Villus Morphology in Broiler Chickens** |
| Type of the Article | **Short Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | There has been a global shift from the use of antibiotics in poultry production. This is because of antibiotic resistance which might develop in the bodies of the birds and subsequently transferred to human and the surrounding aquatic and terrestrial environment near the poultry site.  The authors of this manuscript were able to provide a good alternative to antibiotics. The study is a novel one | We thank the reviewer for appreciating the importance of this research. We agree that this study provides an important contribution in seeking natural alternatives to replace antibiotic growth promoters (AGP) that have been banned in Indonesia through Ministry of Agriculture Regulation No. 14 of 2017. The combination of turmeric and multi-enzyme that we investigated represents an innovative approach in utilizing local phytobiotics to support gut health and broiler chicken performance. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes | We thank the reviewer for confirming that the article title is appropriate for the research content. |
| 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. | Authors should include the following:  Design used in the study  Number of replicates used | We thank the reviewer for the suggestions. We have improved the abstract by adding the requested information:Research Design: This has been added in the "Study Design" section stating "The experiment was conducted using a Completely Randomized Design (CRD) with five dietary treatments and six replications per treatment."Number of Replications: This has been clarified in the "Methodology" section stating that the research used "five treatments and five replications" with a total of 300 day-old chicks divided into 5 treatment groups, each consisting of 60 birds (12 birds per pen with 5 replications).However, we found an inconsistency between the abstract mentioning "six replications" and the methodology mentioning "five replications". We will correct this consistency by using 5 replications according to the actual research design conducted. |
| Is the manuscript scientifically, correct? Please write here. | Yes, but   1. So much disjointed statement in the introduction which were poorly referenced too 2. authors should include how turmeric and enzyme supplements used in the study were obtained and prepared 3. they should detail what was given to each treatment group | 1. Introduction Improvement: We will revise the introduction section to improve coherence between paragraphs and add more comprehensive references. We will ensure that every statement is supported by relevant and current literature.2. Supplement Preparation: Supplement preparation information has been included in the "Materials and Methods" section:Turmeric Flour Preparation (Section 2.2.1):Fresh turmeric rhizomes were obtained from local marketsCleaned and sliced thinly (2-3 mm)Dried in an oven at 60°C for 48 hours until moisture content reached ±10%Ground using a hammer mill and sieved through a 60-mesh screenCurcumin content was analyzed using HPLC and contained 3.2% curcuminMulti-enzyme Supplement (Section 2.2.2):Used commercial multi-enzyme supplement (Enzyme-Pro®)Containing protease (10,000 U/g), amylase (8,000 U/g), cellulase (2,000 U/g), and lipase (1,500 U/g)3. Treatment Group Details: Treatment details have been included in section 2.2.3:T0 (Control): Basal diet without turmeric flour or multi-enzyme supplementT1: Basal diet + 0.5% turmeric flourT2: Basal diet + 1.0% turmeric flourT3: Basal diet + 0.5% turmeric flour + 0.1% multi-enzyme supplementT4: Basal diet + 1.0% turmeric flour + 0.1% multi-enzyme supplementThe basal diet composition has also been explained according to NRC (1994) standards for starter and finisher periods. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Yes | We thank the reviewer for confirming that the references used are adequate and current. |
| Is the language/English quality of the article suitable for scholarly communications? | Yes | We thank the reviewer for the positive assessment of the language quality in the manuscript. |
| Optional/General comments |  |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)*  Yes. The authors should provide the ethical clearance committee details and the clearance number | Thank you for the reviewer's comment regarding ethical issues in this study. We would like to clarify that this research does not require approval from an ethics committee for the following reasons:   1. Type of Research: This study is an experimental investigation on commercial poultry (broiler chickens) using natural feed supplements (turmeric powder and multienzyme) as feed additives. 2. Research Subjects: This research utilized commercial livestock (broiler chickens) for production purposes, not laboratory animals for biomedical research. The broiler chickens used were commercial strains (Lohmann) that are routinely raised for meat production. 3. Research Procedures: All research procedures followed standard good poultry management practices and did not involve treatments that could cause excessive stress or suffering to the animals. Tissue sampling was conducted at the end of the rearing period (day 35) in accordance with the normal broiler production cycle. 4. Treatment Safety: The materials used (turmeric powder and multienzyme) are natural feed additives that are safe and have been widely used in the livestock industry as alternatives to antibiotics. 5. Industry Standards: This research followed standard protocols in poultry nutrition and feed technology that do not require special ethical approval as they are part of commercial feed formulation development practices. 6. Animal Welfare Compliance: The study was conducted with due consideration for animal welfare principles and followed good livestock management guidelines in accordance with poultry industry standards.   This research was conducted while maintaining animal welfare principles and adhering to good livestock management practices according to standard poultry industry guidelines. |