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Peer-Review Report

# Peer Review of “Assessing the Influence of Seasonal and Climatic Variations on Livestock Tick Incidence in Tehran Province, Iran: Cross-Sectional Study”

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**Related Articles:**Peer-Review of <https://preprints.jmir.org/preprint/69542>Author Responses to Peer-Review Reports <https://bio.jmirx.org/2025/1/e72764/>Published Article <https://bio.jmirx.org/2025/1/e69542/>(JMIRx Bio 2025;3:e72765) doi: [10.2196/72765](https://doi.org/10.2196/72765)

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**KEYWORDS**

impact of climate; seasonal change; frequency; livestock; ticks; Tehran

*This is a peer-review submitted for the paper “Assessing the Influence of Seasonal and Climatic Variations on Livestock Tick Incidence in Tehran Province, Iran: Cross-Sectional Study.”*

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## Round 1 Review

**General Comments**

This paper [1] provides a detailed investigation into the distribution and frequency of tick species infecting livestock and poultry in Tehran province, Iran, with a focus on seasonal and climatic variation. The study highlights the significant economic and epidemiological impact of ticks as ectoparasites and pathogen vectors in livestock.

**Specific Comments****Major Comments**

1. “Material and methods - Sampling”: For the tick sampling in this manuscript, what method did you used in this study (ie, how did you decide which tick samples to include and which samples to exclude)? How did you ensure that the sample is representative of the true distribution of ticks in the study area? The distribution and frequency estimates from this sample might not be extended to the whole tick population if the sampling is biased.

2. “Material and methods - Sampling”: Could the author provide the rationale or justification of the choice of “*p*” and “*d*” in the sample size calculation?

3. “Discussion”: I really like the analysis of seasonal trend presented in Figure 4. Could the author elaborate more on this in the Discussion—the general seasonal trend across all species, the reason why you expect some species to be more abundant in warmer versus colder weather, and the implications from the public health perspective?

**Minor Comments**

1. Line 41: Spell out “\$.”

2. Line 44: Remove “(4)”—duplicated reference number.

3. Line 51: Remove “(9)”—duplicated reference number.

4. Line 85, “valid diagnostic keys”: Could the author be more specific about the “diagnostic key” being used? Adding a sentence to briefly describe the key would be great.

5. Lines 147-151, “two professional stereo microscopes...in the entomological research”: This part should belong to Methods section.

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## Round 2 Review

Thank you, author, for addressing all my comments and making all necessary changes to the manuscript. I do not have any more comments.

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**Conflicts of Interest**

None declared.

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**Reference**

1. Abbasi E. Assessing the influence of seasonal and climatic variations on livestock tick incidence in Tehran province, Iran: cross-sectional study. JMIRx Bio. 2025;3:e69542. [doi: [10.2196/69542](https://doi.org/10.2196/69542)]

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