

Review of: "The Efficacy of Copper Nanoparticles in Treating Viral Skin Infections: A Systematic Review and Meta-Analysis"

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Potential competing interests: No potential competing interests to declare.

Hello, dear editor,

I am very happy that I have been given the opportunity to review this article. This systematic review-meta-analysis article has been conducted with the aim of determining the effectiveness of copper nanoparticles on viral skin infections. I like the title of the article and its purpose and importance. However, the article is not scientifically well-written, and its importance and key points have not been expanded.

The following suggestions are provided to improve the article.

- 1- Please present the abstract in a structured way (background and purpose, method, results, conclusion, and keywords).
- 2- In the introduction, mention the prevalence and statistics of these skin infections in the world. In addition, mention their economic burden. Please highlight this issue and show its importance.
- 3- Have a paragraph before (Overview of Copper Nanoparticles: Properties, Mechanisms, and Applications) under the title of common treatments for Viral Skin Infections.
- 4- Also, mention the safe doses of copper nanoparticles because it is toxic in high doses.
- 5- Mention the results of several contradictory studies. The purpose of this work is to show that there is no consensus between the results. The innovation of this work is not clear.
- 6- Give a paragraph on the importance of systematic review and meta-analysis in this field, and finally, describe the purpose of this study.

I suggest not presenting the introduction in the form of content with specific categories. There should be a correlation between paragraphs.

Methodology

- 1- The inclusion and exclusion criteria must be provided accurately. (What studies are included? (study design), sampling method, target population, and)
- 2- The screening and selection steps must be written separately. (In the screening stage, the title and abstract of the studies are screened in accordance with the purpose of the research. In the stage of selecting the full text of the studies, they are evaluated by two researchers).
- 3- How are the cases of disagreement between two researchers in evaluating articles and extracting data resolved?
- 4- What has been your approach to missing data?

5- Attach the data extraction form. Mention in the text what data you have extracted?

6- Did you include case-control and intervention case studies in the tools used for quality assessment? How have you compared the studies in this category?

7- It has not been explained about the method of meta-analysis and its statistical indicators. The method of subgroup analysis is of serious importance.

Results

1- Provide forest plots, figures, and related graphs to describe your data.

Discussion

1- Secondary articles such as this study should provide a comprehensive overview of the current research and evidence on this topic, particularly specific examples of copper nanoparticles, their methods and results, and their implications, and discuss factors affecting the performance of copper nanoparticles such as particle size and morphology. In addition, compare and contrast the findings and conclusions of different authors.

What are the suggestions for future research?

Mention the limitations and strengths of your research.

Best regards,