

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.

The proposal of this Systematic Review and Meta-Analysis is very interesting, as skin diseases are the fourth most common cause of all human diseases, affecting almost one third of the world's population (Hay RJ, Johns NE, Williams HC et al. The global burden of skin disease in 2010: an analysis of the prevalence and impact of skin conditions. *J Invest Dermatol* 2014; 134: 1527-34) and given that Copper Nanoparticles have proven to be an effective antiviral agent, which represents a promising opportunity for the prevention of devastating infectious diseases such as cutaneous viral infections, conducting an SR and MA is well warranted.

However, the development of the present manuscript seems poorly elaborated, neither presenting descriptive information on the types and prevalence of the different viral skin infections in the introduction section, nor complete information on the morphology, size, synthesis methods, etc., of the copper nanoparticles that are being subjected to this systematic review. The methodology and results of this review are not presented in detail, and the lack of tables and images in the document makes the SR performed seem spare.

Finally, it would be appropriate for the manuscript to include a detailed discussion on safe doses for the use of copper nanoparticles, since it has been shown that in excessive amounts, they have shown risk of toxicity in humans and other living beings, as well as environmental hazards (Ingle, A.P., Duran, N. & Rai, M. Bioactivity, mechanism of action, and cytotoxicity of copper-based nanoparticles: A review. *Appl Microbiol Biotechnol* 98, 1001-1009 (2014). <https://doi.org/10.1007/s00253-013-5422-8>).

Further preparation of this manuscript would be a valuable scientific contribution, as the objective of the study is well stated.