

# Review of: "Comparing the Effectiveness of Aloe Vera Gel and 2% Chlorhexidine Gluconate Solution in Preventing Phlebitis Caused by Peripheral Vein Catheters in Hospitalized Patients"

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Potential competing interests: No potential competing interests to declare.

I appreciate the authors' work in comparing the effectiveness of aloe vera gel and 2% chlorhexidine gluconate solution in preventing phlebitis caused by peripheral vein catheters. However, some areas could benefit from revisions.

1. Using page and line numbering could have eased the reviewing process and led to more detailed comments. I recommend that the authors enable them.
2. The abstract could be more focused, with a clearer statement on the most significant findings. The purpose of comparing aloe vera and chlorhexidine treatments is generally clear, but summarizing key findings in the abstract reinforces the study's core message.
3. Keywords should be adjusted alphabetically and according to MeSH terms.
4. The authors should put more emphasis on the research gap in the introduction section.
5. Some of the sentences in the Methodology section are long and dense. It would improve clarity and readability to break down complex sentences, add brief subheadings such as "Participant Selection" and "Intervention Procedures," and provide the exact inclusion and exclusion criteria.
6. Some terms vary among the text. The authors used "2% Chlorhexidine solution" in one instance and "2% Chlorhexidine gel" in another. They should use consistent terminology and clarify the exact formulation that was used.
7. Mentioning the type of the injected drugs could also bring clarity in interpreting the results, as it can influence the incidence of phlebitis, regardless of the preventive methods employed.
8. The Results section could benefit from better connecting the numbers to the key study insights. The authors can consider providing visuals or graphs for a better manifestation of the results.
9. Tables should be cited in the text using the correct format (citation of Table 2 in the first paragraph of the Results section).
10. The first paragraph of the Discussion contains the overall findings of the study. The last sentence of this paragraph

states that “the frequency of phlebitis in the aloe vera group was significantly higher compared to the control group,” which is not consistent with the reported results.

11. Linking findings more explicitly to the study’s objectives and the previous literature could add clarity in the discussion section. Also, each paragraph should provide a conclusive sentence, highlighting the main points discussed.

12. This article can also benefit from major grammatical corrections (for example, the phrase “they got.” in the methods section of the abstract). Removing the unnecessary jargon and redundant adverbs in the sentences would enhance the coherence and readability of the article.