

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.

The title is very interesting. There are some questions I would like to have answers to from the author/s' side.

First of all, which kind of drug was injected intravenously for the participants in this research? Were these drugs the same for all the participants? If not, how did you match them to have a reliable result?

Was the 3-day intravenous injection enough to compare the results in the 3 study groups in terms of phlebitis formation?

It seems there would be 4 tables, as in the last sentence of the "Results" section it was mentioned in a parenthesis, but I could see only one table.

"Discussion":

I think the "Discussion" part needs major revision. For example, in this sentence, "The data from the present study also revealed that chlorhexidine solution is effective in reducing the incidence of phlebitis, but there was no statistically significant difference," it is not mentioned which substance chlorhexidine was compared with that showed no statistically significant difference.

And this sentence, "Pourmohammadi et al. (2016) examined the effect of 2% chlorhexidine gluconate solution on the prevention of phlebitis caused by peripheral vein catheters and found no statistically significant difference," needs revision because I do not know if there was any comparison between chlorhexidine and other materials or not.

And this sentence, "Contrary to the present study, the findings showed that the participants who used chlorhexidine solution showed a statistically significant difference compared to the control group and the incidence of phlebitis was lower in the chlorhexidine group," raises the question of why the authors used "contrary to the present study" when in the present study the results showed that the use of chlorhexidine and aloe vera could lessen the incidence of phlebitis, as the author/s mentioned in the first paragraph of the "Discussion."

I think the "control group" must be omitted from this sentence: "The findings suggested that both aloe vera gel and chlorhexidine solution support treatments are effective in reducing the incidence of phlebitis in the intervention and control groups,"



Data considering the underlying diseases of all participants should be mentioned. Was there any underlying disease other than hypertension?

Thank you.