Reviewer’s report

Title: Diaper dermatitis: a survey of risk factors in Thai children aged under 24 months

Version: 0 Date: 04 Feb 2019

Reviewer: Julia Winkler

Reviewer's report:

Comments on Abstract:

- The second sentence in the section "Results" section misses the word "highest": "The HIGHEST prevalence was found in subjects (...)"

Comments on "Materials and Methods"

- This section is lacking a detailed report about the statistical analyses applied. For example, it is unclear if the multivariate regression was corrected for multiple testing.

- Page 3, line 49-53: "Diaper Dermatitis was made from parental reporting included (..)." This sentence should be rephrased (grammar does not make sense)

Comments on "Discussion"

- Page 5, line 47-52: "This result can be simply explained by the fact that the participants were enrolled from the well baby clinic (...) leading to a high prevalence in this age group": The recruitment of participants from the Baby clinic explains the high number of cases in the age group 1-6 months, but not a higher prevalence of diaper Dermatitis within this group.

- Page 6, line 24-29: "Thus, more than six changings per 24-hour period but few changings during the night is especially a risk factor among this population": This sentence should be rephrased, because one could understand that more than six changings per 24h period are a risk factor for diaper Dermatitis. The authors probably wanted to state, that frequent diaper changings during the daytime do not compensate for fewer changings during the night.

- Page 6, line 51-57: "Although a Cochrane Review (..) their use is recommended for all infants": The authors did not explain why the use of disposable diapers is recommended, even though the mentioned Cochrane Review could not find any evidence to support or refuse the use of disposable diapers.
- Page 8, line 18-22: "However, there may be other as the unknown factors (..)". This sentence should be rephrased (grammar)

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

No

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Yes

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

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