Reviewer’s report

Title: Group B streptococcus is the most common pathogen for septic arthritis with unique clinical characteristics: Data from 12 years retrospective cohort study

Version: 0 Date: 01 Apr 2019

Reviewer: Thomas Hügle

Reviewer's report:

This is a nice retrospective analysis of septic arthritis cases in Thailand. Apart from the nice didactical value of this manuscript, there are some interesting scientific aspects, such as the higher incidence of septic arthritis during the rainy season. There are some limitations, which need to be addressed.

1. Are all cases native joint septic arthritis? Are there no prosthesis? Please specify.

2. We grouping in GBS and other GBS group? Staph aureus should be analyzed as an own group. This is e.g. important to know for septic arthritis, which occurred after prior intra-articular injection.

3. The analysis concerning complications is interesting and merits more details +/- a figure. Are deaths Staph aureus cases? What is a risk factor for death? Blood culture? Staph aureus?

4. Rainy season: please specify for which non GBS bacteria the incidence is higher during rainy season. In the discussion it is stated: "we hypothesised that the moist or cold weather could promote the growing and spreading of GBS". This statement is a bit weak. Please discuss more in detail.

5. Line 117: "Bacterial septic arthritis was more commonly found in rainy season in both groups with more common in GBS septic arthritis than other bacterial septic arthritis".

Please rephrase. This sentence is not clear.

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

Yes
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 am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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