Reviewer's report

Title: A new non-invasive approach based on polyhexamethylene biguanide increases the regression rate of HPV infection

Version: 2 Date: 5 May 2012

Reviewer: Yoichi Aoki

Reviewer's report:

In this study, the authors performed a long-term treatment with a PHMB-based gynecological solution on patients diagnosed with HPV infection to evaluate the effectiveness in increasing the spontaneous regression rate. The authors demonstrated a significant difference in the regression rate (90% Monogin group vs. 70% control group) at the end of the study. It is a very interesting RCT.

Major comments:
1. The authors should show the patient characteristics in both groups. Is there any difference of the background of these 2 groups?
2. Do the authors have data on vaginal bacterial culture, including chlamydia? How do the authors think about the association between HPV infection and other bacterial infection?
3. Kines et al. reported the mechanism by which an initial step of HPV infection occurs. Initially, HPV binds to HSPG on the basement membrane. Do the authors have any comments on it? [Kines RC et al. Proc Natl Acad Sci, USA 106; 20458: 2009.]

Minor comments
1. Is Table 1 necessary?
2. The authors should indicate the results of statistical analyses on Figures 1 and 2.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

No. I have no conflict of interest to declare.