

Asian Pacific Journal of Tropical Medicine

journal homepage: www.apjtm.org



doi: 10.4103/1995-7645.268165

Impact factor: 1.77

Clinical effectiveness of live preparation of lactobacillus in treatment of bacterial vaginosis in pregnancy: A meta-analysis

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Objective: To evaluate the clinical effectiveness of live preparation of lactobacillus in treatment of bacterial vaginosis in pregnancy.

Methods: Randomized controlled trials of live preparation of lactobacillus in the treatment of bacterial vaginosis in pregnancy were collect by searching PubMed, Web of Science, OVID, CNKI, WanFang, VIP, CBM and Elsevier databases. Quality of the included trials were evaluated by two researchers independently, and data were extracted according to Cochrane systematic evaluation. RevMan 5.3 software was used for meta-analysis.

Results: Twenty-one randomized controlled trials involving 2 930 patients were included, which showed that there was significant difference in the clinical effectiveness between vaginal medication of live preparation of lactobacillus and vaginal medication of metronidazole [total effective rate ($RR=1.05$, 95% CI : 1.02-1.07, $P=0.000$ 4)]; significant differences were found in premature delivery rate ($RR=0.49$, 95% CI : 0.32-0.73, $P=0.000$ 4), premature rupture of membrane rate ($RR=0.54$, 95% CI : 0.38-0.77, $P=0.000$ 7), infant of low-birth weight rate ($RR=0.45$, 95% CI : 0.22-0.94, $P=0.03$), puerperal infection rate ($RR=0.60$, 95% CI : 0.39-0.94, $P=0.03$) between the two groups.

Conclusions: Vaginal medication of live preparation of lactobacillus was more clinically effective than vaginal medication of metronidazole for bacterial vaginosis in pregnancy. Live preparation of lactobacillus is associated with a lower premature delivery rate, a lower premature rupture of membrane rate, a lower low-birth weight rate and a lower puerperal infection rate.

Keywords: *Enterocytosoon bieneusi*; Genotype; ITS region; Macaca; Zoonotic


Article history:

Received 6 September 2019

Revised 13 September 2019

Accepted 25 September 2019

Available online 7 October 2019

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Foundation project: It was supported by Research Foundation of Hainan Medical University (No. HY2018-14).

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How to cite this article: Li XZ, Li MJ, Wang YF, Huang HR, Cao WT. Clinical effectiveness of live preparation of lactobacillus in treatment of bacterial vaginosis in pregnancy: A meta-analysis. Asian Pac J Trop Med 2019; 12(Suppl 1): 38.