

limited Pages and Expanded Featur

women

doi:10.1136/sextrans-2013-051184.0519

1,J E Balkus, 3G Manguro, 3A Abdalla, 3C Ngacha, 3J Shafi, 3J Kiarie, 3W Jaoko, 2,3R S McClelland. *1Fred Hutchinson Cancer Research Center, Seattle, WA, United States; 2University of Washington, Seattle, WA, United States; 3University of Nairobi, Nairobi, Kenya* 

Background Vaginal washing has been associated with an increased risk of bacterial vaginosis (BV) and a decreased likelihood of vaginal Lactobacillus colonisation. We sought to determine whether a lower prevalence of Lactobacillus colonisation in women reporting vaginal washing was independent of the effect of BV. Methods We conducted a cross-sectional study of 273 HIV-negative female sex workers enrolled in an open cohort study in Mombasa, Kenya. Vaginal washing and sexual risk behaviours were assessed using structured face-to-face interviews. Lactobacillus species were detected by plating vaginal swabs on both Rogosa and Columbia 5% sheep blood agars. We used tetramethylbenzidine agar subculture to assess H 2O2-production. BV was detected by Gram stain. Log-binomial regression was used to assess correlates of Lactobacillus colonisation, including vaginal washing, controlling for BV. **Results** Two-hundred eighteen participants (80%) reported vaginal washing in the past week (median frequency per week = 14; range 1635). Lactobacillus species were detected in 50/218 (23%) participants who reported vaginal washing versus 23/55 (42%) who did not report this practise. Similarly, H2O2-producing Lactobacillus species were detected in 13/218 (6%) participants who reported vaginal washing versus 10/55 (18%) who did not. After controlling for age, unprotected sex, and BV, vaginal washing was associated with a lower likelihood of any Lactobacillus (adjusted relative risk [aRR] = 0.55; 95% configure interval [CI] 0.3760.81) and H2O2producing Lactobacillus (aRR = 0.33; 95% CI 0.1560.73). Conclusion Vaginal washing was associated with a lower likelihood of any Lactobacillus and H2O2-producing Lactobacillus species detected by culture. The results of our adjusted analysis suggest that the effect of vaginal washing on lactobacilli is not mediated

entirely through the higher prevalence of BV associated with this



Your complimentary use period has ended. Thank you for using PDF Complete.

portant to determine whether rove vaginal health by promoting vaginal colonisation

with Lactobacillus.