In vitro influence of curcuma on vaginal lactobacillus and sperm motility parameters

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To explore the in vitro influence of curcuma on vaginal lactobacillus and sperm motility parameters. Methods: The cytotoxicity of curcuma to foreskin keratinocytes was tested by XTT. The inhibition of curcuma to lactobacillus was tested by TPY liquid medium method. Human sperm was treated with 10 mg/mL curcuma and the sperm motility parameters were tested by CASA-SS 3.0. Results: The MIC of curcuma to lactobacillus was (12.5 ± 1.2) mg/mL. The sperm activity, A activity, A+B activity, VSL and VAP were decreased by curcuma. The LN and WOB were increased by curcuma. Conclusion: Curcuma could decrease the sperm activity in vitro.

[KEY WORDS] Curcuma; Contraception; Vaginal lactobacillus; Sperm