

Inhibition effect of honey on the adherence of Salmonella to intestinal epithelial cells in vitro.

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Abstract:

The aim of the study was to evaluate the antimicrobial effect and the ability of honey to prevent *Salmonella enteritidis* adhering to intestinal epithelial cells in vitro. Antimicrobial activity was demonstrated. Bacterial adherence was assayed using *S. enteritidis* cells that had been incubated first with honey and then with the intestinal epithelial cells. Results showed that honey at dilutions of up to 1:8 reduced bacterial adherence from 25.6 \pm 6.5 (control) to 6.7 \pm 3.3 bacteria per epithelial cell ($P < 0.001$)