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In-vitro susceptibility of methicillin-resistant *Staphylococcus aureus* to honey

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Abstract

Wound infections caused by methicillin-resistant *Staphylococcus aureus* (MRSA) is becoming much complicated and costly to treat as **antimicrobial** resistance is quite common. Twenty five **MRSA** strains isolated from infected wounds and three ATCC reference strains were evaluated for their susceptibility to locally produced black seed (*Nigella sativa*), beri (*Ziziphus Jujuba*) and shain honey (*Plectranthus rugosus wall*) by agar incorporation assay. Medically graded manuka honey (UMF 21⁺) was included as control. Locally produced black seed honey inhibited all clinical isolates at mean MIC of 5.5% (v/v), whereas manuka honey at mean MIC of 4.4% (v/v). The other two locally produced honey; beri and shain honey inhibited these isolates at 6.4% and 10.4% (v/v) respectively. The result of the study has demonstrated that **indigenous** black seed honey has comparable antibacterial activity to manuka honey and thus offers a good new addition to the existing honey resource for the treatment of wound infections.

Keywords

Wound infection Honey Antibacterial activity Methicillin-resistant *Staphylococcus aureus* Black seed honey