

Investigation of some factors correlated with antibacterial activity of honey

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Honey was found to have a curing effect on bacterial species known to cause wound infections. The aim of this research is to study some of the factors correlated with the antibacterial activity of a variety of Saudi honey. Honey samples different in floral source, geographic location and season of production were used. The tested organisms represented both gram positive and gram negative bacteria causing wound infection. A zone of complete inhibition of all bacterial species was seen with honey types Samra(S-W), Samra(W-S), Saha(W-S), Samra(S-S), Sidir(S-S), and, Sidir(S-W) and a larger zone of partial inhibition of growth was seen with all tested honey types.

It can be concluded that osmolarity is involved in the antibacterial activity of the honey. Acidity might be regarded as being of primary importance. On the other hand hydrogen peroxide was found to play a major role in the bacterial activity of honey.

Key words: Complete inhibition-Antibacteria effect-Wound infections-Partialinhibition.

