## عنوان مقاله:

Antibacterial Effects of Azerbaijan honey on Pseudomonas aeruginosa biofilm

## محل انتشار:

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## خلاصه مقاله:

Background and Aim: Pseudomonas aeruginosa is an opportunist pathogen. The infections due to biofilm are difficult to eradicate with current antimicrobial agents. In this study, we investigated the antimicrobial and antibiofilm activity of the honey against \* Pseudomonas aeruginosa isolates. Materials and Methods: To assess antimicrobial activity, the MIC and MBC assays were used. Antibiofilm activity of tested honey evaluated using the MTP, Congo Red Agar, and tube methods. Results: The initial screening demonstrated that \* of \* A \* Pseudomonas aeruginosa isolates were biofilm-producer. The honey exhibited a significant antibacterial activity against the planctoninc form of Pseudomonas aeruginsa. The MIC of Polak, Baboneh and Yonjeh honeys against Pseudomonas aeruginsa were \* ۶. ۲۵–۲۵, ۱۲.۵–۲۵, and ۱۲.۵–۲۵% w/v, respectively. The results indicated that the tested honey also had significant antibiofilm activity. Conclusion: Antibacterial effects of honey are observed in both planctonic and biofilm forms. However, higher concentrations of honey have needed to inhibit biofilm. These findings indicate the potential antimicrobial of Azerbaijan honey and, it can be used in the treatment of bacterial infections diseases due to Pseudomonas aeruginosa

كلمات كليدى:

Honey, Biofilm, Pseudomonas aeruginosa, بيوفيلم, عسل, پسودوموناس ائروژينوز

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