

عنوان مقاله:

ANTIBACTERIAL EFFECTS OF METHANOL EXTRACT OF DIFFERENT PARTS OF QUERCUS PERSICA
AGAINST MRSA AND MSSA CLINICAL ISOLATES

محل انتشار:

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خلاصه مقاله:

Background and Aim: Anti-bacterial treatment through drugs and antibiotics, along with the rapid development of drug resistance has been associated with. Study on antibacterial activity and herbal extracts have shown that plants have provided potential sources of antimicrobial agents. Methods: The present study describes the anti-bacterial activity of methanol extract of *Quercus persica* (fruit and fruit hull) from Fagaceae family on 20 methicillin resistant and 20 methicillin sensitive *Staphylococcus aureus* isolates. Methanol extracts were prepared by maceration method, filtered and concentrated by rotary evaporator apparatus. Different concentration of each extract were prepared in dimethyl sulfoxide: methanol (1:1 v/v) and antibiogrammed on the isolates by agar well diffusion method. Plates were incubated in 37°C for 24 hours and zone of inhibition was measured in millimeter. Results: According to antibiogram test, all of *Staphylococcus aureus* isolates were sensitive to the used extract with different MIC. 80 mg/ml concentration of Fruit methanol extract was effective on all MRSA isolates with zone of inhibition 16-20 mm. MIC value of Fruit methanol extract was 0.3mg/ml. 80 mg/ml concentration of Hull Fruit methanol extract was effective on all MRSA isolates with zone of inhibition 14-18 mm. MIC value of hull fruit methanol extract was 0.3mg/ml. Conclusion: According to the obtained results, we expect to be able to use the extracts against *Staphylococcus aureus* resistant to methicillin in controlling the infections or as preservatives in food sciences and in the next step separating of effective substances were suggested.

کلمات کلیدی:

Staphylococcus aureus, Antibacterial, Methicillin, Resistant

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