

عنوان مقاله:

Evaluation of antibacterial activity of Essential Oil of *Ziziphora clinopodioides* and *Achillea wilhelmsii* on antibiotic-resistant strains of *Staphylococcus aureus*

محل انتشار:

نخستین همایش ملی یافته های نوین میکروبیولوژی (سال: 1394)

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نویسندگان:

Abolfazl Jafari Sales - *Young Researchers and Elite Club, Ahar Branch, Islamic Azad University, Ahar, Iran*

Haedeh Mobaiyen - *Department of Microbiology, College of Medicine, Tabriz Branch, Islamic Azad University, Tabriz, Iran*

Reza Fathi - *Medical physiology and post doctorate follow at noroendocrine at marmara university*

خلاصه مقاله:

Introduction and aim: Infections caused by antibiotic-resistant strains of *Staphylococcus aureus* are mainly hospital-based prevalence is increasing in many countries; Hence efforts taken to find new compounds as an alternative to antibiotics. This study is done to evaluate the antimicrobial effects of Essential Oil of *Ziziphora clinopodioides* and *Achillea wilhelmsii* on against resistant clinical strains of *Staphylococcus aureus*. Material and methods: After collecting plants and validate its scientific name by botanists of Agricultural Organization and after drying in shade, Essential Oil of *Ziziphora clinopodioides* and *Achillea wilhelmsii*, extracted with steam distillation method by Clevenger and antimicrobial effects of Essential Oil by well diffusion on above mentioned bacteria were interpreted. Amount of Essential Oil were injected to gas chromatography linked to mass spectrometry (GC / Ms), and the amount and type compounds of the Essential Oils were identified. Results: The results showed that the extracted essence Essential Oil from the *Ziziphora clinopodioides* and *Achillea wilhelmsii* has bactericidal effect. In the obtained results by GC/Ms chromatography, in *Ziziphora clinopodioides* and *Achillea wilhelmsii* Essential Oils, 22 and 18 compounds, were identified respectively. Conclusion: The results of this study show that can be taken *Ziziphora clinopodioides* and *Achillea wilhelmsii* in herbals groups with antibacterial properties and after evaluating their effects in vivo condition and to identify the active ingredients, as an alternative to synthetic drugs that commonly used to treat infections are used.

کلمات کلیدی:

Antibacterial effects, Essential Oil , *Staphylococcus aureus*

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