### عنوان مقاله:

Adhesion Factors and Association with Antibiotic Resistance among Clinical Isolates of Staphylococcus aureus

### محل انتشار:

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#### خلاصه مقاله:

Background and Aims: Staphylococcus aureus adhesion factors can reinforce the pathogenicity of the bacteria. The aim of this study was to identify adhesion factors among clinical isolates of methicillin-resistant S. aureus and determine the association between these factors and antibiotic resistance patterns. Materials and Methods: In an analytical study from October Yo19 to April Yo19, WoY clinical isolates of S. aureus were confirmed by biochemical tests. Methicillin-resistant strains were determined by phenotypic methods. Multiplex PCR method was used to identify adhesion factors. In this way, bbp, cna, eno and ebpS genes were identified among different isolates. Results: A total of ٣٠٢ clinical isolates of S. aureus were isolated from different clinical samples including wound, blood, urine, trachea, catheter, swabs. Of ۳οΥ isolates, ۱۲۳ were methicillin resistant and Υ٣.۵٣% and ۷۵.Υ% of the isolates were resistant to erythromycin and penicillin, respectively. The incidence of resistance genes among among methicillin resistant S. aureus isolates were as follows: bbp (1º isolates: 5.٨٩%), cna (5 isolates: ١٣.۴%), eno (٢٨ isolates: ١٩.٣١%) and ebpS (١٩ isolates: ١٣.١%),. There was a significant correlation between the antibiotic resistance patterns and the frequency of adhesion factors (P≤o.oa). Conclusions: According to the results, there was a significant correlation between adhesion .factors and antibiotic resistance among methicillin-resistant isolates of S. aureus

# كلمات كليدى:

,Antibiotice Resistance, Methicilin Resistance of Staphylococcus aureus, Adhesion factors مقاومت دارویی, استافیلوکوکوس مقاوم به متی سیلین, عوامل چسبندگی

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