**Antibacterial activity of *Tribulus terrestris* on the pathogenic genes expression of**

***Enterobacter* spp**

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**Introduction:** With the emergence of multidrug resistance (MDR) bacteria, it is necessary to find novel antimicrobial agents for treating such bacteria. Natural products are a rich source of bioactive compounds*. Tribulus terrestris* L*. (Zygophyllaceae)* is a popular plant in traditional European and Chinese folk medicine .. Considering the importance of herbal products as treatments for infectious diseases, the antimicrobial activity of aqueous and ethanolic extracts of the. *Tribulus terrestris* from Guilan province, Iran on MDR *Enterobacter* isolates from patients suffering from UTI were examined in the current. **Material and methods :** Aqueous and alcoholic extracts of *Tribulus terrestris* were prepared using conventional methods. Bacteria were isolated from urine samples of patients with urinary tract infections (UTIs). Antimicrobial activity was evaluated by well diffusion method, MIC determination, antibiofilm assay. After observing the antimicrobial effect of the extracts, the effect of the extracts was analyzed on pathogenesis genes expression of , *Enterobacter* using Real Time PCR.. All the tests were repeated three times and the data were reported as mean ± SD. The data were statistically analyzed using One-way analysis of variance (ANOVA) and differences among the means were determined at P ≤ 0.01. **Results:** The antimicrobial tests showed that the extracts have significant antimicrobial effects. Also, molecular analysis was confirmed that medium to high concentrations of extracts significantly reduce the expression of pathogenic genes.**Conclusion:** The extracts of *T*. *terrestris (TT)* are good candidates to use in the treatment of UTI due to MDR  *Enterobacter*; although they need more investigation.

**Key word:** *Tribulus terrestris*, antimicrobial ,  *Enterobacter*