

عنوان مقاله:

Identification of ESBLs and Colistin Resistance Genes in Escherichia coli Isolated from German cockroaches by Dot – Blot Method

محل انتشار:

بیست دومین کنگره میکروب شناسی ایران (مجازی) (سال: 1400)

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خلاصه مقاله:

Background and Aim : Recently, multidrug-resistant (MDR) Escherichia coli is one of the main causes of nosocomial infections especially in intensive care units which Prevents the spread of drug resistance. Cockroaches are creatures found in most places. Then, it is not unexpected to find these insects in health care spaces. The presence of these insects in the hospital can carry various infections in addition to their pathogenicity. **Methods :** This study was performed on hospital cockroaches. First of all, cockroaches were trapped and brought to the laboratory in sterile containers. Samples were taken from their gastrointestinal tract and Escherichia coli was obtained after various tests. Then, their antibiotic resistance pattern was determined by using antibiotic discs. **Results :** ۳۱ Escherichia coli were isolated from ۱۰۹ caught cockroaches. By determining the pattern of antibiotic resistance, Ampicillin and Colistin had the highest and lowest resistance frequencies, respectively. DNA Flow Chip kit was identified in order to determine the genes of broad-spectrum beta-lactamase resistance genes, ۸ isolates had CTX gene and one isolate had SHV genes. **Conclusion :** The results indicate that the prevalence of strains with resistance to antibiotics at hospital, the insects such as cockroaches should be taken seriously to prevent the spread of Escherichia coli infections

کلمات کلیدی:

German cockroaches, ESBLs ,Colistin ,Dot -blot, Escherichia coli

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