# سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها گواهی ثبت مقاله در سیویلیکا CIVILICA.com



#### عنوان مقاله:

Prevalence and Antibiotic Resistance Pattern of Diarrheagenic Escherichia coli Pathotypes Among Children under & Years in Khuzestan, Iran

### محل انتشار:

میکروبیولوژی بالینی و عفونت, دوره 10, شماره 2 (سال: 1402)

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#### خلاصه مقاله:

Background: Diarrhea is a life-threatening cause of high mortality, especially among children living in areas with poor sanitation. Enterobacteriaceae is one of the serious causes of bacterial diarrhea in children and adults. In this family, infection with diarrheagenic Escherichia coli (DEC) pathotypes in children is associated with extensive health risks and is of particular importance. In this study, we compared the distribution of pathotypes, epidemiological patterns, and antibiotic resistance of DEC in two diarrheal and non-diarrheal groups among children less than a years. Methods: In this study, "o" stool samples were collected from patients admitted to Golestan hospitals in Ahvaz and Dr. Ganjavian in Dezful, Khuzestan. To this end, Yol samples from children with diarrhea (case group) and IoY samples from healthy children (control group) were examined. DEC was characterized by polymerase chain reaction (PCR) for each stool sample, and DEC isolates were tested with antibiotic resistance tests against different antibiotic agents to identify the prevalence of multidrug-resistant (MDR) strains in both groups. Results: DEC was found in YF% (FA out of Y00) of the children with diarrhea and ٣.٨% (f out of ١٠٣) of the healthy children. Enteroaggregative E. coli (EAEC) was the DEC most frequently associated with diarrhea (٣٢ out of ۴٨, ۶۶.۶%), which was followed by enteropathogenic E. coli (EPEC) ΥΥ.9% (1) out of ۴λ, ΥΥ.9%), and enterotoxigenic E. coli (ETEC) (Δ out of ۴λ, 10.5%) from children with diarrhea. Four DEC isolates were identified in healthy children: EAEC (Y out of F, Δο%) and EPEC (Y out of F, Δο%) in the healthy group, but no enteroinvasive E. coli (EIEC) or enterohemorrhagic E. coli (EHEC) strains were found in both groups in this study group. In general, DEC isolates exhibited high resistance to ceftriaxone and cefotaxime, and "" (۶۳.۴%) isolates of DEC were MDR. Conclusion: A high prevalence of DEC strains was observed in the group of children with diarrhea and healthy children. Accordingly, further attention should be paid to continuous monitoring of the prevalence and pattern of antibiotic resistance of diarrheal bacterial isolates among children and the whole .community

کلمات کلیدی:

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