

## عنوان مقاله:

Simultaneous Detection of Integrase and Antibiotic Resistance Genes within SXT Constin in *Vibrio cholerae* O1 El Tor Strains Isolated from Iran Using Multiplex-PCR

## محل انتشار:

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## خلاصه مقاله:

Objective(s) Amongst the various antibiotic resistant elements in *Vibrio cholerae*, SXT constin (SXT-C) is important. We were going to design a quick method for determination of antibiotic resistance gene pattern in SXT-C. Materials and Methods Ninety four *V. cholerae* O1El Tor isolates were used in this study. Antibiotic susceptibility testing, multiplex PCR amplification of SXT-C containing *dfrA1*, *sulIII*, *strB* and the *int* in a multiplex PCR were done. Results Results of our study showed that 92 (97.8%) out of 94 isolates were positive for all above genes. Multiplex PCR results correlated with the antibiotic susceptibility data obtained by using disc diffusion assay. Conclusion Using this multiplex PCR, it would be easily possible to demonstrate the presence of antibiotic resistance in SXT-C which, in turn, allows for a suitable treatment in cholera patients causing reduction in the mortality and morbidity rate of the infected individuals.

## کلمات کلیدی:

antibiotic resistance pattern, Integrase, Multiplex-PCR, SXT constin, *Vibrio cholerae*

## لینک ثابت مقاله در پایگاه سیویلیکا:

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