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AN INVESTIGATION ON PATHOGENIC VIBRIOS DISTRIBUTION IN DOMESTIC WASTEWATER

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Abstract:

Municipal wastewater is one of the most important pollution sources for water supply resources. Identification and enumeration of pathogenic agents particularly pathogenic Vibrios are beneficial for controlling and prevention planning of the infectious diseases. This research was carried out to identify the distribution of the recognized pathogenic Vibrios with emphasizing on identification of *Vibrio cholera* in the wastewater of Kermanshah city western Iran in 2002. The method of study was cross sectional descriptive. There were 8 discharge outlet domestic wastewaters, which had been chosen as sampling sites. Samples were collected weekly in randomized manner in daytime. Three hundred and thirty nine samples were collected and analyzed. The results indicated site 7 with 5 positives, sites 4 and 8 each with 3, site 5 with 2, sites 2, 3 and 6 each with one positive, whereas, there was not any *Vibrio* detected in site 1. The most positive samples were seen in spring, late summer and early autumn. The positive results were detected on May, June, September, and October. Among positive samples, *Vibrio parahemolyticus*, could be regarded based on differentiation tests. *Vibrio cholera* was not seen. It seems that the presence of *Vibrio parahemolyticus* was due to some food store deal with distribution of seafood. Hence it is suggested that this relationship could be considered through analytical study using PCR for detection of Vibrios.

Keywords:

Pathogenic vibrios

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