

عنوان مقاله:

Evaluation of the Effect of a Number of Commercial Disinfectants on Pseudomonas aeruginosa Isolates Obtained from Human Infection Cases

محل انتشار:

فصلنامه میکروب شناسی پزشکی ایران، دوره 14، شماره 2 (سال: 1398)

تعداد صفحات اصل مقاله: 16

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خلاصه مقاله:

Background: Disinfectants have important clinical applications. Antibiotic resistance of some hospital pathogens such as Pseudomonas aeruginosa has led to the use of disinfectants. In the present study, the effects of four commercial disinfectants; Hydrocare, Benzalkonium Chloride, Cetrimide-C, and Vico sience on Pseudomonas aeruginosa isolates were investigated. Materials & Methods: The dilutions of four tested disinfectants recommended by the manufacturer were prepared and their effects on twelve Pseudomonas aeruginosa isolates were evaluated at five, ten, fifteen minutes after the bacterial inoculation. Results & Discussion: Hydrocare and Benzalkonium Chloride inhibited the growth of all strains while Cetrimide-C disinfectant did not inhibit the growth of bacterial strains at any time. The Vico sience completely inhibited the growth of bacterial strains at ten and fifteen minutes after the addition of disinfectant. Since the recommended dilutions by the manufacturer were prepared and evaluated in the present study, the inefficiency of some of the disinfectants indicated that the evaluation and dilution assay of the disinfectant is necessary prior to routine use in laboratories or health centers.

کلمات کلیدی:

,Disinfectant, Hydrocare, Benzalkonium Chloride, Vico sience, Cetrimide- C, Pseudomonas aeruginosa
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لینک ثابت مقاله در پایگاه سیویلیکا:

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