

عنوان مقاله:

Trend over time in Carbapenem-resistant Psuedomonas aeruginosa infections in burn department of Shafa hospital, Kerman, 2010-2018

محل انتشار:

دوازدهمین کنگره بین المللی میکروب شناسی بالینی ایران (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Introduction: Pseudomonas aeruginosa is a common gram-negative bacteria that can cause health-care associated infections, especially in burned patients. Continuous expansion of the resistant type requires an active surveillance system. This system is effective in proper treatment and prevention of further resistance. This study aimed to determine the trend of Carbapenem-resistant Pseudomonas aeruginosa changes, and interventions. **Materials and Methods:** This cross sectional study was conducted in Burn ward from 2010-2018. Passive surveillance for positive cultures was used. Resistance to antibiotics was performed by disk diffusion method. Data were collected using HIS system & laboratory. Control of drug resistance program (2013-2018) include: appropriate hand hygiene, contact precautions, training, isolation and environmental hygiene practices and management of prescription of antibiotics. **Results:** The total number of positive cultures during this period was 1054, of which 250 (23.7%) were pseudomonas. The rate of resistance to Imipenem was 62% in 2010-2012. , 53% in 2013-2016, 31% in 2017 and 30 in 2018. The rate of P. aeruginosa resistance to Meropenem was 10% in 2010-2012. 31% in 2013-2016 and 28% in 2017-2018. There is no intervention in this period (2010-12), Imipenem administration was excessive and Meropenem was not prescribed. Interventions included (2013-2016): active surveillance, environment control, contact precautions/hand hygiene and antibiotic stewardship –best isolation (2017). **Conclusion:** Compared to previous years, the incidence of antimicrobial resistance has decreased. Our results provided useful information regarding antimicrobial resistance among burn patients and this will help in preparing effective guideline for therapy.

کلمات کلیدی:

Antimicrobial resistance, Psuedomonas aeruginosa

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