

عنوان مقاله:

Identification and Characterization of Staphylococcus Aureus Methicillin and Vancomycin Resistance From Patients in Sari and Ghaemshahr Injuries and Burn Hospitals in ۲۰۱۵

محل انتشار:

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خلاصه مقاله:

Background and Aims: Staphylococcus aureus is the most common and important nosocomial pathogens and due to potential virulence and increasing resistance to anti-microbial medicines, they become one of the most important health problems through worldwide. So the aim of this study was identification and characterization of S. aureus resistant to Methicillin and Vancomycin from patients hospitalized in Razi hospital of Ghaemshahr and Shahid Zare of Sari and characteristics antibiotics susceptibility pattern in ۲۰۱۵. Materials and Methods: In this cross-sectional descriptive study, ۱۳۴ strains of Staphylococcus aureus from hospitalized patients in infectious diseases and burns were collected randomly from the hospital laboratory and transferred to the research laboratory. The specimens were incubated in Blood Agar medium for ۲۴ hours at ۳۷ ° C. The colonies were examined for morphology, biochemical properties, resistance to polymixin and sensitivity to Novobiocin. For isolates, antibiotic test was performed using disk diffusion method and PCR detection was performed. PCR results were approved for sequencing. Results: ۱۰۰ out of ۱۳۴ samples were positive for S. aureus; ۵۱ samples were methicillin-resistant and ۲ samples were resistant to all of the antibiotics and Vancomycin with vanA and vanB resistance gene. Conclusions: Determination of new resistance factor in nosocomial infection is one of the major challenges in treating these infections. ۲۵.۳۷% of the samples, weren't S. aureus. This study showed ۵۱% prevalence of methicillin-resistance

کلمات کلیدی:

Staphylococcus aureus, Resistance, Methicillin, Vancomycin, استافیلوکوکوس اورئوس, مقاومت, متی سیلین, وانکومایسین

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