

عنوان مقاله:

Identification of Methicillin-resistant Staphylococcus aureus from personnel and equipment of Vali-e-Asr hospital-Bafgh-Yazd in 2018

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

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خلاصه مقاله:

Introduction and Objectives: Methicillin-resistant Staphylococcus aureus (MRSA) is one of the most common pathogens in hospitals that has been increasing worldwide over the past three decades. The purpose of this study was to isolate and identify MRSA from hospital personnel and equipment. **Materials and Methods:** This is a cross-sectional study. The samples collected of personnel and equipment of different parts of the hospital, including lab, Internal, Pediatric, Surgical, CCU, ICU, Operating room, and Dialysis sections. One hundred samples were cultured on blood agar and eosin methylene blue agar. To continue, phenotypic tests, including hemolysis production, pigment production, Gram stain, catalase, coagulase, mannitol salt agar, and DNase were used for Staphylococcus aureus identification. Cefoxitin was used for MRSA identification by disc diffusion method. **Results:** The results of 100 samples from personnel and equipment in different parts of the hospital showed that the highest rate was for Gram-positive bacteria. Twenty five isolates were positive for Staphylococcus aureus and six isolates were positive for MRSA. **Conclusion:** Considering the increasing MRSA infections, disinfection of hospital equipment and eradicating it from carriers is essential.

کلمات کلیدی:

Staphylococcus aureus, Medical equipment, MRSA

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