

Antibiotics Sensitivity Profile Towards *Staphylococcus hominis* in Assir Region of Saudi Arabia

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Abstract

Staphylococcus hominis is a Gram-positive, spherical cells in clusters and coagulase-negative bacterial. It commonly occurs as a harmless commensal on human skin, occasionally causes nosocomial or community acquired infection specially in immuno-compromised patients. Nowadays almost all *Staphylococcus* species have multidrug resistance. In this study, a total of ten out of one hundred fifty nasal swabs at Assir Central Hospital General Lab during the period of April 2011- July 2011 proved to be *Staphylococcus* spp. and identified as *Staphylococcus hominis* patients of different sex and age groups with variable systemic infections (e.g. RTI, UTI, CNS). The samples were tested by bactech, culture media, antibiotics sensitivity using diffusion disc test (MBC) and molecular polymerase chain reaction (PCR) for confirmation of *Staphylococcal* species and detection of the *Mec A* gene. Clinical, demographic and laboratory data were collected and analyzed by SPSS. Drugs found to be resistant to all patients were penicillin, erythromycin, ampicillin, cefoxime and carbinicillin. Whereas cotrimoxazole, amikacin and vancomycin were sensitive to all patients. Only 10% of patients were sensitive to methotrexate and cefaclor. Drugs that showed variable sensitivity pattern among patients were tetracyclin, fusidin, augmentin, gentamycin and ciprofloxacin.

Keywords: *Staphylococcus hominis*; Coagulase-negative; Multidrug resistance; Gram-positive; SHN.

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1. Introduction

Staphylococcus hominis is a coagulase-negative member of the bacterial genus *Staphylococcus*, consisting of Gram-positive, spherical cells in clusters. Colonies of *S.*

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