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### 论著

耐甲氧西林葡萄球菌及异质性万古霉素中介的检测与分析 FREE

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# 摘要:

100 微生物自动分析系统进行鉴定及药敏试 方法 选择住院感染患者标本分离的葡萄球菌,采用BDphoenix 验,并以头孢西丁纸片扩散法检测MRS,肉汤稀释法测定无菌体液及分泌物标本分离的41株MRS对万古霉素的敏 感性; 脑心浸液琼脂诱导异质性万古霉素中介株,进一步用E test试条检测万古霉素敏感性。结果 239株葡萄球 菌中有160株MRS,痰液、脓液、血液及胸腹腔积液标本是其主要来源,耐甲氧西林的金黄色葡萄球菌和凝固酶阴 性葡萄球菌均呈多重耐药性,但对利奈唑胺、呋喃妥因敏感率为100.00%,未发现对万古霉素高度耐药株。患者 无菌体液及分泌物 h VIS检出率为14.63%(6/41),其中金黄色葡萄球菌的分离率为7.14%(1/14),血浆凝 固酶阴性葡萄球菌分离率为18.52%(5/27)。结论 准确检测出MRS和h VIS,对临床有效控制感染极为重要。 关键词: 葡萄球菌属; MRS; MRSA; MRCNS; 异质性万古霉素中介葡萄球菌; 抗药性 微生物; 万古霉素

Detection and analysis on methicillin resistant Staphylococcus and heterogeneous vancomycin intermediate Staphylococcus FREE

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#### Abstract:

Objective To investigate the infection with methicillin resistant Staphylococcus (MRS) and isolation rate of heterogeneous vancomycin intermediate Staphylococcus (h VIS) in hospitalized patients .Methods Staphylococcus strains isolated from samples of infected inpatients were selected, bacteria were identified and performed antimicrobial susceptibility test by BDphoenix microbial auto analysis system, MRS were detected by cefoxifin disk diffusion method, 41 strains of MRS isolated from aseptic body fluids and secretions were selected for detecting the susceptibility to vancomycin by the broth dilution; The h VIS strains induced on the brain heart infusion (BHI) agar plate were studied by E test method to investigate their sensitivity to vancomycin. Results There were 160 strains of MRS in 239 isolated Staphylococcus strains. MRS were mainly isolated from patients' sputum, pus, blood, pleural effusion, and hydrops abdominis. Both methicillin resistant Staphylococcus aureus (MRSA) and coagulase negative Staphylococcus (CNS) were multidrug resistant, but the sensitive rates to linezolid and furadantin were 100.00%, no highly vancomycin resitant strains was found. The detection rate of h VIS in aseptic body fluid and secretion was 14.63%(6/41), the isolation rate of Staphylococcus aureus and CNS was 7.14%(1/14) and 18.52 %(5/27) respectively. Conclusion Accurate detection of MRS and h VIS is important to control clinical infection efficiently.

Keywords: Staphylococcus spp MRS; MRSA; MRCNS heterogeneous vancomycin intermediate Staphylococcus drug resistance, microbial vancomycin

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### 参考文献:

[1] **\( \ZK** (#)\) National Committee for Clinical Laboratory Standards. Performance standards for

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- antimicrobial susceptibility testing [S]. Sixteenth informational supplement. M100 S16. NCCLS, 2006: 39.
- [2] **二**马筱玲, 张涛, 戴媛媛, 等·金黄色葡萄球菌对万古霉素敏感性试验方法评价 [J]. 临床检验杂志, 2006, 24 (3): 185-187.
- [3] **A**ritaka N, Hanaki H, Cui L, et al . Combination effect of Vancomycin and beta lactams against a Staphylococcus aureus strain, Mu3, with heterogeneous resistance to vancomycin [J] . Antimicrob Agents Chemother, 2001, 45(4): 1292-1294.
- [4] **二**朱以军,徐瑞龙,单小云,等·医院感染葡萄球菌属的分布特点与耐药性[J].中华医院感染学杂志,2007, 17 (5): 599-601.
- [5] **二**赵瑞玲, 陈乾, 刘彬, 等·头孢西丁纸片法检测MecA基因介导的MRS [J] ·中华医院感染学杂志, 2006, 16 (7): 839-840.
- [6] Moore M R, Perdreau Remington F, Chambers H F. Vancomycin treatment failure associated with heterogeneous vancomycin intermediate Staphylococcus aureus in a patient with endocarditis and in the rabbit model of endocarditis [J]. Antimicrob Agents Chemother, 2003, 47(4):1262-1266.
- [7] Nunes A P, Schuenck R P, Bastos C C, et al . Heterogeneous resistance to vancomycin and teicoplanin among Staphylococcus SPP . isolated from bacteremia [J] . Braz J infect Dis,2007,11 (3):345-350.
- [8] **二**王敬华,刘励军,姚辉华.异质性耐万古霉素溶血葡萄球菌的抗生素后效应研究[J].中国抗生素杂志,2006,31(9):532,562.
- [9] **二**周晓英,张书海.耐万古霉素金黄色葡萄球菌耐药机制及检测方法研究进展[J] .检验医学与临床,2008,5(7):422-424.

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