

实验研究

2007—2010年金黄色葡萄球菌临床分离与耐药变迁

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摘要:

目的研究某院临床标本分离的金黄色葡萄球菌(SA)与耐甲氧西林金黄色葡萄球菌(MRSA)的分布及其耐药性。方法收集该院2007—2010年细菌室分离的SA,采用全自动微生物分析仪VITEK 2Compact进行鉴定;采用纸片扩散法(Kirby Bauer)进行药敏试验。应用WHONET5.5软件对数据进行统计分析。结果4年共检出689株SA,其中MRSA347株,占50.36%。SA主要分离自重症监护室(119株,17.27%)和神经外科(109株,15.82%)。MRSA主要分离自神经外科(63株,18.16%)和重症监护室(61株,17.58%);检出率最高的科室是呼吸科,达79.49%(31/39);痰标本中分离的MRSA最多(255株,73.49%),其次为伤口分泌物(45株,12.97%)。MRSA对大多数抗菌药物耐药,但对复方磺胺甲口恶唑的耐药率为21.1%~42.7%,且有降低趋势;而对甲氧西林敏感的SA(MSSA)对除青霉素外的大多数抗菌药物敏感;未发现耐万古霉素菌株。结论该院MRSA检出率较高,应加强对SA耐药性的监测,严格隔离MRSA感染者,加强医务人员手卫生,合理使用抗菌药物,以有效预防和控制多耐药MRSA的产生。

关键词: 金黄色葡萄球菌 耐甲氧西林金黄色葡萄球菌 抗药性 微生物 抗菌药物 合理用药

Isolation and antimicrobial resistance of Staphylococcus aureus from 2007 to 2010

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Abstract:

Objective To analyze the distribution and antimicrobial resistance of Staphylococcus aureus (SA) and methicillin resistant Staphylococcus aureus (MRSA) isolated from clinical samples in a hospital. Methods SA isolated from 2007 to 2010 were identified with automatic microorganism analyzer (VITEK 2Compact); antimicrobial susceptibility testing was performed by disk diffusion method, and the data were analyzed with WHONET5.5. Results A total of 689 SA isolates were isolated within 4 years, 347 (50.36%) of which were MRSA. Of all SA strains, 119 (17.27%) were isolated from intensive care unit (ICU), 109 (15.82%) were from neurosurgery department. Of all MRSA strains, 63 (18.16%) were isolated from neurosurgery department and 61 (17.58%) were from ICU; 79.49% (31/39) of SA from respiratory department were MRSA; 73.49% (225 isolates) of MRSA were from sputum, and 12.97% (45 isolates) from wound secretion. MRSA were resistant to most antimicrobial agents, the resistant rate to trimethoprim sulfamethoxazole was 21.1%-42.7%, and there was a decreasing tendency in resistance; methicillin sensitive Staphylococcus aureus (MSSA) were sensitive to the majority of antimicrobial agents except penicillin; No strains were found resistant to vancomycin in this study. Conclusion Isolation of MRSA is high in this hospital, monitoring of drug resistance of SA should be strengthened, patients with MRSA should be strictly isolated, hand hygiene of health care workers should be stressed, antimicrobial agents should be used rationally, so as to prevent and control the emergence of MRSA.

Keywords: Staphylococcus aureus; methicillin resistant Staphylococcus aureus; drug resistance, microbial antimicrobial agents rational use of drug

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- [1] 李娟, 韩艳. 连续5年金黄色葡萄球菌耐药性监测 [J]. 中华医院感染学杂志, 2010, 20 (24): 4008-4010.
- [2] Cars O. Colonisation and infection with resistant gram positive cocci [J]. Drug, 1997, 54 (suppl): 4-10.
- [3] Gates R H. 美国最新临床医学问答——感染性疾病 [M]. 汪明明, 崔速南, 译. 北京: 海洋出版社, 2000: 79.
- [4] Pujol M, Pena C, Pallares R, et al. Nosocomial Staphylococcus aureus bacteremia among nasal carriers of methicillin resistant and methicillin susceptible strains [J]. Am J Med, 1996, 100(5): 509-516.
- [5] 吴安华, 李春辉. 医院环境与住院患者耐甲氧西林金黄色葡萄球菌耐药性 [J]. 中国医学科学院学报, 2008, 30 (5): 525-530.
- [6] 钱小毛, 金海勇. 312株金黄色葡萄球菌耐药特性的研究 [J]. 中华医院感染学杂志, 2009, 19(5): 578-579.
- [7] Chang S, Sievert D M, Hageman J C, et al. Infection with vancomycin resistant Staphylococcus containing the vanA resistance gene [J]. N Engl J Med, 2003, 348(14): 1342-1347.

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1. 毛璞, 单靖岚, 叶丹, 郑蕾, 李莲娜, 黎毅敏. ICU多重耐药鲍曼不动杆菌医院感染的同源性分析 FREE [J]. 中国感染控制杂志, 2010, 9(1): 6-9
2. 刘晓春, 王国庆, 王蓉, 刘运德. 产ESBLs肺炎克雷伯菌耐药性及基因分型 FREE [J]. 中国感染控制杂志, 2010, 9(1): 15-18
3. 李传杰, 蔡月莲, 文晓君, 奉涛. 细菌感染性疾病临床疗效与病原学送检相关性分析 FREE [J]. 中国感染控制杂志, 2010, 9(1): 34-36
4. 汪定成, 张惠中, 杨丽华, 戈伟, 邵海连, 韩香妮. 利奈唑胺等抗菌药物对肠球菌属体外抗菌活性评价 FREE [J]. 中国感染控制杂志, 2010, 9(1): 37-39
5. 周秀珍, 刘建华, 孙继梅, 刘勇. 铜绿假单胞菌对 $\beta$  内酰胺类抗生素的耐药性变迁 FREE [J]. 中国感染控制杂志, 2010, 9(1): 43-45
6. 顾乐平, 黄晓平, 蔡瑞云. 产ESBLs大肠埃希菌、肺炎克雷伯菌的分布及耐药性分析 FREE [J]. 中国感染控制杂志, 2010, 9(1): 46-48
7. 张进军, 杨怀德, 向雪琼, 李雪梅. 非发酵菌在临床标本中的检出及耐药性分析 FREE [J]. 中国感染控制杂志, 2010, 9(1): 49-52
8. 黄利芝, 李静. 下呼吸道感染病原菌分布及耐药性分析 FREE [J]. 中国感染控制杂志, 2010, 9(1): 53-54
9. 白永韬, 张建宏. 42例剖宫产病例抗菌药物不合理应用评析 FREE [J]. 中国感染控制杂志, 2010, 9(1): 59-60
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11. 宗春辉<sup>1</sup>, 孙兰菊<sup>2</sup>, 李东华<sup>2</sup>, 朱广莉<sup>2</sup>, 吴尚为<sup>1</sup>. MRSA分子流行病学研究 FREE [J]. 中国感染控制杂志, 2010, 9(2): 85-88
12. 刘强, 肖鑫, 张蕾蕾, 许培仁. 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 [J]. 中国感染控制杂志, 2010, 9(2): 89-92
13. 董晨晓<sup>1</sup>, 宋诗铎<sup>1</sup>, 王悦<sup>1</sup>, 门昆<sup>2</sup>. 43株临床铜绿假单胞菌 *exoS*、*exoU* 基因的携带及其耐药性 FREE [J]. 中国感染控制杂志, 2010, 9(2): 93-96
14. 孙雪皎, 王豫平. 鲍曼不动杆菌肺部感染的临床特点及耐药性分析 FREE [J]. 中国感染控制杂志, 2010, 9(2): 114-117
15. 储从家, 孔繁林, 吴惠玲. 990株临床非发酵菌的种群分布及耐药谱分析 FREE [J]. 中国感染控制杂志, 2010, 9(2): 121-124