

论著

儿童医院住院患儿铜绿假单胞菌的同源性

高巧莹¹, 管卫², 孙兰菊³, 黄敬孚², 吴尚为^{1,3}

1天津医科大学病原微生物室, 天津300070; 2天津市儿童医院, 天津300074; 3天津市南开医院, 天津300100

摘要:

目的了解某儿童专科医院临床分离的铜绿假单胞菌(PA)感染流行趋势, 观察PA的科室分布特征、耐药性及基因型。方法收集该儿童专科医院住院患儿送检标本分离的56株PA进行耐药性分析, 并应用脉冲场凝胶电泳(PFGE)分型技术对其进行基因分型。结果56株PA对氨苄西林耐药率为100.00%, 对阿米卡星、环丙沙星耐药率为0.00%, 对其他抗菌药物表现为不同的耐药率(1.79%~96.43%); 共被分为18个PFGE型别, 其中A型26株(均分离于呼吸科), B型12株(11株分离于内分泌科), C型3株, D~R型各1株。不同科室分离的菌株数量不同, 其中呼吸科分离最多, 达27株(48.21%); 其次为内分泌科13株(23.21%)。结论该儿童医院呼吸科和内分泌科分别存在PA的2种不同克隆菌株流行。PFGE具有特异性高、重复性好、结果容易判断等优点, 是目前细菌基因分型较为可靠的技术。

关键词: 铜绿假单胞菌 脉冲场凝胶电泳 分子流行病学 抗药性 微生物 儿童

Research on homology of *Pseudomonas aeruginosa* isolated from hospitalized children

GAO Qiao ying¹, GUAN Wei², SUN Lan ju³, HUANG Jing fu², WU Shang wei^{1, 3}

1 Tianjin Medical University, Tianjin 300070, China; 2 Tianjin Children Hospital, Tianjin 300074; 3 Tianjin Nankai Hospital, Tianjin 300100

Abstract:

Objective To realize the molecular epidemiology and antimicrobial susceptibility patterns of *Pseudomonas aeruginosa* (PA) in a children's hospital. Methods Fifty six strains of PA isolated from hospitalized children were performed antimicrobial susceptibility test and pulsed field gel electrophoresis (PFGE) genotyping. Results All strains were resistant to ampicillin, resistant rate was 100.00%, and the resistant rate to amikacin and ciprofloxacin were both 0.00%, the resistant rates to the other antimicrobial agents were between 1.79%-96.43%; isolates were classified into 18 types by PFGE typing, 26 of which were type A (all were isolated from children in respiratory department), 12 were type B (11 strains from endocrinology department), 3 were type C, and 1 was type D~R each, the isolated bacteria varied with different department, respiratory tract department had the most isolated strains (27 strains, 48.21%), the next was endocrinology department (13 strains, 23.21%). Conclusion Two different major epidemic isolates of PA were isolated from respiratory and endocrinology department in this hospital. PFGE typing is a reliable method to characterize the prevalence isolates.

Keywords: *Pseudomonas aeruginosa* pulsed field gel electrophoresis molecular epidemiology drug resistance, microbial; children

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通讯作者: 吴尚为

作者简介: 高巧莹(1982-), 女(汉族), 河北省沧州市人, 研究生, 主要从事分子流行病学研究。

作者Email: shangwei10021@yahoo.com.cn

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