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论著

实体器官移植患者菌血症并发脓毒性休克的危险因素

肖雪飞¹, 万齐全², 叶启发², 马颖², 周建党³

1. 中南大学湘雅三医院 急危重症医学科, 长沙 410013;
2. 中南大学湘雅三医院 器官移植中心, 长沙 410013;
3. 中南大学湘雅三医院 检验科, 长沙 410013

摘要:

目的:探讨并发菌血症的实体器官移植患者中发生脓毒性休克的危险因素。方法:回顾性调查接受实体器官移植后并发菌血症的98名患者的临床资料。菌血症符合美国疾病控制中心(Centers of Disease Control, CDC)的标准,对发生脓毒性休克的6种可能危险因素进行单因素及logistic回归分析。结果:98名病人共发生133次菌血症,其中39人发生脓毒性休克(39/98)。在39名脓毒性休克的患者中,31例患者(79%)死亡,复数菌菌血症占43.5%,革兰阴性菌菌血症占38.5%,革兰阳性菌菌血症占15.4%以及真菌菌血症占2.6%。肺部是菌血症病原体最常见的来源(41.8%),其次是腹腔/胆道(24.5%)。单因素分析显示:脓毒性休克发生的危险因素有发生于术后第2周至第8周的菌血症($P=0.014$),复数菌菌血症($P=0.001$),腹腔/胆道部位来源($P=0.011$)和肝移植($P=0.002$)。多因素分析中,只有发生于术后第2周至第8周的菌血症和复数菌菌血症有统计学意义。结论:发生菌血症的实体器官移植患者中脓毒性休克发生的危险因素是早发型菌血症(术后第2周至第8周)和复数菌菌血症。

关键词: 实体器官移植 菌血症 脓毒性休克 危险因素

Risk factors for septic shock in patients with solid organtransplantation and complication of bacteremias

XIAO Xuefei¹, WAN Qiquan², YE Qifa², ZHOU Jiandang²

1. Department of Emergency and Critical Care Medicine, Third Xiangya Hospital, Central South University, Changsha 410013, China;
2. Center of Transplantation, Third Xiangya Hospital, Central South University, Changsha 410013, China;
3. Department of Clinical Laboratory, Third Xiangya Hospital, Central South University, Changsha 410013, China

Abstract:

Objective: To explore the risk factors for septic shock in patients with solid organ transplantation and complication of bacteremias.

Methods: Clinical data of 98 solid organ transplant cases with complication of bacteremias were retrospectively studied. All episodes of bacteremias met the CDC criteria. Six possible risk factors contributing to septic shock were evaluated by univariate analysis and multivariate logistic regression analysis.

Results: Among the 98 patients, 133 times of bacteremias have been reported and 39 patients developed septic shock. Among the 39 patients with septic shock, 43.5%, 38.5%, 15.4% and 2.6% of bacteremias were induced by multiple bacteria, gram-negative bacteria, gram-positive bacteria and fungi, respectively. The lung was the main source of bacteremias (41.8%), followed by intraabdominal/biliary focus (24.5%). Risk factors for developing septic shock included the bacteremias happened in the 2nd to 8th week post transplant ($P=0.014$), polymicrobial etiology ($P=0.001$), intra-abdominal/biliary focus ($P=0.011$), and liver transplant ($P=0.002$). Only bacteremias occurred in the 2nd to 8th week post transplant and polymicrobial etiology were significant risk factors by multivariate analysis.

Conclusion: Risk factors for developing septic shock in bacteremias after SOT are early-onset (the 2nd-8th week post transplant) and polymicrobial etiology.

Keywords: solid organ transplant bacteremia septic shock risk factors

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通讯作者: 万齐全, Email: wanqiquan@sohu.com

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作者Email: wanqian@sohu.com

参考文献：

1. McClean K, Kneteman N, Taylor G. Comparative risk of bloodstream infection in organ transplant recipients [J]. Infect Control Hosp Epidemiol, 1994, 15(9): 582-584.
2. Moreno A, Mensa J, Almela M, et al. 138 episodes of bacteremia or fungemia in patients with solid organ (renal or hepatic) transplantation [J]. Med Clin (Barc), 1994, 103(5): 161-164.
3. Lee SO, Kang SH, Abdel-Massih RC, et al. Spectrum of early-onset and late-onset bacteremias after liver transplantation: implications for management [J]. Liver Transpl, 2011, 17(6): 733-741.
4. Linares L, Garcia J, Cervera C, et al. Early bacteremia after solid organ transplantation [J]. Transplantation Proc, 2009, 41(6): 2262-2264.
5. Wagener MM, Yu VL. Bacteremia in transplant recipients: a prospective study of demographics, etiologic agents, risk factors and outcomes [J]. Am J Infect Control, 1992, 20(5): 239-247.
6. Moreno A, Cervera C, Gavald J, et al. Bloodstream infections among transplant recipients: results of a nationwide surveillance in Spain [J]. Am J Transplant, 2007, 7(11): 2579-2586.
7. Candel FJ, Grima E, Matesanz M, et al. Bacteremia and septic shock after solid-organ transplantation [J]. Transplant Proc, 2005, 37(9): 4097-4099.
8. Garner JS, Jarvis WR, Emori TG, et al. CDC definitions of nosocomial infections [J]. Am J Infect Control, 1988, 16(3): 128-140.
9. Weinstein MP, Towns ML, Quartey SM, et al. The clinical performance of positive blood cultures in the 1990s: A prospective comprehensive evaluation of the microbiology, epidemiology, and outcome of bacteremia and fungemia in adults [J]. Clin Infect Dis, 1997, 24(4): 584-602.
10. Singh N, Paterson DL, Gayowski T, et al. Predicting bacteremia and bacteremic mortality in liver transplant recipients [J]. Liver Transpl, 2000, 6(1): 54-61.

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1. 谭红专; 周价; 李硕颀; 张继海; .115对胃癌病例对照研究[J]. 中南大学学报(医学版), 2002, 27(4): 379-
2. 凌光辉1, 曾妮2, 刘家军3, 彭佑铭1, 段绍斌1, 夏运成1, 刘虹1, 刘映红1, 李军1, 李瑛1, 孙林1, 刘伏友1.5 100例体外循环心脏手术后急性肾损伤的围手术期危险因素分析[J]. 中南大学学报(医学版), 2009, 34(09): 861-866
3. 金湘东1, 代丽萍2, 3, 张建营2, 3, 张校辉2, 3, 王鹏2, 3, 聂铁飞2, 3, 王平2, 3, 徐学琴2, 3, 王凯娟2, 3.河南省农村地区胃癌危险因素的病例对照家系研究[J]. 中南大学学报(医学版), 2007, 32(05): 782-785
4. 王峻, 刘颖娴, 李向平, 彭道泉, 谭峰, 刘鸿敏, 秦英楠, 薛彦琼.组织蛋白酶L与冠心病及其危险因素的相关性[J]. 中南大学学报(医学版), 2009, 34(02): 130-134
5. 李新华1, 廖兵荣1,2, 刘健3, 谭红专1, 黄文繁4, 克瓦库1, 刘薇1, 黄昕1, 文师吾1, 5.长沙和深圳市儿童肥胖症患病率与危险因素研究[J]. 中南大学学报(医学版), 2010, 35(1): 11-16
6. 王浩, 李硕颀*, 张磊, 张静, 戴伟.湖南省鼻咽癌非病毒影响因素的条件logistic回归分析[J]. 中南大学学报(医学版), 2005, 30(3): 356-357
7. 林国强1,*, 蒋海河1, 李迎秋2.冠心病患者血浆血管性血友病因子、可溶性E-选择素的变化及意义[J]. 中南大学学报(医学版), 2005, 30(4): 399-402
8. 欧迪鹏, 杨连粤*, 黄耿文, 陶一明, 丁翔, 常志刚.肝细胞癌术后复发转移相关危险因素分析[J]. 中南大学学报(医学版), 2005, 30(5): 540-543
9. 陈卓雄, 雷闽湘*, 刘泽灏, 王爱民, 张军, 孙曙光.2型糖尿病患者脑卒中患病危险因素的回顾性研究[J]. 中南大学学报(医学版), 2004, 29(2): 243-244
10. 杜小平; 夏健; 杨期东; 许宏伟.胰岛素抵抗与脑血管病危险因素聚集性关系的研究[J]. 中南大学学报(医学版), 2000, 25(2): 163-
11. 陈欲晓; 韦超凡; 蒋洪敏;.白念珠菌血症诱导小鼠皮质胸腺细胞凋亡[J]. 中南大学学报(医学版), 2000, 25(2): 113-
12. 胡平成; 刘树仁; 黄正南; 孙振球.早产危险因素的病例对照研究[J]. 中南大学学报(医学版), 2000, 25(5): 446-
13. 邓庚, 蒋卫红, 李颖, 等.长沙市某区妊娠期高血压疾病的流行状况及相关危险因素分析[J]. 中南大学学报(医学版), 2011, 36(4): 335-
14. 张一川, 何乐业, 龙智, 孙晓辉, 王国民, 裴夏明, 钟狂飚, 叶欣发.前列腺增生症患者急性尿潴留发生的临床特点[J]. 中南大学学报(医学版), 2012, 37(3): 300-304
15. 万齐全, 明英姿, 马颖.实体器官移植术后并发败血症96例临床分析[J]. 中南大学学报(医学版), 2012, 37(5): 509-512