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Study on the changes of interleukin-6 after trauma in mice※

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Abstract The changes of interleukin-6 (IL-6) in serum after burns, amputation and a closed injury were observed in mice and the production of IL-6 in the macrophages and lymphocytes were also studied. It was found that the serum level of IL-6 was significantly increased after 3 kinds of trauma especially after burn injury. Macrophages and lymphocytes from the spleen, thymus and mesenteric lymph nodes showed a spontaneous enhancement on the capacity to produce IL-6 after trauma or a stimulated enhancement with Lps or ConA.

Key words trauma; interleukin-6; macrophage; lymphocyte

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一例由铜绿假单胞菌和弗劳地枸橼酸杆菌引起的肝脓肿

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1 病例简介

患者吴××,男,63岁。诊断为胆囊癌,术后持续高热,多次胆汁、血液培养、均检出铜绿假单胞菌。B超提示肝右叶下缘脓肿,脓肿穿刺液培养出铜绿假单胞和弗劳地枸橼酸杆菌。

2 细菌的分离鉴定

将脓肿穿刺液接种于血平板上,经37℃培养24 h后,长出两种菌落,一是灰绿色、扁平、边缘不整,2～3 mm大小、菌周围呈透明溶血;二是灰白色、圆形、稍凸起,边缘整齐,2 mm大小,菌落周围无溶血。革兰氏染色均为阴性杆菌[1]。生化反应鉴定结果如下:前者氧化酶、动力、精氨酸、木糖、葡萄糖、硝酸盐还原、乙酰胺、DNA和枸橼酸盐均阳性,乳糖、麦芽糖、甘露醇、赖氨酸和H_2S等为阴性;定为铜绿假单胞菌。后者葡萄糖、乳糖、麦芽糖、阿拉伯糖、棉子糖、鼠李糖、木糖、甘露醇、山梨醇、卫茅醇、枸橼酸盐、精氨酸、鸟氨酸、动力和H_2S均阳性,氧化酶、苯丙氨酸、丙二酸盐、尿素、水杨素、侧金盏花醇、精基质等阴性;定为弗劳地枸橼酸杆菌。

3 药敏试验

采用Kirby－Bauor法[2],结果如下:铜绿假单胞菌对妥布霉素、庆大霉素、多粘菌素、丁胺卡那霉素敏感,对羧苄青霉素和卡那霉素中敏,对氨苄青霉素、氯霉素、红霉素、先锋霉素Ⅴ.先锋噻肟和杆菌肽等耐药,弗劳地枸橼酸菌仅对妥布霉素,庆大霉素和丁胺卡那霉敏感,对上述其他药物均耐药。

4 讨论

该病例不仅肿瘤患部遭铜绿假单胞菌感染,且铜绿假单胞菌与枸橼杆菌混合感染引起肝脓肿,在既往文献中罕见。

依据侧金盏花醇、丙二酸盐和H_2S三项生化反应特点,本例患者分得的枸橼酸杆菌株属于弗劳地枸橼酸杆菌。

关键词 肝脓肿;铜绿假单胞菌*;弗劳地枸橼酸杆菌
中图法分类号 R575.4

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