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### 卡氏肺孢子菌肺炎大鼠超氧化物歧化酶和过氧化脂质变化的研究

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#### Changes of Superoxide Dismutase and Lipid Peroxide in Rats with *Pneumocystis carinii* Pneumonia

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**摘要** 24只SD大鼠分为卡氏肺孢子菌肺炎感染组(18只)和健康对照组(6只)。感染组以地塞米松磷酸钠3.5 mg/(只·次),每周2次,连续8周腹腔皮下注射SD大鼠,建立卡氏肺孢子菌肺炎动物模型。肺组织印片六亚甲基四胺银染色和肺组织病理切片伊红-苏木素(HE)染色观察实验大鼠肺组织的病理学变化。分光光度法检测肺组织匀浆超氧化物歧化酶(SOD)活力和过氧化脂质(LPO)含量。结果显示,感染组大鼠可见卡氏肺孢子菌包囊并发现典型病理改变;感染组SOD值[ $(31.49 \pm 7.18)$  U/mgprot]与健康对照组[ $(54.41 \pm 8.97)$  U/mgprot]相比,差异有统计学意义( $P < 0.01$ );感染组LPO值[ $(2.26 \pm 0.21)$  nmol/mgprot]与健康对照组[ $(1.63 \pm 0.01)$  nmol/mgprot]相比,差异有统计学意义( $P < 0.01$ )。

**关键词:** 卡氏肺孢子菌肺炎 超氧化物歧化酶 过氧化脂质

**Abstract:** Sprague-Dawley (SD) rat model of *Pneumocystis carinii* pneumonia (PCP) was established by groin subcutaneous injection with dexamethasone sodium phosphate 3.5 mg each twice a week for eight weeks. There were two groups: infected group (eighteen rats) and normal control group (six rats). Pathological changes in lung tissues were observed in the lung imprint after staining with Gomori methenamine silver (GMS) and in tissue sections after staining with hematoxylineosin (HE). The activity of superoxide dismutase (SOD) and the content of lipidperoxide (LPO) in lung tissue homogenate were detected by spectrophotometric method. Results showed that in infected group more PC cysts were found in the lung imprint and typical pathological change observed in the lung section. SOD activity in infected group[ $(31.49 \pm 7.18)$  U/mgprot] decreased significantly compared with the control[ $(54.41 \pm 8.97)$  U/mgprot] ( $P < 0.01$ ), but LPO in infected group[ $(2.26 \pm 0.21)$  nmol/mgprot] was higher significantly than the control [ $(1.63 \pm 0.01)$  nmol/mgprot] ( $P < 0.01$ ).

**Keywords:**

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