DOI:10.16016/j.1000-5404.1991.04.006

Effects of Radiation, Burns and Combined Radiation-burn Injury on Hepatic Lipid Peroxidation and Relative Enzyme Activity in Rats

Xu Huei, Chen Zongrong (Department of Radiation Medicine, Third Military Medical College, Chongqing, 630038)

Abstract Rats were divided into 3 groups and inflicted with total body irradiation of 5 Gy of gamma rays from a ^{60}Co source, 15% TBSA full thickness burns, or both of them respectively. The changes of lipid peroxide, cytochrome oxidase, NADH-cytochrome C reductase, catalase and superoxide dismutase activities were observed. It was found that the MDA content of hepatic mitochondria was significantly elevated in all the 3 goups on the 2nd and 6th day postinjury, and there was a third peak of MDA elevation in the the burn group on the 10th day postinjury. The increase of MDA in hepatic mitochondria was probably due the combined action of 2 factors: (1) increased production of toxic active oxygen species such as O_2^- and H_2O_2 as a result of increased activity of NADH-cytochrome C reductase and cytochrome oxidase, and (2) alterations of the defence mechanism against this active oxygen species due to lowered activity of superoxide dismutase and catalase.

Key Words radiation injury; thermal burns; lipid peroxidation; oxygen free radical; mitochondrium.

膀胱子宫内膜异位一例报告

游 箭 （第三军医大学西南医院 放射科） 630038
彭 勇 （第三军医大学新桥医院 放射科） 630037

病例 女，35岁。以行经后尿频、尿痛、尿急反复发作2年，膀胱肿块1年入院。近1年，多次B超认为膀胱肿块并进行性增大。膀胱镜前2次见膀胱内突起，活检为炎症，第3次见三角区偏右有3cm×3cm区域滤泡样水肿向腔内突出，其下方有黄豆大小紫蓝色组织突起。既往有剖腹产史。查体见子宫后位、稍大、活动，子宫前方膀胱与腹部切口处有粘连之包块，不规则，欠活动。外阴、阴道和附件未见异常。血、尿、大便常规未见异常。IVP见膀胱中央3cm×3.5cm透光区，提示膀胱新生物。B超见子宫颈后壁2.1cm之相对回声，分界尚清；膀胱底部4.0cm×2.9cm强回声，经震动不变形；提示膀胱赘生物，子宫肌瘤。CT见膀胱底部偏右0.8cm结节影，边缘光滑，局部膀胱壁增厚，子宫增大，提示膀胱癌和子宫肌瘤。手术见膀胱底部偏右约3cm×2.7cm隆起肉芽组织，质中，包块下方有黄豆大小紫蓝色组织突起。探查腹腔们及子宫体近颈部有中等硬度包块。切除膀胱肿块。病理诊断为膀胱子宫内膜异位症。

讨 论

膀胱子宫内膜异位症属罕见病，好发年龄为20岁～45岁女性病人。其特点为（1）临床症状有周期性并与月经期关系密切[1]；（2）膀胱镜见有紫黑色结节或囊性肿块，活检多无诊断意义，但可除外恶性肿瘤[2]；（3）影象学表现为膀胱占位。本例因其占位而误诊为膀胱肿瘤，忽视了症状与月经期的关系。因此应提高对本病的认识，达到正确诊断。

关键词 子宫内膜异位症；膀胱；影象诊断

参 考 文 献

1. 王健 孙玉成 李进。膀胱子宫内膜异位症一例。临床泌尿外科杂志 1989;4(4):224
2. Chalmers JA. Endometriosis. Ist ed. London and Boston: Butterworths 1975:63

（收稿：1991.03.07；修回：1991.06.10）

?1994-2016 China Academic Journal Electronic Publishing House. All rights reserved. http://www.cnki.net