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blood and urine were collected once a week. It was found that urinary ALP, GGT, AAP, and TREH were increased significantly from the lst week after intoxication, urinary NAG, LDH, and LYS were increased from the 2nd week, proteinuria occurred from the 4th week, and urinary AST was increased significantly from the 6th week. No changes of the plasma levels of the above mentioned enzymes were observed. The activities of AAP, ALP, GGT, and TREH in the brush border membrane of renal tubules were markedly decreased. On the basis of the foregoing findings, it is believed that all the urinary enzymes except AST can serve as early indicators for the cadmium-induced renal tubular damage and AAP, ALP, GGT and TREH, which originate from the tubular brush border membrane, are superior to NAG, LYS, and LDH for this purpose.

Key words cadmium; kidney/IN; urinary enzyme; rabbit

手工法置换血浆加血液光量子疗法治疗寻常型天疱疮一例

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天疱疮的治疗主要是用皮质类固醇激素。由于应用剂量大,疗程长,副作用多,我们加用手工置换血浆加血液光量子疗法治疗寻常型天疱疮一例。效果满意,报道如下。

1 病史摘要

患者,杨某,女,18 岁,住院号 186742。患者自述两月前晨起时出现背部皮肤糜烂,渗液,疼痛,3～4 天后糜烂面逐渐增宽,可见拇指大水泡。疮破溃留糜烂面。在当地医院治疗,无明显效果,且仍有新发,于 5 月 5 日收治我院皮肤科。皮肤科情况,全身约有 90%范围皮肤受累,四肢远端较轻,全身皮肤弥漫性大片红斑糜烂,大部分糜烂面上有厚层黄褐色痂,四肢可见拇指大或鹅蛋大水泡,大部分疱壁已破。尼氏征阳性,直接免疫荧光,表皮细胞间接荧光阳性。诊断为寻常型天疱疮。给强的松 60mg 1/日,止血芳酸 0.75g 1/日,10%氯化钾 10ml 3/日等治疗。5 月 10 日强的松加到 80mg 1/日,无明显好转,肢体仍有新发的水泡,蚕豆大至鸡蛋大小。天疱疮抗体效价为 1∶1280。分别于 5 月 15 日、19 日、23 日行手工法置换血浆共 3 次。考虑到病人体重较轻(40kg),每次治疗分三程,每程采血 300ml,离心分出血浆,将细胞回输后,再采下一程,第三程分出血浆后,红细胞加健康人血浆行紫外线照射充氧后回输给患者,出入量见下表。3 次血浆置换后天疱疮抗体效价 1∶80,面部、躯干和四肢痂皮脱落,无新发水泡,于 6 月 17 日出院。

附表 3 次置换血浆出入量

日 期	补生理盐水 (ml)	补血浆 (ml)	去除血浆 (ml)
15/5	1000	260	690
19/5	700	380	720
23/5	800	300	630

2 讨论

天疱疮是一种自身免疫病,患者血清中存在自身抗体,能和自身表皮细胞表面(间)抗原发生反应,天疱疮抗体主要是 IgG,其效价随病情变化而波动,活动期高,缓解期降低或转阴。置换血浆可使患者抗体效价明显下降,用光量子血疗可提高红细胞的免疫功能,再加上药物巩固治疗,是治疗天疱疮的一种较好的方法。

关键词 血浆交换;血液光量子;天疱疮
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