

地榆升白片对环磷酰胺致小鼠骨髓抑制的拮抗作用

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中文摘要:目的:观察地榆升白片对环磷酰胺所致小鼠骨髓抑制的保护作用。方法:Balb/C小鼠24只随机分为空白对照组、模型组、地榆升白片组。腹腔注射环磷酰胺 $100\text{ mg} \cdot \text{kg}^{-1}$ 建立骨髓抑制模型,地榆升白片组按 $100\text{ mg} \cdot \text{kg}^{-1}$ 灌胃,给药10 d。观察地榆升白片对模型小鼠外周血象、骨髓有核细胞数、骨髓中DNA含量的影响,流式细胞术检测骨髓中各时相细胞周期百分比。结果:模型组小鼠外周血白细胞数、血小板数、骨髓有核细胞数以及骨髓中DNA含量显著降低($P<0.05$ 或 $P<0.01$);骨髓细胞周期中 G_0/G_1 期细胞百分比显著增高, G_2/M 期细胞百分比显著降低($P<0.05$ 或 $P<0.01$)。地榆升白片可以显著增加模型小鼠外周血白细胞数、骨髓有核细胞数及骨髓中DNA含量,恢复骨髓中各期细胞百分比($P<0.05$ 或 $P<0.01$)。结论:地榆升白片对环磷酰胺致骨髓抑制有显著的改善和恢复作用。

中文关键词:地榆升白片 环磷酰胺 骨髓抑制 细胞周期 骨髓有核细胞

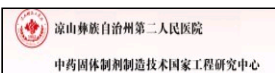
Effect of Diyu Shengbai Tablets on Bone Marrow Depression Induced by Cyclophosphamide in Mice

Abstract: Objective: To investigate the protective function of Diyu Shengbai tablets on bone marrow depression induced by cyclophosphamide in mice. **Method:** Twenty-four Balb/C mice, half male and female, were categorized into three groups. Mice in model group and Diyu Shengbai group were administered cyclophosphamide (Cy) ($100\text{ mg} \cdot \text{kg}^{-1}$ once a day for 3 days by intraperitoneal injection) to induce marrow suppression. Diyu Shengbai group was received Diyu Shengbai table treatment ($100\text{ mg} \cdot \text{kg}^{-1}$ body weight orally once a day for 10 days). A vehicle treated control group was also arranged. The changes of peripheral hemogram, bone marrow nucleated cells (BMCs), DNA content and bone marrow cell cycle were detected. **Result:** Cy-treated mice showed a significant decrease in the number of white blood cells, thrombocyte, bone marrow nucleated cell proliferation and the content of DNA in bone (compared with control group, there were significant differences, $P<0.05$ or $P<0.01$). The percentage of G_0/G_1 phase was increased and the percentage G_2/M phase decreased (compared with control group, there were significant differences, $P<0.05$ or $P<0.01$). Diyu Shengbai tablets significantly increased the number of white blood cells, thrombocyte, bone marrow nucleated cell proliferation and markedly increased the percentage of G_2/M phase (compared with model group ($P<0.05$ or $P<0.01$)). **Conclusion:** Diyu Shengbai Tablets could improve the hemopoietic function for marrow suppression induced by Cy in mice.

keywords: Diyu Shengbai tablets cyclophosphamide bone marrow depression cell cycle bone marrow nucleated cells

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