

论文

参芪扶正粉针对小鼠免疫功能的影响

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摘要:

目的 本研究通过观测参芪扶正粉针静脉给药对动物机体免疫功能的影响,探讨其免疫调节作用。方法 每项检测用KM小鼠50只,雌雄各半,按体质量随机分为5组,每组10只,分别为阴性对照组、参芪扶正粉针低剂量(20mg/10g)组、中剂量(40mg/10g)组、高剂量(80mg/10g)组及参芪扶正注射液组(0.8mL/10g)。连续静脉给药7d后,分别检测小鼠脏器指数、溶血空斑数、血清溶血素水平、迟发型变态反应、T淋巴细胞转化增殖、碳廓清指数及NK细胞活性等免疫指标。结果 与阴性对照组相比,参芪扶正粉针40、80mg/10g组及参芪扶正注射液0.8mL/10g组小鼠的脏器指数、血清溶血素水平、溶血空斑数、迟发型变态反应、T淋巴细胞转化增殖、碳廓清指数及NK细胞活性指标均有统计学差异(P<0.05或P<0.01);而参芪扶正粉针20mg/10g组,仅碳廓清指数和NK细胞活性两项指标与阴性对照组的差异有统计学意义(P<0.05)。结论 参芪扶正粉针能增强小鼠的非特异性和特异性免疫作用,能有效地提高机体的免疫功能。

关键词: 参芪扶正粉针; 小鼠; 免疫功能; 脏器指数

Effects of Shenqi Fuzheng Injection Powder on immune function of mice

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Abstract:

Objective The objective of this paper is to investigate the effects of Shenqi Fuzheng Injection Powder on immune function and immune regulation of mice after intravenous injection. Methods Each test needs 50 KM mice (25 male and 25 female).These 50 KM mice were randomly divided into five groups (Group Veh, Group 20mg/10g, Group 40mg/10g, Mand 80mg/10g of Shenqi Fuzheng Injection Powder as well as Group 0.8mL/10g of Shenqi Fuzheng Injection)according to their body weight. After being treated intravenously for 7 days, detected the immune parameters like the index of organs, the number of hemolysis plaque, the level of serum hemolysin, the delayed hypersensitivity, the transform and proliferation of T lymphocytes, the index of carbon clearance as well as the cyto activity of NK cells. Results Compared with Group Veh, there were significant statistical differences (P< 0.05 or P<0.01) of the index of organs, the number of hemolysis plaque, the level of serum hemolysin,the delayed hypersensitivity, the transform and proliferation of T lymphocytes, the index of carbon clearance as well as the cyto activity of NK cells were found in the group of Shenqi Fuzheng Injection Powder of 40, 80mg/10g and Shenqi Fuzheng injection of 0.8mL/10g after the intravenous administration; while compared with Group Veh, the index of carbon clearance and the cyto activityof NK cells also showed significant statistical differences (P<0.05) in the group of Shenqi Fuzheng Injection Powder of 20mg/10g after the intravenous administration.

Conclusion From the experimental results, it can be speculated that Shenqi Fuzheng Injection Powder can enhance the non-specific and specific immune function on mice, and the immune function of the organism can be effectively improved.

Keywords: Shenqi Fuzheng Injection Powder; Mice; Immune function; Organ index

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