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[Therapeutic effect of astaxanthin on acetic acid-induced gastric ulcer in rats]

[Article in Chinese]

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Abstract

This study is to investigate therapeutic effect of astaxanthin on acetic acid-induced gastric ulcer in rats. Rats were divided into control group, ulcer control group, and astaxanthin (5, 10, and 25 mg x kg⁻¹) groups at random, 8 rats in each group. After administered for 10 days consecutively, all the rats were sacrificed. The area of ulcer and the levels of MDA, SOD, CAT and GSH-Px in gastric mucosa were measured. Compared with ulcer control group, in astaxanthin (5, 10, and 25 mg x kg⁻¹) groups, the area of ulcer was decreased significantly. Level of MDA decreased while activities of SOD, CAT and GSH-Px increased (P < 0.05). Astaxanthin has good therapeutic effect on acetic acid-induced gastric ulcer in rats. Eliminating free radical and improving local blood circulation of the ulcer may be the mechanism of action.

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