

Anti-stress effect of Hervchoke juice in ICR mice and SD rats

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Herbchoke solution produced by Choa pharmaceutical company contained pyroligneous liquid and extracts from artichoke leaves. Pyroligneous liquid is produced by process carbonizing Oak in 350~400°C. It contain water 96%, acetic acid 3% and organic compound 1%. There are 200 kinds of constituents including minerals, vitamin B-complex and organic acids in it. The organic acids of them were presumed as active materials. It is traditionally used for treatment of stress related disorder, hepatic disease, immune disorder, G-I disorder and inflammatory disease. Extracts from artichoke leaves are traditionally used for treatment of stress related disorder, that is, hepatic disease, dyspeptic disorder, hyperlipidemic disorder and diuretic disorder. The aim of this study was to investigate anti-stress effects of Hervchoke juice produced from Choa pharmaceutical company.

The experiments were performed with the use of young(6-8 weeks of age) male mice of ICR strain weighing between 20 and 25 g and young(8 weeks of age) male rats of SD strain weighing between 180 and 220 g at the time of first treatment with herv Hervchoke. They were grouped normal, control, Ginseng, diazepam and Hervchoke juice group. The normal ones were provide normal water and not exposed to stress. The control ones were provide normal water and exposed to stress. Ginseng, diazepam and Hervchoke juice ones were provide Ginseng extract 0.01%, diazepam 0.0005% and Hervchoke juice 5% containing water for 12 days and exposed to stress for 5 days. They were stressed by immobilization for 30 minutes and electro-shock(1mA/20 secs in mice, 5mA/20 secs in rats) for 5 minutes. At first, they were pretreated with Ginseng extract, diazepam and Hervchoke juice for 7 days, and followed by the treatments in combination with the exposure to stress for 5 days. We recorded stress related behavioral changes of experimental animals induced over stress using Etho-vision system. Grooming activity, plus maze moved distance and rearing decreased by stress were increased by treatment of Hervchoke juice. Freezing activity, plus maze-staying time in closed area increased by stress were decreased by treatment of Hervchoke juice. These results suggest that Herchoake juice protect partially the living organism from stress attack in some case.