

## Anti-Ulcer

By Steve Meyerowitz, "Sproutman"

Anti-ulcer Activity of Fractions from Juice of Young Barley Leaves. By H. Ohtake, H. Yuasa, C. Komura, T. Miyauchi, Y. Hagiwara and K. Kubota. Issued from Pharmaceutical Society of Japan.

Until now, no evidence has been reported that pharmacologically demonstrates that grass juice can prevent peptic ulcers. This experiment created stomach ulcers in rats and then cured them with barley grass juice in 3-4 days. Rats were induced with different types of ulcers; treated with grass juice fractions, then cut open and the condition of the ulcers inspected. Seven different fractions of spray dried, green barley grass powder were tested along with a control.

Green barley juice revealed significant anti-ulcer activity in the various ulcers and one fraction "P4D1 significantly promoted the healing of the gastric ulcer induced by an injection of dilute ascetic acid into the gastric wall of the rats." On stress induced ulcers, all fractions of the barley grass exerted "significant anti-ulcer effects." The water soluble fraction GM-L exhibited the highest activity on stressed induced ulcers. Three fractions proved significant anti-ulcer agents against aspirin induced ulcers. None of the grass factors influenced aspirin absorption, gastric secretion of acid and pepsin. So their anti-ulcer action is not a function of suppressed gastric secretion.

The fractions were composed of water soluble substances of chlorophyll, denatured protein, polysaccharides, amino acids, high molecular substances and insoluble substances. "It is unlikely that green barley juice exerts its anti-ulcer action via affecting the attacking factors of the ulcer, but suggested that the effects on the movement and blood flow in the stomach and the defense ability of the stomach mucosa are associated with its anti-ulcer activity."

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