Hepatoprotective Effects of Buckwheat Extract in Rabbits Fed on a High-fat Diet

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Cited in:

Acta Medica et Biologica Vol. 44(3): 147-151, 1996

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Received Februmy 20 1996

Summary

The effect of buckwheat extract (BE) on the content of total cholesterol~ triglyceride and ascorbate free radicals in liver homogenate~ and on macroscopic and microscopic pictures of the liver in animals receiving a high-fat diet (HFD) was observed. Male mongrel rabbits were randomly divided into three groups: 1) control~ 2) animals given HFD containing cholesterol and coconut oil, 3) rabbits treated with HFD + BE over a period of 12 weeks. Contents of total cholesterol and triglyceride in the liver of animals on BE decreased. The number of ascorbate free radicals, examined in vitro~ in the liver of these animals was markedly elevated. Protective effect of BE against changes induced in the liver of animals receiving a HFD was confirmed by macroscopic and microscopic examination of the organ.

Key words-buckwheat, hepatoprotection.

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