

P16

A Efficacy of *Ginseng Radix Palva* on Osteoporosis in Ovariectomized Rats

Boohyeong Byun* and Bu-il Seo

Dept of Oriental Medicine, Daegu Hanny University , Daegu 706-060 Korea

Abstract

This study was undertaken to investigate the effects of the *Ginseng radix palva* in osteoporosis of the ovariectomized rats. In this experiment, the rats were ovariectomized and administered the water extracts of the *Ginseng radix Palva* . The spinal bone mineral density, calcium, phosphorus and ash weight of the bones were measured. The spinal bone mineral density was significantly increased in the ovariectomized(OVX)-*Ginseng Radix palva* group at 8 weeks as compared to the OVX-saline group. Furthermore, the calcium and phosphorus contents of the femoral and fibula-tibia were significantly increased in the OVX-*Ginseng Radix Palva* group as compared to the OVX-saline group. The ash weights of the femoral and fibula-tibial bones were increases in the OVX-*Ginseng Radix Palva* group, although it was not statistically significant. On reviewing these experiments, it appears that the *Ginseng radix Palva* possess efficacy for the prevention of osteoporosis. Further study would be of value to confirm the efficacy of the *Ginseng radix Palva* for the treatment and/or prevention of osteoporosis in humans.

Key words: *Ginseng radix*, Ovariectomized rats, Osteoporosis, Bone Mineral Density