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Title: Oral administration of kaempferol inhibits bone loss in rat model of ovariectomy-induced osteopenia

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Abstract

Background: Postmenopausal osteoporosis and osteoporotic fractures constitute an increasing problem in developing countries. Kaempferol, isolated from seeds of *Cuscuta chinensis*, is an active flavonoid inhibiting *in vitro* osteoclast activity. The aim of the presented research was an assessment of kaempferol effect on estrogen-deficiency-induced bone structure disturbances in rats.

Methods: The study was performed on 24 Wistar female rats divided into 3 groups: SHAM – rats undergoing a “sham” surgery, OVX-C – control group of animals that underwent ovariectomy, OVX-K - rats undergoing ovariectomy and receiving kaempferol for 8 weeks (from day 56 to day 112).

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