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Effects of Remifemin Treatment on Bone Integrity and Remodeling in Rats with Ovariectomy-Indu

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Effects of remifemin treatment on bone integrity and remodeling in rats with ovariectomy-induced osteoporosis.

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Abstract

This study aims to evaluate the **effects** of **Remifemin** (isopropanolic extract of *Cimicifuga Racemosa*) on postmenopausal **osteoporosis**. 120 female Sprague-Dawley **rats** were randomly assigned to four groups: sham surgery with vehicle, ovariectomy with vehicle, ovariectomy with estradiol valerate, or ovariectomy with **Remifemin**. Daily oral administrations of the vehicle, estradiol valerate, or **Remifemin** began 2 weeks after surgery and lasted to 4, 8, or 12 weeks. Ten **rats** in each group were sacrificed at each timestep with assessment of **bone** mineral density, trabecular **bone** structure, and biomechanical parameters of the femur and lumbar vertebra. **Bone** turnover markers were evaluated 12 weeks after surgery. Both drugs prevented **bone** density loss in the distal end of the femur and preserved the trabecular **bone** structure in both the lumbar vertebra and distal end of the femur following ovariectomy. Both drugs protected **bone** stiffness at the tested regions and reduced **bone** reabsorption in ovariectomized **rats**. The preventive **effects** of **Remifemin** against **bone**-loss can rival those of estradiol valerate if **treatment** duration is adequately extended. In conclusion, **Remifemin** may demonstrate equivalent **effects** to estradiol valerate in terms of preventing postmenopausal **osteoporosis**.

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