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Effect of osteoporosis treatment agents on the cortical bone osteocyte microenvironment in adult estrogen-deficient, osteopenic rats

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**Highlights**

1. Treatment of osteopenic, estrogen-deficient adult rats with neither standard osteoporosis monotherapies, nor several combinations of sequential therapy, alters the stiffness of cortical bone tissue around osteocyte lacunae.
2. Perilacunar cortical bone tissue is not as stiff as bone matrix further from osteocyte lacunae. Whole bone material properties are negatively correlated to the stiffness of perilacunar bone tissue.

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