

**Tofupill/Femarelle (DT56a): a new phyto-selective estrogen receptor modulator-like substance for the treatment of postmenopausal bone loss.**

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**OBJECTIVE:** To evaluate the efficacy of Tofupill/Femarelle (DT56a), a novel phyto-selective estrogen receptor modulator (SERM), in preserving bone mineral density (BMD) in postmenopausal women. **DESIGN:** The study sample consisted of 98 healthy, postmenopausal women who were randomly allocated, on a double-blind basis, to receive either 644 mg/d DT56a (study group) or 344 mg/d DT56a supplemented with calcium (low-dose group) for 12 months. Each participant was assessed with a comprehensive health questionnaire, a detailed physical, and laboratory and pelvic sonogram examinations at entry and every 3 months thereafter. BMD was assessed by dual-energy x-ray absorptiometry (Lunar) of the lumbar spine and femoral neck before the study began and after 12 months of treatment. **RESULTS:** After 12 months of treatment, BMD had increased in the study group by 3.6% in the lumbar spine ( $P = 0.039$ ) and by 2.0% in the femoral neck (NS). In the low-dose group, BMD had decreased in the lumbar spine by 0.6% (NS) and by 0.6% in the femoral neck (NS). Comparison of the change in bone density between the groups yielded a significant difference for the lumbar spine ( $P = 0.037$ ). Neither group showed a change in endometrial thickness and sex hormone levels nor reported any side effects of treatment. **CONCLUSIONS:** Tofupill treatment in postmenopausal women increases BMD without unwanted estrogenic effect. Tofupill appears to be a promising phyto-SERM for the prevention of postmenopausal osteoporosis.