Effect of Daily Activity on Prevention of Osteoporosis

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ABSTRACT

We examined the age-related changes in walking steps in daily lives, calcitropic hormones and nutritional status in female elderly, and evaluated daily activity to prevent osteoporosis. Subjects were 16 healthy residents of an old people's home aged 68 to 83 years.

The results obtained were as follows:
1) There was a significant decrease in walking steps with age, but calcitropic hormones and nutritional status did not show age-related changes.
2) There were no relations between deoxypyridinoline (D-Pyr) as marker of bone resorption and both walking steps and nutritional status.
3) In subjects who did not intake adequate nutrients to the high activity, the level of D-Pyr was increased.

These results indicate that too much daily activity seems to lead higher bone resorption in the elderly. Therefore, moderate exercise and maintaining a well-nourished status should be considered as important factors to prevent osteoporosis.