

Teriparatide ups bone union for women with osteoporosis

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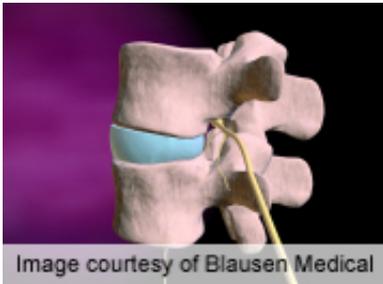


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Injections of teriparatide are more effective than oral bisphosphonate for bone union after instrumented lumbar posterolateral fusion in women with postmenopausal osteoporosis, according to a study published in the Nov. 1 issue of *Spine*.

(HealthDay)—Injections of teriparatide are more effective than oral bisphosphonate for bone union after instrumented lumbar posterolateral fusion in women with postmenopausal osteoporosis, according to a study published in the Nov. 1 issue of *Spine*.

Seiji Ohtori, M.D., Ph.D., from Chiba University in Japan, and colleagues examined the clinical efficacy of teriparatide for bone union in 57 women with osteoporosis diagnosed with degenerative spondylolisthesis who underwent decompression and one- or two-level instrumented posterolateral fusion with a local [bone graft](#). Patients were divided into a teriparatide treatment group (29 patients receiving daily subcutaneous injection of 20 µg teriparatide) or [bisphosphonate](#) group (28 women receiving weekly oral administration of 17.5 mg of risedronate).

The researchers found that pain scores improved after surgery but that there were no significant between-group differences. In the teriparatide group, the rate of bone union was 82 percent, compared with 68 percent in the bisphosphonate group, and the average duration of bone union was

eight and 10 months, respectively. Both the rate of bone union and average duration of bone union were significantly superior in the teriparatide group versus the bisphosphonate group.

"The teriparatide-treated patients showed superior results in the rate of bone union and average duration of bone union compared with the bisphosphonate-treated patients," the authors write. "We think that [teriparatide](#) can enhance [spinal fusion](#) in patients with osteoporosis."

More information: [Abstract](#)
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