Young Scientists’ Pages

Osteoporotic vertebral compression fractures: The effect of Vertebroplasty and Kyphoplasty including local kyphosis correction on pain relief

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Abstract

Vertebral compression fractures (VCFs) are the most common complication of osteoporosis. Most of the times VCFs lead the patients to the health care system because of the severe pain and many of them require surgical approaches for pain relief. Percutaneous vertebroplasty (PVP) and balloon kyphoplasty (BK) represent two surgical procedures involving percutaneous injection of bone cement into a collapsed vertebra. The aim of these two techniques is to restore vertebral height and to provide pain relief. Percutaneous vertebroplasty may provide correction of the local kyphosis, however it does not seem to play an important role on pain relief. We reviewed reports of these two procedures in patients with osteoporosis. Most of the case reports suggested that an over 67% relief of patients symptoms, but there are also complications which are relative to these methods. Some of these complications include new VCFs in adjacent adjacent levels as well as pain due to cement extravasation.

**Key Words: Vertebral fractures; Osteoporosis; Vertebroplasty; Kyphoplasty**

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