Perkutan vertebroplastik och ballongkyfoplastik vid ryggsmarta pga kotkompression som orsakats av osteoporos [Percutaneous vertebroplasty and balloon kyphoplasty in treating painful osteoporotic vertebral compression fractures]

Swedish Council on Technology Assessment in Health Care

Citation

Authors' objectives
Are percutaneous vertebroplasty and balloon kyphoplasty safe and effective methods of treating severe back pain caused by osteoporotic vertebral compression when conventional, nonsurgical options do not provide adequate pain relief? What do the treatments cost? Are they cost-effective?

Authors' conclusions
The scientific evidence is insufficient to determine if percutaneous vertebroplasty or balloon kyphoplasty yield better outcomes than nonsurgical strategies or placebo in treating symptomatic vertebral compression fractures due to osteoporosis. Cement leakage is common with both methods. Although it usually causes no symptoms, the clinical significance of such leakage is not fully investigated. The scientific evidence is insufficient to determine the cost-effectiveness of percutaneous vertebroplasty and balloon kyphoplasty. Randomised and blinded trials should be conducted, but such trials are associated with substantial methodological problems. Long-term evaluation of the methods' effects and risks would require systematic follow-up, e.g. via a national quality registry.

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