

## Chirurgie von Wirbelkörperfrakturen

### Chirurgie des fractures vertébrales

#### Literatur / Références

1. Cooper C, Atkinson EJ, O`Fallon WM, Melton LJ 3rd. Incidence of clinically diagnosed vertebral fractures: a population-based study in Rochester, Minnesota, 1985–1989. *J Bone Miner Res.* 1992;7(2):221–7.
2. Johnell O, Kanis JA, Odèn A, Sernbo I, Redlund-Johnell I, Petterson C, et al. Mortality after osteoporotic fractures. *Osteoporos Int.* 2004;15(1):38–42.
3. Duval-Beaupere G, Schmidt C, Cosson P. Barycentremetric study of the sagittal shape of spine and pelvis: the conditions required for an economic standing position. *Ann Biomed Eng.* 1992;20(4):451–62.
4. Le Huec JC, Aunoble S, Philippe L, Nicolas P. Pelvic parameters: origin and significance. *Eur Spine J.* 20 Suppl 5: 564–71.
5. Roussouly P, Berthonnaud E, Dimnet J. [Geometrical and mechanical analysis of lumbar lordosis in an asymptomatic population: proposed classification]. *Rev Chir Orthop Reparatrice Appar Mot.* 2003;89(7):632–9.
6. Stagnara, P, De Mauroy JC, Dran G, Gonon GP, Costanzo G, Dimnet J, et al. Reciprocal angulation of vertebral bodies in a sagittal plane: approach to references for the evaluation of kyphosis and lordosis. *Spine (Phila Pa 1976).* 1982;7(4): 335–42.
7. Heaney R. The natural history of vertebral osteoporosis: is low bone mass an epiphénomène? *Bone.* 1992;suppl 2:23–26.
8. Briggs AM, Greig AM, Wark JD. The vertebral fracture cascade in osteoporosis: a review of aetiopathogenesis. *Osteoporos Int.* 2007;18(5):575–84.
9. Ross PD, Davis JW, Epstein RS, Wasnich RD. Pre-existing fractures and bone mass predict vertebral fracture incidence in women. *Ann Intern Med.* 1991;114(11):919–23.
10. Silverman SL. The clinical consequences of vertebral compression fracture. *Bone.* 1992; 13 Suppl 2:27–31.
11. Schlaich C, Minne HW, Bruckner T, Wagner G, Gebest HJ, Grunze M, et al., Reduced pulmonary function in patients with spinal osteoporotic fractures. *Osteoporos Int.* 1998;8(3):261–7.
12. Leech JA, Dulberg C, Kellie S, Pattee L, Gay J. Relationship of lung function to severity of osteoporosis in women. *Am Rev Respir Dis.* 1990;141(1):68–71.
13. Edidin AA, Ong KL, Lau E, Kurtz SM. Mortality risk for operated and nonoperated vertebral fracture patients in the medicare population. *J Bone Miner Res.* 2011;26(7):1617–26.
14. Voormolen MH, Lohle PN, Lampmann LE, van den Wildenberg W, Juttmann JR, Diekerhof CH, et al. Prospective clinical follow-up after percutaneous vertebroplasty in patients with painful osteoporotic vertebral compression fractures. *J Vasc Interv Radiol.* 2006;17(8):1313–20.
15. Majd ME, Farley S, Holt RT. Preliminary outcomes and efficacy of the first 360 consecutive kyphoplasties for the treatment of painful osteoporotic vertebral compression fractures. *Spine J.* 2005;5(3):244–55.
16. Grados F, Depriester C, Cayrolle G, Hardy N, Deramond H, Fardellone P. Long-term observations of vertebral osteoporotic fractures treated by percutaneous vertebroplasty. *Rheumatology (Oxford).* 2000;39(12):1410–4.
17. Heini PF, Berlemann U. Bone substitutes in vertebroplasty. *Eur Spine J.* 2001;10 Suppl 2:205–13.
18. McGraw JK, Cardella J, Barr JD, Mathis JM, Sanchez O, Schwartzberg MS, et al. Society of Interventional Radiology quality improvement guidelines for percutaneous vertebroplasty. *J Vasc Interv Radiol.* 2003;14(7):827–31.
19. Nussbaum DA, Gailloud P, Murphy K. A review of complications associated with vertebroplasty and kyphoplasty as reported to the Food and Drug Administration medical device related web site. *J Vasc Interv Radiol.* 2004;15(11):1185–92.
20. Lee BJ, Lee SR, Yoo TY. Paraplegia as a complication of percutaneous vertebroplasty with polymethylmethacrylate: a case report. *Spine (Phila Pa 1976).* 2002;27(19):E419–22.
21. Berlemann U, Ferguson SJ, Nolte LP, Heini PF. Adjacent vertebral failure after vertebroplasty. A biomechanical investigation. *J Bone Joint Surg Br.* 2002;84(5):748–52.
22. Baumann A, Tauss J, Baumann G, Tomka M, Hessinger M, Tiesenhausen K. Cement embolization into the vena cava and pulmonar arteries after vertebroplasty: interdisciplinary management. *Eur J Vasc Endovasc Surg.* 2006;31(5):558–61.
23. Bouza C, López T, Magro A, Navalpotron L, Amate JM. Efficacy and safety of balloon kyphoplasty in the treatment of vertebral compression fractures: a systematic review. *Eur Spine J.* 2006;15(7):1050–67.
24. Uppin AA, Hirsch JA, Centenera LV, Pfeifer BA, Pazianos AG, Choi IS. Occurrence of new vertebral body fracture after percutaneous vertebroplasty in patients with osteoporosis. *Radiology.* 2003;226(1):119–24.
25. Liebschner MA, Rosenberg WS, Keaveny TM. Effects of bone cement volume and distribution on vertebral stiffness after vertebroplasty. *Spine (Phila Pa 1976).* 2001;26(14):1547–54.

26. Hempfing A, Zenner J, Ferraris L, Meier O, Koller H. [Restoration of sagittal balance in treatment of thoracic and lumbar vertebral fractures]. Orthopade. 2011;40(8):690–702.
27. Koller H, Acosta F, Hempfing A, Rohrmüller D, Tauber M, Lederer S, et al. Long-term investigation of nonsurgical treatment for thoracolumbar and lumbar burst fractures: an outcome analysis in sight of spinopelvic balance. Eur Spine J. 2008;17(8):1073–95.