

REFERENCES

- 1- **Sivakumar Jaikumar, M.D., Daniel H. Kim, M.D., Andrew C. Kam,**
HISTORY OF MINIMALLY INVASIVE SPINE SURGERY,
Neurosurgery 51[Suppl 2]:1-14, 2002
- 2- **Parviz Kambin, MD** , Arthroscopic and Endoscopic Spinal Surgery,
Humana Press Inc., (NJ) 2005;2:29.
- 3-**Michael W. Devereaux, MD,** Anatomy and Examination of the Spine
Neurol Clin 25 (2007) 331–351.
- 4-**Levin KH, Covington EC,** Neck and low back pain. Continuum (NY)
2001;7:9.
- 5-**Jackson R.** ,The facet syndrome: myth or reality? Orthop Clin North Am
1992;279:110–21.
- 6-**Marchand F, Ahmed AM.** Investigation of the laminate structure of
lumbar disc anulus fibrosus. *Spine* 1990;15(5):402–410.
- 7-**Daniel S.J. Choy, MD** , Percutaneous Laser Disc Decompression A
Practical Guide , 2003 Springer-Verlag New York,1st ed.:31.
- 8-**Tsuji H, Hirano N, Ohshima H, Ishihara H, Terahata N, Motoe T.**
Structural variation of the anterior and posterior anulus fibrosus in the
development of human lumbar intervertebral disc. A risk factor for
intervertebral disc rupture. *Spine* 1993;18(2):204–210.

9-Schaffer JL, Kambin P. Minimally invasive spine surgery. Textbook of Rheumatology Update 1994;9:2–12.

10-Levin KH, Covington EC, Devereaux MW, Neck and low back pain. Continuum (NY) 2001;9:11.

11-Fujita K, Nakagawa T, Hirabayashi K, Nagai Y. Neutral proteinases in human intervertebral disc. Role in degeneration and probable origin. Spine 1993;18(13):1766–1773.

12-Kambin P. Arthroscopic Microdiscectomy: Minimal Intervention in Spinal Surgery R (Kambin P, ed.), Urban & Schwarzenberg, Baltimore, 1991, pp. 67–100.

13-Mirkovik SR, Schwartz DG. Anatomic considerations in posterolateral procedures. Spine 1995;20:1965–1971.

14- Perez-Cruet MJ, Fessler RG (eds): Outpatient Spinal Surgery. St. Louis, Quality Medical Publishing, Inc., 2002, pp 95–105 .

15-Kambin P, Brager M. Percutaneous posterolateral discectomy: anatomy and mechanism. Clin Orthop 1987;223:145–154.

16-Schreiber A, Leu HJ. Biportal percutaneous lumbar nucleotomy, in Spinal Surgery (Kambin P, ed.), Urban & Schwarzenberg Baltimore, 1991, pp. 67–100.

17-Andersson GBJ: Epidemiological features of chronic low-back pain.
Lancet 1999;354:581-585

18- Ashok Biyani, MD, and Gunnar B. J. Andersson, MD, Low Back Pain: Pathophysiology and Management J Am Acad Orthop Surg 2004;12:106-115.

19-Haughton V Imaging intervertebral disc degeneration. J Bone Joint Surg. Am 88 Suppl. ; 2006 2:15–20

20-Thompson JP, Pearce RH, Schechter MT, Bishop PB Preliminary evaluation of a scheme for grading the grossmorphology of the human intervertebral disc. Spine 1990 15:411–415

21-Solovieva S, Lohiniva J, Leino-Arjas P, Raininko R, Luoma K, Alakokko L, Riihimaki H; COL9A3 gene polymorphism and obesity in intervertebral disc degeneration of the lumbar spine: evidence of gene-environment interaction. Spine ,2002, 27:2691–2696

22-Herzog RJ; The radiologic assessment for a lumbar disc herniation. Spine, 1996, 21:19S–38S

23-Mundt DJ, Kelsey JL, Golden AL, Pastides H, Berg AT, Sklar J, Hosea T, PanjabiMM ;An epidemiologic study of non-occupational lifting as a risk factor for herniated lumbar intervertebral disc. Spine, 1993, 18:595–602

- 24-Adams MA, Hutton WC** ;The relevance of torsion to the mechanical derangement of the lumbar spine. *Spine*, 1981, 6:241–8
- 25- Olmarker K, Myers RR, Kikuchi S, Rydevik B** ;Pathophysiology of nerve root pain in disc herniation and spinal stenosis. In: Herkowitz HN, Dvorak J, Bell G, Nordin M, Grob D (eds) *The lumbar spine*. Lippincott Williams & Wilkins, Philadelphia, 2004, pp 11–30
- 26-Olmarker K, Rydevik B, Holm S, Bagge U** ;Effects of experimental graded compression on blood flow in spinal nerve roots. A vital microscopic study on the porcine cauda equina. *J Orthop Res* ,1989,7:817–23
- 27-Smyth MJ, Wright VJ** ;The classic: Sciatica and the intervertebral disk. An experimental study. *Clin Orthop*, 1977, 129:9–21
- 28-Norbert Boos · Max Aebi** (Editors) *Spinal Disorders Fundamentals of Diagnosis and Treatment*,2008,pp 485.
- 29-Reulen HJ, Pfaundler S, Ebeling U** ;The lateral microsurgical approach to the “extracanalicular” lumbar disc herniation. I: A technical note. *Acta Neurochir (Wien)* ,1987, 84:64–7
- 30-Masaryk TJ, Ross JS** ,;High-resolution MR imaging of sequestered lumbar intervertebral disks. *AJR Am J Roentgenol*,1988, 150:1155–62

- 31-Ring D, Johnston CE;** Pyogenic infectious spondylitis in children: the convergence of discitis and vertebral osteomyelitis. J Pediatr Orthop 1995;15:652–60
- 32- Katz JN , MD;** Lumbar disc disorders and low-back pain: socioeconomic factors and consequences. J Bone Joint Surg Am. 2006 Apr;88 Suppl 2:21-4.
- 33- Croft PR; Papageorgiou AC;** Short-term physical risk factors for new episodes of low back pain. Prospective evidence from the South Manchester Back Pain Study. Spine. 1999 Aug 1;24(15):1556-61.
- 34- Deyo RA; Weinstein JN;** Low back pain. N Engl J Med 2001 Feb 1;344(5):363-70.
- 35- Stephanie G Wheeler, MD ;** Approach to the diagnosis and evaluation of low back pain in adults Editor H Nancy Sokol, MD 17.1: January 2009 .
- 36- Morris EW; Vallance R;** Diagnosis and decision making in lumbar disc prolapse and nerve entrapment Spine. 1986 Jun;11(5):436-9.
- 37-McDonough, KA;** Low back pain. In: Office Practice of Medicine, 4th ed, Branch, WT (Ed), Saunders 2003. p.785.
- 38- Helweg-Larsen S; Sorensen PS ;** Symptoms and signs in metastatic spinal cord compression: a study of progression from first symptom until diagnosis in 153 patients. Eur J Cancer 1994;30A(3):396-8.

39-Chandrasekar, PH. Low-back pain and intravenous drug abusers. Arch Intern Med 1990; 150:1125,.

40-Chou, R, Qaseem, A, Snow, V, et al. Diagnosis and treatment of low back pain: a joint clinical practice guideline from the American College of Physicians and the American Pain Society. Ann Intern Med 2007; 147:478.

41- Ash LM; Modic MT; Effects of diagnostic information, per se, on patient outcomes in acute radiculopathy and low back pain. AJNR Am J Neuroradiol. 2008 Jun;29(6):1098-103.

42-Bradley, WG Jr, Seidenwurm, DJ, Brunberg, JA, et al. Low back pain. American College of Radiology (ACR); 2005.

43-. Beronius M; Bergman B; Andersson R ; Vertebral osteomyelitis in Goteborg, Sweden: a retrospective study of patients during 1990-95 ; Scand J Infect Dis 2001;33(7):527-32.

44-Ronald A. Lehman, Jr, MDa, ; Standard and Minimally Invasive Approaches to the Spine Orthop Clin N Am 36 (2005) 281 – 292

45- H. Michael Mayer, M.D. Ph.D.; Minimally Invasive Spine Surgery A Surgical Manual Second Edition,2006, pp;84.

46- Landreneau RJ, Mack MJ, Hazelrigg SR; Video assisted thoracic surgery: basic technical concepts and intercostal approach strategies. *Ann Thorac Surg* 2002; 54:800–807

47-Umile Giuseppe Longo, MD, Nicola Papapietro, MD, Thoracoscopy for Minimally Invasive Thoracic Spine Surgery; *Orthop Clin N Am* 40, 2009,459–464

48-McCullen GM, Criscitiello AA, Yuan HA; Principles of endoscopic techniques to the thoracic and lumbar spine. In: Mayer HM, editor. *Minimally invasive spine surgery*. Berlin: Springer-Verlag; 2006. p. 149–56.

49-Newton PO, Shea KG, Granlund KF; Defining the pediatric spinal thoracoscopy learning curve: sixty-five consecutive cases. *Spine* 2003;25(8):C1028–35.

50-Ofluoglu O. ; Minimally invasive management of spinal metastases. *Orthop Clin North Am* 2009; 40(1):155–68, viii.

51-Ruetten S, Meyer O, Godolias G. ; Endoscopic surgery of the lumbar epidural space (epiduroscopy): results of therapeutic intervention in 93 patients. *Minim Invasive Neurosurg* 2003;46(1):1–4.

52-Oskouian RJ Jr, Johnson JP, Regan JJ.; Thoracoscopic microdiscectomy. *Neurosurgery* 2002;50: 103–9.

53-Hormoz Sheikh, MD, Dino Samartzis, DSc, ; Techniques for the Operative Management of Thoracic Disc Herniation: Minimally Invasive Thoracic Microdiscectomy Orthop Clin N Am 38 ,2007; 351–361

54-Perez-Cruet MJ, Kim BS, Sandhu F, et al.; Thoracic microendoscopic discectomy. J Neurosurg Spine 2004;1:58–63.

55- Perez-Cruet MJ, Samartzis D, Fessler RG. Microendoscopic thoracic discectomy: In Perez-Cruet MJ, Khoo LT, Fessler RG, editors. An anatomical approach to minimally invasive spine surgery. St. Louis (MO): Quality Medical Publishing, Inc.; 2006:438.

56-Anthony T. Yeung, MDa,b, Christopher A. Yeung, MD; Minimally Invasive Techniques for the Management of Lumbar Disc Herniation; Orthop Clin N Am 38 (2007) 363–372.

57-Yeung AT, Yeung CA.; Advances in endoscopic disc and spine surgery: foraminal approach. Surg Technol Int 2003;11:255–63.

58-Yeung AT, Yeung CA.; In-vivo endoscopic visualization of patho-anatomy in painful degenerative conditions of the lumbar spine. Surg Technol Int 2006;15:243–56.

59- OPorter JR, Merican C, et al. ; A prospectivestudy of 100 consecutive patients using intra-operative neuromonitoring during selective endoscopic discectomy compared with a matched sample without neuromonitoring

Presented at the 5th Annual Meeting of the Spine Arthroplasty Society. New York, May 6, 2005.

60- Harms JG, Jeszenszky D. ; The unilateral, transforaminal approach for posterior lumbar interbody fusion. *Orthop Traumatol.* 1998;6:88–99.

61- Moskowitz A. ; Transforaminal lumbar interbody fusion. *Orthop Clin No Am.* 2002;33:359–366.

62- Larry T. Khoo, M.D.; Minimally invasive percutaneous posterior lumbar interbody fusion; *Neurosurgery* 51[Suppl 2]:166–181, 2002

63- Alexandre A, Coro` L, Salgado H, ; Nucleoplasty treatment of contained herniated discs. Starting a new experience. *Proceedings, 12 World Congress of Neurosurgery, Sydney, 14–18 September 2000.*

64- A. Alexandre, L. Coro` ; Percutaneous nucleoplasty for discoradicular conflict; *Advanced Peripheral Nerve Surgery and Minimal Invasive Spinal Surgery* ,2005; Springer-Verlag/Wien PP;83-86.

65-Ascher PW, Heppner F: CO2-laser in neurosurgery. *Neurosurg Rev* 7:123– 133, 1984.

66- Choy DS. Clinical experience and results with 389 PLDD procedures with the Nd:YAG laser, 1986 to 1995. *J Clin Laser Med Surg.* Jun 1995;13(3):209-13.

67-Yonezawa T, Onomura T, Kosaka R : The system and procedures of percutaneous intradiscal laser nucleotomy. *Spine* 15:1175–1185, 1990.

68-Yeung AT: Consideration for the use of the KTP laser for disc decompression and ablation, in Sherk HH (ed): *Spine: State of Art Reviews—Laser Discectomy*. Philadelphia, Hanley and Belfus, 1993, pp 67–93.

69- Patel, J, Singh, M. Laser Discectomy. *eMedicine J*. 2002 June 10; 3(6). Retrieved May 5, 2004

70-Khoo LT, Laich DT, Perez-Cruet MJ, Fessler RG: Posterior cervical microendoscopic foraminotomy, in Perez-Cruet MJ, Fessler RG (eds): *Outpatient Spinal Surgery*. St. Louis, Quality Medical Publishing Inc., 2002, pp 71–93.

71-Smith M, Foley K: Microendoscopic discectomy. *Tech Neurosurg* 3:301– 307, 1997.

72-Adamson TE: Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: Results of a new technique in 100 cases. *J Neurosurg* 95[Suppl 1]:51–57, 2001.

73-Johnson JP, Filler AG, McBride DQ, Batzdorf U: Anterior cervical foraminotomy for unilateral radicular disease. *Spine* 25:905–909, 2000.

74-Jho HD: Microsurgical anterior cervical foraminotomy for radiculopathy: A new approach to cervical disc herniation. *J Neurosurg* 84:155–160, 1996.

75-Landreneau RJ, Hazelrigg SR, Mack MJ, Dowling RD, Burke D : Postoperative pain-related morbidity: Video-assisted thoracic surgery versus thoracotomy. *Ann Thorac Surg* 56:1285–1289, 1993.

76-Visocchi M, Masferrer R, Sonntag VKH, Dickman CA: Thoracoscopic approaches to the thoracic spine. *Acta Neurochir (Wien)* 140:737–743, 1998.

77-Williams MP, Cherryman GR, Husband JE: Significance of thoracic disc herniation demonstrated by MR imaging. *J Comput Assist Tomogr* 13: 211–214, 1989.

78-Rosenthal D, Dickman CA: Thoracoscopic microsurgical excision of herniated thoracic disc. *J Neurosurg* 89:224–235, 1998.

79-Dickman CA, Rosenthal D, Regan JJ: Reoperation for herniated thoracic discs. *J Neurosurg* 91:157–162, 1999.

80-Foley KT, Smith MM: Microendoscopic discectomy. *Tech Neurosurg* 3:301–307, 1997.

81-Kambin P, Savitz MH: Arthroscopic microdiscectomy: An alternative to open disc surgery. Mt Sinai J Med 67:283–287, 2000.

82-Ramsbacher J, Brock M: Percutaneous lumbar techniques, in Perez-Cruet MJ, Fessler RG (eds): Outpatient Spinal Surgery. St. Louis, Quality Medical Publishing, Inc., 2002, pp 217–229.

83-Epstein NE: Surgically confirmed cauda equina and nerve root injury following percutaneous discectomy at an outside institution: A case report. J Spinal Disord 3:380–383, 1990.

84-Mick J. Perez-Cruet, : Complications of minimally invasive spine surgery, Neurosurgery 51[Suppl 2]:26–36, 2002

85-Ferhan Asghar , Rick Davis and Christopher M. Bono; Minimally Invasive Spine Surgery; © 2007 by Informa Healthcare USA, Inc. pp:13.

86-Fessler RG, Khoo LT.; Minimally invasive cervical microendoscopic foraminotomy: an initial clinical experience. Neurosurgery 2002; 51:36–45.

87-Mangione P, Vadier F, Senegas J. ;Thoracoscopy versus thoracotomy in spinal surgery: comparison of two paired series. Rev Chir Orthop 1999; 85:574–580.

88-Tsou PM, Yeung AT. ;Transforaminal endoscopic decompression for radiculopathy secondary to intra-canal non-contained lumbar disc herniations: outcome and technique. Spine J 2002; 2:41–48.

89-Yeung AT, Tsou, PM. ;Posterolateral endoscopic excision for lumbar disc herniation: surgical technique, outcome, and complications in 307 consecutive cases. Spine 2002; 27:722–731.

90- Christopher A. Yeung. ;Endoscopic Laminotomy, Foraminotomy, and Discectomy for Herniated Lumbar Disc; Minimally Invasive Spine Surgery edited by Alexander R. Vaccaro, Christopher M. Bono 2007. p. ;102.

91-Foley KT, Gupta SK. ;Percutaneous pedicle screw fixation of the lumbar spine: preliminary clinical results. J Neurosurg 2002; 97:7–12.

92-Lee SH, Choic WG, S.R. L, et al. ;Minimally invasive anterior lumbar interbody fusion followed by percutaneous pedicle screw fusion for isthmic spondylolisthesis. Spine 2004; 30:838–843.

93-Schwender JD, Holly LT, Rouben DP, et al.; Minimally invasive transforaminal lumbar interbody fusion (TLIF): technical feasibility and initial results. J Spinal Disord Tech 2005; 18:S1–S6.