

REFERENCES

- (1) Adams, M.A. and Hutton, W.C. (1983) :

The effect of posture on the fluid content of lumbar intervertebral disc. *Spine*. Vol-8, No.6, PP.665.

- (2) Anderson, C.E. (1956) :

Spondylolisthesis following spine fusion.
J. Bone Joint Surg. , 38-A : 1142.

- (3) Balderston, R.A.; and Bradford, D.S. (1985) :

Technique for achievement and maintenance of reduction for severe spondylolisthesis using spinous process traction wiring and external fixation of the pelvis. *Spine*, Vol. 10, No.4 : 376.

- (4) Barash, H.L et al, (1970) :

Spondylolisthesis and tight hamstrings.
J. Bone Joint Surg. 52 : 1319.

- (5) Bell, D.F.; Ehrlich, M.G.; and Zaleske, D.J. (1988) :

Treatment for symptomatic spondylolisthesis.
Clin. Orthop. 236 : 192.

- (6) Bohlman, H.H.; and Cook, S.S. (1982) :

One-stage decompression and posterolateral and interbody fusion for lumbosacral spondyloptosis through a posterior approach : report of two cases,
J. Bone Joint Surg. 64-A : 415.

- (7) Bosworth, D.M.; Fielding J.W.; and Demarest, L. et al,
(1955):

Spondylolisthesis : A critical review of a
consecutive series of cases treated by arthrodesis.
J. bone Joint Surg. 37-A : 767.

- (8) Boxall, D.; Bradford, D.S.; Winter, R.B.; and Moe, J.H.
(1979) :

Management of severe spondylolisthesis in children
and adolescents, *J. Bone Joint Surg.* 61-A : 479.

- (9) Brian, D.; Lawrence, F.; and Brian, P. (1987) :

The oblique cranial tilt view for spondylolysis.
J. Bone Joint Surg. 69-B : 421.

- (10) Brown, T.; Hanson, R.; and Yorra, A. (1957) :

Some mechanical tests on the lumbosacral spine with
particular reference to the inter-vertebral discs.
J. Bone Joint Surg., 29-A : 1135.

- (11) Buck, J.E. (1970) :

Direct repair of the defect in spondylolisthesis.
Preliminary report.
J. Bone Joint Surg., 52-B : 432.

- (12) Cailliet, R. (1986) :

Low back pain syndrome 3rd. ed. F.A. Davis Company.
Philadelphia.

- (13) Capener, N. (1932) :

Spondylolisthesis. *Br. J. Surg.* 19 - 274.

(14) Cheng, C.L.; Fang, D.; Lee, P.C.; and Leong, J.C.Y.

(1989) :

Anterior Spinal fusion for spondylolysis and isthmic spondylolisthesis, long term result in adults. *J.Bone Joint Surg.*, 71-B : 264.

(15) Cloward, R.B.(1981) :

Spondylolisthesis : Treatment by laminectomy and Posterior Interbody Fusion.

Clin, Orthop., 154 : 74.

(16) Collier, B.D; Johnson, R.P; Carrera, GF, et al. (1985) :

Painful spondylosis or spondylolisthesis studied by radiography and single - photon emission computed tomography. *Radiology*; 154 : 207-211.

(17) Dandy, D.J.; Shannon, M.J. (1971) :

Lumbosacral Subluxation.

J.Bone Joint Surg. 53-B : 578.

(18) Danielson, B.; Frennered, K.; and Irstam, L. (1988) :

Roentgenologic assessment of spondylolisthesis.

I.A study of measurement variations.

Acta Radiol., 29 : 345.

(19) De Palma, A.F., Marone, P.J. (1959) :

Spondylolysis following spinal fusion.

Clin. Orthop. 15 : 208.

(20) Dick, W.T., and Schnebel, B. (1988) :

Severe spondylolisthesis ,Reduction and internal fixation.

Clin. Orthop. 232 : 70.

(21) Dove, J. (1986) :

Internal fixation of the lumbar spine, the Hartshill rectangle, *Clin. Orthop.*, 203 : 135.

(22) Farfan, H.F. (1973) :

Mechanical disorders of the low back.

Philadelphia, Lea and Febiger.

(23) Farfan, H. (1975) :

Paper presented before the International Society for Study of Lumbar Spine. London, 1975.

(24) Farfan, H.F.; Osteria, V.; Lamy, C. (1976) :

The mechanical etiology of spondylolysis and spondylolisthesis.

Clin. Orthop., 117 : 40.

(25) Farfan, H.F. (1983) :

Biomechanics of the lumbar spine. (In) Managing low back pain.

Editor: Kirkaldy Willis, W.H, Churchill Livingstone
New York, Edinburgh. London and Melbourne.

(26) Finnson, B.E. (1980) :

Low back pain. 2nd ed, J.B. Lippincott co.

Philadelphia, Toronto.

- (27) Flynn, J.C.; Hoque, A. (1979) :

Anterior fusion of the lumbar spine : end-result study with long-term follow-up, *J. Bone Joint Surg.* 61-A:1143.

- (28) Freebody, D.; Bendall, R.; and Taylor, R.D. (1971) :

Anterior transperitoneal Lumbar fusion.
J. Bone Joint Surg., 53-B : 617.

- (29) Gargano, F.P. (1975) :

The spine. Rothman, and Simeone.
Applied anatomy of the spine.

- (30) Gill, G.G.; Manning, J.G.; and White, H.L. (1955) :

Surgical treatment of spondylolisthesis without spine fusion.
J. Bone Joint Surg., 37-A : 493.

- (31) Grenier, N.; Kressel, H.Y.; and Schiebler, M.L. (1989) :

Isthmic Spondylolysis of lumbar spine :
MR Imaging at 1.5 T1.
Musculoskeletal Radiology 170:489

- (32) Hadley, L.A. (1955) :

Bony masses projecting into the spinal canal opposite a beak in the neural arch of the fifth lumbar vertebra. *J. Bone Joint Surg.*, 37-A : 787.

- (40) Lamy, C., et al. (1975) :

The strength of the neural arch and the etiology of spondylolysis.

Orthop. Clin. North Am, 6 : 215

- (41) Laurent, L.E.; and Osterman, K. (1976) :

Operative treatment of spondylolisthesis in patients. *Clin. Orthop.*, 117 : 85.

- (42) Laurent, L.E.; and Einola, S. (1961) :

spondylolisthesis in children and adolescent.

Acta Orthop. Scand., 31 : 64.

- (43) Lee, C.K. (1983) :

Lumbar Spinal Instability (olisthesis) After Extensive Posterior spinal Decompression.

Spine, Vol. 8 : 429.

- (44) Libson, E.; Bloom, R.A. (1983) :

Anteroposterior angulated view; a new radiographic technique for the evaluation of spondylolysis.

Radiology, 149 : 315.

- (45) Louis, R. (1986) :

Fusion of the lumbar and sacral spine by internal fixation with scrow plates.

Clin. Orthop., 203 : 18.

- (46) Macnab, I. (1950) :

Spondylolisthesis with an intact neural arch : The so-called pseudospondylolisthesis.

J. Bone Joint Surg., 32 : 325.

- (47) McAfee, P.C.; and Yuan, H.A. (1982) :

Computed Tomography in spondylolisthesis.

Clin. Orthop., 166 : 62.

- (48) Mercer, W. (1983) :

Mercer's orthopaedic Syrgery, 8th. edition.

Edward Annold LTd, Bedford, London.

- (49) Meschan, I. (1946) :

Roentgenographic study of spondylolisthesis with special reference to stability determinations.

Radiology, 47 : 249.

- (50) Nochemson, A. (1966) :

The load on the lumbar discs in different position of the body. *Clin. Orthop.*, 45 : 107.

- (51) Nochemson, A.; and Evans, J. (1968) :

Some mechanical properities of the third lumbar interlaminar ligament (Ligamentum flavum)

J. Biomech. 1: 211.

- (52) Nathan, H. (1959) :

Spondylolysis : Its anatomy and mechanism of development *J. Bone Joint Surg.*, 41-A : 303.

- (53) Newman, P.H. (1963) :

Etiology of spondylolisthesis

J. Bone Joint Surg., 45-B : 39.

- (54) Newman, P.H. (1976) :

Surgical treatment for spondylolisthesis in the adult. *Clin. Orthop.*, 117 : 106.

(55) Nicol, R.; and Scott, J. (1986) :

Lytic spondylolisthesis repair by wiring.

Spine, 11 : 1027.

(56) Noback, C.R. (1944) :

The developmental anatomy of the human osseous skeleton during embryonic, fetal and circumnata periods. *Anat. Rec.* 88 : 91

(57) Panjabi, M.M. (1978) :

The physical properties and functional biomechanics of The spine(In) : Clinical biomechanics of the spine.

Editors : White, A.A., and Panjabi, M.M.,

PP : 1-41. J.B Lippincott co. Philadelphia Toronto, (1978).

(58) Pederson, A.K., and Hagen, R. (1988) :

Spondylolysis and Spondylolisthesis treatment by internal fixation and bone grafting of the defect.

J. Bone Joint Surg., 70-A : 15.

(59) Peak, R.D.; Wiltse, L.L.; Reynolds, J.B.; Thomas, J.C., Guyer, D.W.; and Widell, E.H. (1989) :

In situ arthrodesis without decompression for Grade-III or IV isthmic spondylolisthesis in adult who have severe sciatica.

J. Bone Joint Surg., 71-A : 62.

(60) Pfeil, E. (1971) :

Experimentelle Untersuchungen zur Frage der Entstehung

der Spondylolyse. *Z. Orthop.* 109 : 231.

(61) Pizzutio, P.D.; Mirenda, W.; and MacEwen, G.D. (1986) :

Posterolateral fusion for spondylolisthesis in adolescence. *J. of Ped. Orthop.*, 6 : 311.

(62) Porter, Wicks, and Ottwell, (1978) :

Diagnostic ultrasonography.

J. Bone Joint Surg., 60-B : 481.

(63) Prasad, P.; King, A.I.; and Ewing, C.L. (1974) :

The role of articular facets during + GZ acceleration. *J. Appl. Mech.*, 41 : 321.

(64) Ravichandran, G. (1980) :

A radiologic sign in spondylolisthesis.

AJR, 134 : 113.

(65) Rene Louis, (1983) :

Surgery of the spine. Surgical Anatomy and operative Approaches. Springer - Verlag, Berlin Heidelberg New York, 1983.

(66) Roche, M.R., Rowe, G.G. (1951) :

Anomalous centers of ossification for inferior articular processes of lumbar vertebrae.

Anat. Rec. 109 : 253.

(67) Roche, G.G; and Roche, M.R. (1953) :

The etiology of separate neural arch.

J. Bone Joint Surg. 35-A : 102.

- (68) Rockoff, S.D.; Sweet, E.; and Bleudtein, J. (1969) :

The relative contribution of trabecular and cortical bone to the strength of human lumbar vertebrae. *Calcif. Tissue Res.*, 3 : 163

- (69) Rosenberg, N. (1975) :

Degenerative spondylolisthesis, predisposing factors. *J. Bone Joint Surg.*, 57-A : 467.

- (70) Rosenberg, N.J. (1976) :

Degenerative spondylolisthesis.
Clin. Orthop. 117 : 112.

- (71) Roy - Camille, R.; Saillant, G.; and Mazel, ch. (1986) :

Internal fixation of the lumbar spine with pedicle screw plating. *Clin. Orthop.*, 203 : 7.

- (72) Ruge, D.; Wiltse, L.L. (1977) :

Spondylolisthesis and its treatment : Conservative treatment, fusion, with and without reduction. In *spinal Disorders - Diagnosis and Treatment*. Philadelphia, Lea & Febiger, 1977.

- (73) Schoenecker, P.L; Cole, H.O.; Herring, J.A, and Bradford, D.S. (1990) :

Cauda Equina syndrome after *in situ* arthrodesis for severe spondylolisthesis at the lumbosacral Junction. *J. Bone Joint Surg.* 72-A : 369.

- (74) Sensing, E.C. (1949) :

The early development of the human vertebral column. *Contribution to Embryology*, Vol 33, P.21, Washington, D.C., Carnegie Institute.

- (75) Shenkin, H.A., and Hash, C.J. (1979) :

Spondylolisthesis after multiple bilateral laminectomies and facetectomies for lumbar spondylosis. Follow-up review *J. New Surg* 50 : 45.

- (76) Sijbrandij, S. (1981) :

A new technique for the reduction and stabilisation of severe spondylolisthesis : a report of two cases. *J. Bone Joint Surg.*, 63-B : 266.

- (77) Sijbrandij, S. (1983) :

Reduction and stabilisation of severe spondylolisthesis: a report of three cases.

J. Bone Joint Surg., 65-B : 40.

- (78) Smith, M.D.; and Bohlman, H.M. (1990) :

Spondylolisthesis treated by a single - stage operation compining decompression with *in situ* posterolateral and anterior fusion, an analysis of eleven patients who had long - term follow - up.

J. Bone Joint Surg., 72-A : 415.

- (79) Spring, W.E. (1973) :

Spondylolisthesis - a new clinical test. Proceedings of the Australian Orthopaedics Association. *J. Bone Joint Surg.* 55-B : 229.

- (80) Stewart, T.D. (1953) :

The age incidence of neural arch defects in Alaskan natives, considered from the stand point of etiology. *J. Bone Joint Surg.* 35-A : 937.

- (81) Taillard, W.F. (1976) :

Etiology of spondylolisthesis.

Clin. Orthop., 117 : 30.

- (82) Tarvers, J.M.; and Wood, E.H. (1977) :

Diagnostic neuro - radiology, 2nd edition,

The William, and Wilkins co. Baltimor, P. 1092.

- (83) Troup, D. (1976) :

Mechanical factors in spondylolisthesis and
spondylolysis. *Clin. Orthop.* 117 : 59.

- (84) Turner, H.; Bianco, A.J. (1971) :

Spondylolysis and spondylolisthesis in children and
teenagers. *J. Bone Joint Surg.* 53-A : 1298.

- (85) Unander - Scharin, L. (1950) :

A case of spondylolisthesis lumbalis acquisita.

Acta Orthop. Scand. 19 : 536.

- (86) Watkins, M.B. (1964) :

Posterolateral fusion in pseudarthrosis and posterior
element defect of the lumbosacral spine.

Clin. Orthop., 35 : 80.

- (87) Wiltse, L.L. (1961) :

Spondylolisthesis in children.

Clin. Orthop., 21 : 156.

- (88) Wiltse, L.L. (1957) :

Etiology of spondylolisthesis.

Clin. Orthop., 10 : 45.

- (89) Wiltse, L.L. (1962) :

The etiology of spondylolisthesis.

J. Bone Joint Surg., 44-A : 539.

- (90) Wiltse, L.L.; and Hutchinson, R.H. (1964) :

Surgical treatment of spondylolisthesis.

Clin. Orthop. 35 : 116.

- (91) Wiltse, L.L.; Bateman, J.G.; Hutchinson, R.H., and
Nelson, W.E. (1968) :

The paraspinel sacrospinalis - splitting approach
to the lumbar spine.

J. Bone Joint Surg., 50-A : 919.

- (92) Wiltse, L.L.; Widell, E.H., Jr.; and Jackson, D.W.
(1975) :

Fatigue fracture : the basic lesion in isthmic
spondylolisthesis.

J. Bone Joint Surg., 57-A : 17.

- (93) Wiltse, L.L.; and Jackson, D.W. (1976) :

Treatment of spondylolisthesis and spondylolysis in
children. *Clin. Orthop.*, 117 : 92.

- (94) Wiltse, L.L.; Newman, P.H.; and Macnab, I. (1976) :

Classification of spondylolysis and
spondylolisthesis. *Clin. Orthop.*, 117 : 23.

- (95) Wiltse, L.L.; and Winter, R.B. (1983) :

Terminology and measurement of spondylolisthesis.

J. Bone Joint Surg., 65-A : 768.