***Lumbar Spondylolisthesis***

Fredrickson BE, Baker D, McHolick WJ, Yuan HA, Lubicky JP. The natural history of spondylolysis and spondylolisthesis.  *J Bone Joint Surg Am*. 1984;66(5):699-707.

Herkowitz HN, Kurz LT. Degenerative lumbar spondylolisthesis with spinal stenosis. A prospective study comparing decompression with decompression and intertransverse process arthrodesis. *J Bone Joint Surg Am.* 1991;73(6):802-808.

Fishgrund JS, Mackay M, Herkowitz HN, Brower R, Montgomery DM, Kurz LT.

1997 Volvo Award winner in clinical studies. Degenerative lumbar spondylolisthesis with spinal stenosis: a prospective, randomized study comparing decompressive laminectomy and arthrodesis with and without spinal instrumentation.

*Spine.* 1997;22(24):2807-2812.

Epstein NE. Decompression in the surgical management of degenerative spondylolisthesis: Advantages of a conservative approach in 290 patients. *J Spinal Disord*. 1998;11(2):116-122.

Abdu WA, Lurie JD, Spratt KF, Tosteson ANA, Zhao W, Tosteson TD, et al. Degenerative Spondylolisthesis. Does fusion method influence outcome? Four-year results of the Spine Patient Outcomes Research Trial. *Spine.* 2009;34(21): 2351–2360.

Weinstien JN, Lurie JD, Tosteson TD, Zhao W, Blood EA, Tosteson ANA. Surgical compared with nonoperative treatment for lumbar degenerative spondylolisthesis. Four-year results in the Spine Patient Outcomes Research Trial (SPORT) randomized and observational cohorts. *J Bone Joint Surg Am*. 2009;91:1295-1304.

Kepler CK, Hilibrand AS, Sayadipour A, Koerner JD, Rihn JA, Radcliff KE, et al. Clinical and radiographic degenerative spondylolisthesis (CARDS) classification. *Spine J*. 2015;15(8):1804-1811.

Ghogawala Z, Dziura J, Butler WE, Dai F, Terrin N, Magge SN, et al. Laminectomy plus fusion versus laminectomy alone for lumbar spondylolisthesis. *N Engl J Med*. 2016;374(15):1424-1434.

Joaquim AF, Milano JB, Ghizoni E, Patel AA. Is There a Role for Decompression Alone for Treating Symptomatic Degenerative Lumbar Spondylolisthesis?: A Systematic Review. *Clin Spine Surg*. 2016 Jun; 29(5):191-202.

***Thoracolumbar Trauma***

Denis F. Spinal instability as defined by the three-column spine concept in acute spinal trauma. *Clin Orthop Rel Res*. 1984;189:65-76.

McCormack T, Karaikovic E, Gaines RW. The load sharing classification of spine fractures. *Spine.* 1994;19(15):1741-1744.

Wood K, Buttermann G, Mehbod A, Garvey T, Jhanjee R, Sechriest V, et al. Operative compared with nonoperative treatment of a thoracolumbar burst fracture without neurological deficit. A prospective, randomized study. *J Bone Joint Surg Am.* 2003;85-A(5):773-781. Erratum in: *J Bone Joint Surg Am*. 2003;86-A(6):1283.

Bailey CS, Dvorak MF, Thomas KC, Boyd MD, Paquett S, Kwon BK, et al. Comparison of thoracolumbosacral orthosis and no orthosis for the treatment of thoracolumbar burst fractures: interim analysis of a multicenter randomized clinical equivalence trial. *J Neurosurg Spine.* 2009;11(3):295-303.

Vaccaro AR, Oner C, Kepler CK, Dvorak M, Schnake K, Bellabarba C, et al. AOSpine thoracolumbar spine injury classification system. Fracture description, neurological status, and key modifiers. *Spine*. 2013;38(23):2028-2037.

Vaccaro AR, Schroeder GD, Kepler CK, Oner FC, Vialle LZ, Kandziora F, et al. The surgical algorithm for the AOSpine thoracolumbar spine injury classification system. *Eur Spine J*. 2016;256:1087-1094.

Rajasekaran S, Vaccaro AR, Kanna RM, Schroeder GD, Oner FC, et al. The Value of CT and MRI in the classification and surgical decision-making among spine surgeons in thoracolumbar spinal injuries. *Euro Spine J.* 2017 May; 26(5): 1463-1469.

Vaccaro AR, Schroeder GD, Kepler CK, Oner FC, et al. The surgical algorithm for the AOSpine thoracolumbar spine injury classification system. *Eur Spine J*. 2016 Apr;25(4):1087-94

***Cervical Trauma***

Anderson LD, D’Alonzo RT. Fractures of the odontoid process of the axis. *JBJS-Am.* 1974;56-A(8):1663-1674.

Allen BL, Ferguson RL, Lehmann TR, O’Brien RP. A mechanistic classification of closed, indirect fractures and dislocations of the lower cervical spine. *Spine*. 1982;7(1):1-27.

Levine AM, Edwards CC. The management of traumatic spondylolisthesis of the axis. *J Bone Joint Surg Am*. 1985;67(2):217-226.

Cotler JM, Herbison GJ, Nasuti JF, Ditunno JF Jr, An H, Wolff BE. Closed reduction of traumatic cervical spine dislocation using traction weights up to 140 pounds. *Spine.* 1993;18(3):386-390.

Lee TT, Green BA, Petrin DR. Treatment of stable burst fracture of the atlas (Jefferson fracture) with rigid cervical collar. *Spine*. 1998;23(18):1963-1967.

Jackson RS, Banit DM, Rhyne AL 3rd, Darden BV 2nd. Upper cervical spine injuries. *J Am Acad Orthop Surg*. 2002;10(4):271-280.

Johnson MG, Fisher CG, Boyd M, Pitzen T, Oxland TR, Dvorak MF. The radiographic failure of single segment anterior cervical plate fixation in traumatic cervical flexion distraction injuries. *Spine*. 2004;29(24):2815-2820.

Vaccaro AR, Hurlbert RJ, Patel AA, Fisher C, Dvorak M, Lehman RA Jr, et al. The subaxial cervical spine injury classification system: a novel approach to recognize the importance of morphology, neurology, and integrity of the disco-ligamentous complex. *Spine.* 2007;32(21):2365-2374.

Fehlings MG, Vaccaro A, Wilson JR, Singh A, Cadotte W, Harrop JS, et al. Early versus delayed decompression for traumatic cervical spinal cord injury: Results of the Surgical Timing in Acute Spinal Cord Injury Study (STASCIS). *PLoS One.* 2012;7(2):e32037.

Chapman J, Smith JS, Kopjar B, Vaccaro AR, Arnold P, Shaffrey CI, et al. The AOSpine North America Geriatric Odontoid Fracture Mortality Study: A retrospective review of mortality outcomes for operative versus nonoperative treatment of 322 patients with long-term follow-up. *Spine*. 2013;38(13):1098-1104.

Fehlings MG, Arun R, Vaccaro AR, Arnold PM, Chapman JR, Kopjar B. Predictors of treatment outcomes in geriatric patients with odontoid fractures. AOSpine North America multi-centre prospective GOF study. *Spine*. 2013;38(11):881-886.

Smith JS, Kepler CK, Kopjar B, Harrop JS, Arnold P, Chapman JR, et al. Effect of type II odontoid fracture nonunion on outcome among elderly patients treated without surgery. Based on the AOSpine North America Geriatric Odontoid Fracture Study. *Spine*. 2013;28(26):2240-2246.

Kepler CK, Vaccaro AR, Chen E, Patel AA, Ahn H, Nasser A, et al. Treatment of isolated cervical facet fractures: A systematic review. *J Neurosurg Spine*. 2016;24:347-354.

***Rheumatoid Arthritis of the Spine***

Pellici PM, Ranawat CS, Tsairis P, Bryan WJ. A prospective study of the progression of rheumatoid arthritis of the cervical spine. *J Bone Joint Surg Am*. 1981;63(3):342-350.

Boden SD, Dodge LD, Bohlman HH, Rechtine GR. Rheumatoid arthritis of the cervical spine. A long-term analysis with predictors of paralysis and recovery. *J Bone Joint Surg Am*. 1993;75(9):1282-1297.

***Cervical Degenerative Disease***

Smith GW, Robinson RA. The treatment of certain cervical-spine disorders by anterior removal of the intervertebral disc and interbody fusion. *J Bone Joint Surg Am*. 1958;40(3):607-624.

Lees F, Turner JWA. Natural history and prognosis of cervical spondylosis. *Br Med J*. 1963:1607-1610.

Hilibrand AS, Carlson GD, Palumbo MA, Jones PK, Bohlman HH. Radiculopathy and myelopathy at segments adjacent to the site of a previous anterior cervical arthrodesis. *J Bone Joint Surg Am*. 1999;81(4):519-528.

Wang JC, Hart RA, Emery SE, Bohlman HH. Graft migration or displacement after multilevel cervical corpectomy and strut grafting. *Spine*. 2003;28(10):1016-1021; discussion 1021-1022.

Fehlings MG, Smith JS, Kopjar B, Arnold PM, Yoon ST, Vaccaro AR, et al. Perioperative and delayed complications associated with the surgical treatment of cervical spondylotic myelopathy based on 302 patients from the AOSpine North America Cervical Spondylotic Myelopathy Study. *J Neurosurg Spine*. 2012;16(5):425-432.

Fehlings MG, Jha NK, Hewson SM, Massicotte EM, Kopjar B, Kalsi-Ryan S. Is surgery for cervical spondylotic myelopathy cost-efective? A cost-utility analysis based on data from the AOSpine North America prospective CSM study. *J Neurosurg Spine*. 2012;17:89-93.

Fehlings MG, Wilson JF, Kopjar B, Yoon ST, Arnold PM, Massicotte EM, et al. Efficacy and safety of surgical decompression in patients with cervical spondylotic myelopathy. Results of the AOSpine North America prospective multi-center study. *J Bone Joint Surg Am*. 2013;95(18):1651-1658.

Fehlings MG, Barry S, Kopjar B, Yoon ST, Arnold P, Massicotte EM, et al. Anterior versus posterior surgical approaches to treat cervical spondylotic myelopathy: Outcomes of the prospective multicenter AOSpine North America CSM study in 264 patients. *Spine*. 2013;38(26):2247-2252.

***Lumbar Degenerative Disease***

Waddel G, McCulloch JA, Kummel E, Venner RM. Nonorganic physical signs in low-back pain. 1979 Volvo Award in Clinical Science. *Spine*. 1980;5(2):117-125.

Boden SD, Davis DO, Dina TS, Patronas NJ, Wiesel SW. Abnormal magnetic-resonance scans of the lumbar spine in asymptomatic subjects. A prospective investigation. *J Bone Joint Surg Am*. 1990;72:403-48.

Carragee EJ, Chen Y, Tanner CM, Truong T, Lau E, Brito JL. Provocative discography in patients after limited lumbar discectomy: A controlled, randomized study of pain response in symptomatic and asymptomatic subjects. Spine. 2000;25(23):3065-3071.

Fritzell P, Hagg O, Wessberg P, Nordwall A; Swedish Lumbar Spine Study Group. 2001 Volvo Award Winner in Clinical Studies: Lumbar fusion versus nonsurgical treatment for chronic low back pain: a multicenter randomized controlled trial from the Swedish Lumbar Spine Study Group. Spine. 2001 Dec 1;26(23):2521-32; discussion 2532-2534

[Borenstein DG, O'Mara JW Jr, Boden SD, Lauerman WC, Jacobson A, Platenberg C, Schellinger D, Wiesel SW.](http://www.ncbi.nlm.nih.gov/pubmed/11568190?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum) The value of magnetic resonance imaging of the lumbar spine to predict low-back pain in asymptomatic subjects: a seven-year follow-up study. J Bone Joint Surg Am. 2001 Sep;83-A(9):1306-1311.

***Spinal Stenosis***

Kirkaldy-Willis WH, Wedge JH, Yong-Hing K, Reilly J. Pathology and pathogenesis of lumbar spondylosis and stenosis. *Spine*. 1978;3(4):319-328.

Weinstein JN, Tosteson TD, Lurie JD, tosteson AN, Blood E, Hanscom B, et al. Surgical versus nonsurgical therapy for lumbar spinal stenosis. *N Engl J Med*. 2008;358(8):794-810.

Lurie JD, Tosteson TD, Tosteson, A, Abdu WA, Zhao W, Morgan TS et al. Long-term outcomes of lumbar spinal stenosis: Eight-year results of the Spine Patient Outcomes Research Trial (SPORT). *Spine*. 2015;40(2):63-76.

Atlas SJ, Keller RB, Wu YA, Deyo RA, Singer DE. Long-term outcomes of surgical and nonsurgical management of lumbar spinal stenosis: 8 to 10 year results from the Maine lumbar spine study. *Spine.* 2005;30(8):936-943.

Försth P, Ólafsson G, Carlsson T, Frost A, Borgström F, Fritzell P, Öhagen P, Michaëlsson K, Sandén B. A Randomized, Controlled Trial of Fusion Surgery for Lumbar Spinal Stenosis. *N Engl J Med*. 2016 Apr 14;374(15):1413-23.

Ghogawala Z, Barker FG 2nd, Benzel EC. Fusion Surgery for Lumbar Spinal Stenosis. *N Engl J Med*. 2016 Aug 11;375(6):600-1.

Ulrich NH, Burgstaller JM, Pichierri G, Wertli MM, Farshad M, Porchet F, Steurer J, Held U; LSOS Study Group. Decompression Surgery Alone Versus Decompression Plus Fusion in Symptomatic Lumbar Spinal Stenosis: A Swiss Prospective Multi-center Cohort Study with 3 Years of Follow-up. *Spine* (Phila Pa 1976). 2017 Jan 13 [Epub ahead of print].

***Lumbar Disc Herniation***

Weber H. Lumbar disc herniation. A controlled, prospective study with ten years of observation. 1982 Volvo Award in Clinical Science. *Spine*. 1983;8(2):131-140.

Castellvi AE, Goldstein LA, Chan DPK. Lumbosacral transitional vertebrae and their relationship with lumbar extradural defects. *Spine*. 1984;9(5):493-495.

[Pearson AM, Blood EA, Frymoyer JW, Herkowitz H, Abdu WA, Woodward R, Longley M, Emery SE, Lurie JD, Tosteson TD, Weinstein JN.](http://www.ncbi.nlm.nih.gov/pubmed/18277876?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum) SPORT lumbar intervertebral disk herniation and back pain: does treatment, location, or morphology matter? Spine. 2008 Feb 15;33(4):428-35.

Lurie JD, Tosteson TD, Tosteson AN, Zhao W, Morgan TS, Abdu WA, et al. Surgical versus nonoperative treatment for lumbar disc herniation: Eight-year results for the Spine Patient Outcomes Research Trial. *Spine*. 2014;39(1):3-16.

***Spinal Tumors***

[Patchell RA, Tibbs PA, Regine WF, Payne R, Saris S, Kryscio RJ, Mohiuddin M, Young B.](http://www.ncbi.nlm.nih.gov/pubmed/16112300?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum) Direct decompressive surgical resection in the treatment of spinal cord compression caused by metastatic cancer: a randomised trial. Lancet. 2005 Aug 20-26;366(9486):643-8.

Berenson J, Pflugmacher R, Jarzem P, Zonder J, Schechtman K, Tillman JB, et al. Balloon kyphoplasty versus non-surgical fracture management for treatment of painful vertebral body compression fractures in patients with cancer: A multicenter, randomized controlled trial. *Lancet Oncol*. 2011;12(3):225-235.

Groves ML, Zadnik PL, Kaloostian P, Sui J, Goodwin R, Wolinsky J, et al. Epidemiological, functional and oncologic outcome analysis of spinal sarcomas treated surgically at a single institution over ten years. *Spine J*. 2014 Jul 17. pii: S1529-9430(14)00674-3. doi: 10.1016/j.spinee.2014.07.005. [Epub ahead of print].

Laufer I, Iorgulescu JB, Chapman T, Lis E, Shi W, Zhang Z, Cox BW, Yamada Y, Bilsky MH. Local disease control for spinal metastases following separation surgery and adjuvant hypofractionated or high-dose single-fraction stereotactic radiosurgery: outcome analysis in 186 patients. *J Neurosurg Spine.* 2013 Mar;18(3):207-14. doi: 10.3171/2012.11.SPINE12111.

Fisher CG, DiPaola CP, Ryken TC, Bilsky MH, Shaffrey CI, Berven SH, Harrop JS, Fehlings MG, et al. A novel classification system for spinal instability in neoplastic disease: An evidence based approach and expert consensus from the Spine Oncology Study Group. *Spine* (Phila Pa 1976). 2010 Oct 15;35(22):E1221-9.

***Spinal Deformity/Scoliosis***

Simmons EH. Kyphotic deformity of the spine in ankylosing spondylitis. *Clin Orthop Relat Res*. 1977;128:65-77.

King HA, Moe JH, Bradford DS, Winter RB. The selection of fusion levels in thoracic idiopathic scoliosis. *J Bone Joint Surg Am.* 1983;65:1302-1313.

McMaster MJ, David CV. Hemivertebra as a cause of scoliosis. *J Bone Joint Surg* *Br*. 1986;68(4):588-595.

Winter RB, Lonstein JE, Denis F. Pain patterns in adult scoliosis*. Orthop Clin North Amer*. 1988;19(2):339-345.

Lenke LG, Betz RR, Harms J, Bridwell KH, Clements DH, Lowe TG, Blanke K. Adolescent idiopathic scoliosis: A new classification to determine extent of spinal arthrodesis. *J Bone Joint Surg Am*. 2001;83:1169-1181.

Weinstein SL, Dolan LA, Spratt KF, Peterson KK, Spoonamore MJ, Ponseti IV. Health and function of patients with untreated idiopathic scoliosis: a 50-year natural history study. *JAMA.* 2003;289(5):559-567.

Glassman SD, Berfen S, Bridwell K, Horton W, Dimar JR. Correlation of radiographic parameters and clinical symptoms in adult scoliosis. *Spine*. 2005;20(6):682-688.

Lonstein JE. Scoliosis: surgical versus nonsurgical treatment*.* *Clin Orthop Relat Res*. 2006;443:248-259.

Bridwell KH. Decision making regarding Smith-Petersen vs. pedicle-subtraction osteotomy vs. vertebral column resection for spinal deformity. *Spine*. 2006;31(19-Suppl); S171-S178.

Labelle H, Mac-Thiong J, Roussouly P. Spino-pelvic sagittal balance of spondylolisthesis: A review and classification. *Eur Spine J*. 2011;20(Suppl 5):S641-S646.

Kuntz C 4th. Evaluation of spinal alignment: Part I – Coronal alignment. *Contemporary Neurosurgery*. 2013;35(14):6.

Kuntz C 4th. Evaluation of spinal alignment: Part II – Sagittal alignment. *Contemporary Neurosurgery.* 2013;35(15):6

***Spinal Techniques***

Kim YJ, Lenke LG, Bridwell KH, Cho YS, Riew KD. Free hand pedicle screw placement in the thoracic spine: is it safe? *Spine*. 2004;29(3):333-342, discussion 342.

Bridwell KH, Lewis SJ, Rinella, Lenke LG, Baldus C, Blanke K. Pedicle subtraction osteotomy for the treatment of fixed sagittal imbalance. Surgical technique. *J Bone Joint Surg Am*. 2004;86-A(Suppl 1);44-50.

Tankson C, Chutkan NB. Posterior cervical instrumentation. *Orthopedics*. 2006;29(8):695-700.

Coe JD, Vaccaro AR, Dailey AT, Skolasky RL, Sasso RC, Ludwig SC, et al. Lateral mass screw fixation in the cervical spine. A systematic review of the literature. *J Bone Joint Surg Am*. 2013;95:2136-2143.

***Complications***

Cammisa FP Jr, Eismont FJ, Breen BA. Dural laceration occurring with burst fractures and associated laminar fractures. *J Bone Joint Surg Am*. 1989;71(7):1044-1052.

Khan MH, Rihn J, Steele G, Davis R, Donaldson WF 3rd, Kang JD, et al. Postoperative management protocol for incidental dural tears during degenerative lumbar spine surgery: a review of 3,183 consecutive degenerative lumbar cases. *Spine*. 2006;31(22):2609-2613.

Radcliff KE, Sidhu GDS, Kepler CK, Gruskay J, Anderson A, Hilibrand A, et al. Complications of flat bedrest following incidental dural repair. *J Spinal Disord Tech*. 2013; Nov 8 [Epub ahead of print]. DOI:10.1097/BSD.0b013e31827d7ad8

Tan TP, Govindarajulu AP, Massicotte EM, Venkatraghavan L. Vocal cord palsy after anterior cervical spine surgery: A qualitative systematic review. *Spine J*. 2014;14(7):1332-1342.

***Additional articles***

Feinstein B, Langton JNK, Jameson RM, Schiller F. Experiments on pain referred from deep somatic tissues. *J Bone Joint Surg Am.* 1954;36:987-997.

Bono CM, Wetzel FT, North American Spine Society Executive Committee, endorsed by the North American Spine Society Section on Biologics. Black, white or gray: How different (or similar) are YODA and The Spine Journal reviews of BMP-2? *Spine J*. 2013 Sep; 13(9):1001-5. doi: 10.1016/j.spinee.2013.07.030.

Hoh DJ, Wang MY, Ritland SL. Anatomic features of the paramedian muscle-splitting approaches to the lumbar spine. *Neurosurgery*. 2010;66(Suppl 3):13-24, discussion 24-25.

Bydon M, Lin J, Machi M, Gokaslan ZL, Bydon A. The current role of steroids in acute spinal cord injury. *World Neurosurg*. 2013. Feb 20. pii: S1878-8750(13)00348-3. doi: 10.1016/j.wneu.2013.02.062.20. [ePub ahead of print]

Cheriyan T, Maier SP, Bianco K, Slobodyanyuk K, Rattenni RN, Lafage V, et al. Efficacy of tranexamic acid on surgical bleeding in spine surgery: A meta-analysis. *Spine J*. 2015;15(4):752-761

Devin CJ, Chotai S, McGirt MJ, Vaccaro AR, Youssef JA, et al. Intrawound vancomycin decreases the risk of surgical site infection after posterior spine surgery – A multicenter analysis. *Spine*. 2015; Dec 10 [Epub ahead of print]. DOI : 10.1097/BRS.0000000000001371

Abiola R, Rubery P, Mesfin A. Ossification of the posterior longitudinal ligament: Etiology, diagnosis, and outcomes of nonoperative and operative management. *Global Spine J*. 2016;6:195-204.