

References

S-5141

1. North American Spine Society. Evidence-Based Clinical Guidelines for Multidisciplinary Spine Care: Diagnosis and Treatment of Degenerative Spondylolisthesis, 2nd Edition. 2014; <https://www.spine.org/Documents/ResearchClinicalCare/Guidelines/Spondylolisthesis.pdf>. Accessed July 19, 2023.
2. North American Spine Society. Evidence-Based Clinical Guidelines for Multidisciplinary Spine Care: Diagnosis and Treatment of Degenerative Lumbar Spinal Stenosis. 2011; <https://www.spine.org/Documents/ResearchClinicalCare/Guidelines/LumbarStenosis.pdf>. Accessed July 20, 2023.
3. Katz NP, Paillard FC, Ekman E. Determining the clinical importance of treatment benefits for interventions for painful orthopedic conditions. *J Orthop Surg Res*. Feb 03 2015; 10: 24. PMID 25645576
4. Parker SL, Mendenhall SK, Shau DN, et al. Minimum clinically important difference in pain, disability, and quality of life after neural decompression and fusion for same-level recurrent lumbar stenosis: understanding clinical versus statistical significance. *J Neurosurg Spine*. May 2012; 16(5): 471-8. PMID 22324801
5. Katz JN. Surgery for lumbar spinal stenosis: informed patient preferences should weigh heavily. *Ann Intern Med*. Apr 07 2015; 162(7): 518-9. PMID 25844999
6. Försth P, Ólafsson G, Carlsson T, et al. A Randomized, Controlled Trial of Fusion Surgery for Lumbar Spinal Stenosis. *N Engl J Med*. Apr 14 2016; 374(15): 1413-23. PMID 27074066
7. Ghogawala Z, Dziura J, Butler WE, et al. Laminectomy plus Fusion versus Laminectomy Alone for Lumbar Spondylolisthesis. *N Engl J Med*. Apr 14 2016; 374(15): 1424-34. PMID 27074067
8. Inose H, Kato T, Yuasa M, et al. Comparison of Decompression, Decompression Plus Fusion, and Decompression Plus Stabilization for Degenerative Spondylolisthesis: A Prospective, Randomized Study. *Clin Spine Surg*. Aug 2018; 31(7): E347-E352. PMID 29877872
9. Geiger MF, Bongartz N, Blume C, et al. Improvement of Back and Leg Pain after Lumbar Spinal Decompression without Fusion. *J Neurol Surg A Cent Eur Neurosurg*. Mar 2019; 80(2): 81-87. PMID 30517963
10. Saltychev M, Eskola M, Laimi K. Lumbar fusion compared with conservative treatment in patients with chronic low back pain: a meta-analysis. *Int J Rehabil Res*. Mar 2014; 37(1): 2-8. PMID 23820296

11. Yi W, Tang Y, Yang D, et al. Microendoscopic discectomy versus minimally invasive transforaminal lumbar interbody fusion for lumbar spinal stenosis without spondylolisthesis. *Medicine (Baltimore)*. Jun 12 2020; 99(24): e20743. PMID 32541527
12. Lønne G, Fritzell P, Hägg O, et al. Lumbar spinal stenosis: comparison of surgical practice variation and clinical outcome in three national spine registries. *Spine J*. Jan 2019; 19(1): 41-49. PMID 29792994
13. Weinstein JN, Lurie JD, Tosteson TD, et al. Surgical vs nonoperative treatment for lumbar disk herniation: the Spine Patient Outcomes Research Trial (SPORT) observational cohort. *JAMA*. Nov 22 2006; 296(20): 2451-9. PMID 17119141
14. Fischgrund JS, Mackay M, Herkowitz HN, et al. 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 (Phila Pa 1976)*. Dec 15 1997; 22(24): 2807-12. PMID 9431616
15. Bridwell KH, Glassman S, Horton W, et al. Does treatment (nonoperative and operative) improve the two-year quality of life in patients with adult symptomatic lumbar scoliosis: a prospective multicenter evidence-based medicine study. *Spine (Phila Pa 1976)*. Sep 15 2009; 34(20): 2171-8. PMID 19752703
16. Vibert BT, Sliva CD, Herkowitz HN. Treatment of instability and spondylolisthesis: surgical versus nonsurgical treatment. *Clin Orthop Relat Res*. Feb 2006; 443: 222-7. PMID 16462445
17. Ghogawala Z, Benzel EC, Amin-Hanjani S, et al. Prospective outcomes evaluation after decompression with or without instrumented fusion for lumbar stenosis and degenerative Grade I spondylolisthesis. *J Neurosurg Spine*. Oct 2004; 1(3): 267-72. PMID 15478364
18. Epstein NE. Decompression in the surgical management of degenerative spondylolisthesis: advantages of a conservative approach in 290 patients. *J Spinal Disord*. Apr 1998; 11(2): 116-22; discussion 123. PMID 9588467
19. Deyo RA, Hickam D, Duckart JP, et al. Complications after surgery for lumbar stenosis in a veteran population. *Spine (Phila Pa 1976)*. Sep 01 2013; 38(19): 1695-702. PMID 23778366
20. Kitchen WJ, Mohamed M, Bhojak M, et al. Neurogenic claudication secondary to degenerative spondylolisthesis: is fusion always necessary?. *Br J Neurosurg*. Dec 2016; 30(6): 662-665. PMID 27437763
21. Inose H, Kato T, Onuma H, et al. Predictive Factors Affecting Surgical Outcomes in Patients with Degenerative Lumbar Spondylolisthesis. *Spine (Phila Pa 1976)*. May 01 2021; 46(9): 610-616. PMID 33428364

22. Inose H, Kato T, Sasaki M, et al. Comparison of decompression, decompression plus fusion, and decompression plus stabilization: a long-term follow-up of a prospective, randomized study. *Spine J.* May 2022; 22(5): 747-755. PMID 34963630
23. Blumenthal C, Curran J, Benzel EC, et al. Radiographic predictors of delayed instability following decompression without fusion for degenerative grade I lumbar spondylolisthesis. *J Neurosurg Spine.* Apr 2013; 18(4): 340-6. PMID 23373567
24. Austevoll IM, Gjestad R, Brox JI, et al. The effectiveness of decompression alone compared with additional fusion for lumbar spinal stenosis with degenerative spondylolisthesis: a pragmatic comparative non-inferiority observational study from the Norwegian Registry for Spine Surgery. *Eur Spine J.* Feb 2017; 26(2): 404-413. PMID 27421276
25. Austevoll IM, Hermansen E, Fagerland MW, et al. Decompression with or without Fusion in Degenerative Lumbar Spondylolisthesis. *N Engl J Med.* Aug 05 2021; 385(6): 526-538. PMID 34347953
26. Ulrich NH, Burgstaller JM, Pichierri G, et al. Decompression Surgery Alone Versus Decompression Plus Fusion in Symptomatic Lumbar Spinal Stenosis: A Swiss Prospective Multicenter Cohort Study With 3 Years of Follow-up. *Spine (Phila Pa 1976).* Sep 15 2017; 42(18): E1077-E1086. PMID 28092340
27. Lang Z, Li JS, Yang F, et al. Reoperation of decompression alone or decompression plus fusion surgeries for degenerative lumbar diseases: a systematic review. *Eur Spine J.* Jun 2019; 28(6): 1371-1385. PMID 29956000
28. Vorhies JS, Hernandez-Boussard T, Alamin T. Treatment of Degenerative Lumbar Spondylolisthesis With Fusion or Decompression Alone Results in Similar Rates of Reoperation at 5 Years. *Clin Spine Surg.* Feb 2018; 31(1): E74-E79. PMID 28671881
29. Pieters TA, Li YI, Towner JE, et al. Comparative Analysis of Decompression Versus Decompression and Fusion for Surgical Management of Lumbar Spondylolisthesis. *World Neurosurg.* May 2019; 125: e1183-e1188. PMID 30794979
30. Dijkerman ML, Overvest GM, Moojen WA, et al. Decompression with or without concomitant fusion in lumbar stenosis due to degenerative spondylolisthesis: a systematic review. *Eur Spine J.* Jul 2018; 27(7): 1629-1643. PMID 29404693
31. Yavin D, Casha S, Wiebe S, et al. Lumbar Fusion for Degenerative Disease: A Systematic Review and Meta-Analysis. *Neurosurgery.* May 01 2017; 80(5): 701-715. PMID 28327997
32. Machado GC, Ferreira PH, Yoo RI, et al. Surgical options for lumbar spinal stenosis. *Cochrane Database Syst Rev.* Nov 01 2016; 11(11): CD012421. PMID 27801521

33. Shen J, Wang Q, Wang Y, et al. Comparison Between Fusion and Non-Fusion Surgery for Lumbar Spinal Stenosis: A Meta-analysis. *Adv Ther.* Mar 2021; 38(3): 1404-1414. PMID 33491158
34. Chen B, Lv Y, Wang ZC, et al. Decompression with fusion versus decompression in the treatment of lumbar spinal stenosis: A systematic review and meta-analysis. *Medicine (Baltimore).* Sep 18 2020; 99(38): e21973. PMID 32957316
35. Wu J, Zhang J, Xu T, et al. The necessity or not of the addition of fusion to decompression for lumbar degenerative spondylolisthesis patients: A PRISMA compliant meta-analysis. *Medicine (Baltimore).* Apr 09 2021; 100(14): e24775. PMID 33832066
36. Weiss HR, Bess S, Wong MS, et al. Adolescent idiopathic scoliosis - to operate or not? A debate article. *Patient Saf Surg.* Sep 30 2008; 2(1): 25. PMID 18826571
37. Diarbakerli E, Grauers A, Danielsson A, et al. Health-Related Quality of Life in Adulthood in Untreated and Treated Individuals with Adolescent or Juvenile Idiopathic Scoliosis. *J Bone Joint Surg Am.* May 16 2018; 100(10): 811-817. PMID 29762275
38. Danielsson AJ, Nachemson AL. Radiologic findings and curve progression 22 years after treatment for adolescent idiopathic scoliosis: comparison of brace and surgical treatment with matching control group of straight individuals. *Spine (Phila Pa 1976).* Mar 01 2001; 26(5): 516-25. PMID 11242379
39. Fritzell P, Hägg O, Wessberg P, et al. 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 (Phila Pa 1976).* Dec 01 2001; 26(23): 2521-32; discussion 2532-4. PMID 11725230
40. Dunn J, Henrikson NB, Morrison CC, et al. Screening for Adolescent Idiopathic Scoliosis: Evidence Report and Systematic Review for the US Preventive Services Task Force. *JAMA.* Jan 09 2018; 319(2): 173-187. PMID 29318283
41. Sciubba DM, Yurter A, Smith JS, et al. A Comprehensive Review of Complication Rates After Surgery for Adult Deformity: A Reference for Informed Consent. *Spine Deform.* Nov 2015; 3(6): 575-594. PMID 27927561
42. Möller H, Hedlund R. Surgery versus conservative management in adult isthmic spondylolisthesis--a prospective randomized study: part 1. *Spine (Phila Pa 1976).* Jul 01 2000; 25(13): 1711-5. PMID 10870148
43. Thomas KC, Bailey CS, Dvorak MF, et al. Comparison of operative and nonoperative treatment for thoracolumbar burst fractures in patients without neurological deficit: a systematic review. *J Neurosurg Spine.* May 2006; 4(5): 351-8. PMID 16703901

44. Wood K, Buttermann G, Mehbod A, et al. Operative compared with nonoperative treatment of a thoracolumbar burst fracture without neurological deficit. A prospective, randomized study. *J Bone Joint Surg Am.* May 2003; 85(5): 773-81. PMID 12728024
45. Cheng CY, Cheng YC, Wang TC, et al. Fusion Techniques Are Related to a Lower Risk of Reoperation in Lumbar Disc Herniation: A 5-Year Observation Study of a Nationwide Cohort in Taiwan. *World Neurosurg.* Sep 2018; 117: e660-e668. PMID 29945009
46. Otani K, Kikuchi S, Sato K, et al. Does the fusion of a lumbar disk herniation improve the clinical outcome? an investigation with a minimum 10-year follow-up. *J Spinal Disord Tech.* Jun 2014; 27(4): 196-201. PMID 22820279
47. Heindel P, Tuchman A, Hsieh PC, et al. Reoperation Rates After Single-level Lumbar Discectomy. *Spine (Phila Pa 1976).* Apr 15 2017; 42(8): E496-E501. PMID 27548580
48. Castillo H, Chintapalli RTV, Boyajian HH, et al. Lumbar discectomy is associated with higher rates of lumbar fusion. *Spine J.* Mar 2019; 19(3): 487-492. PMID 29792995
49. Leven D, Passias PG, Errico TJ, et al. Risk Factors for Reoperation in Patients Treated Surgically for Intervertebral Disc Herniation: A Subanalysis of Eight-Year SPORT Data. *J Bone Joint Surg Am.* Aug 19 2015; 97(16): 1316-25. PMID 26290082
50. Martens F, Vajkoczy P, Jadik S, et al. Patients at the Highest Risk for Reherniation Following Lumbar Discectomy in a Multicenter Randomized Controlled Trial. *JB JS Open Access.* Jun 28 2018; 3(2): e0037. PMID 30280130
51. Tanavalee C, Limthongkul W, Yingsakmongkol W, et al. A comparison between repeat discectomy versus fusion for the treatment of recurrent lumbar disc herniation: Systematic review and meta-analysis. *J Clin Neurosci.* Aug 2019; 66: 202-208. PMID 31147231
52. Andrade NS, Flynn JP, Bartanusz V. Twenty-year perspective of randomized controlled trials for surgery of chronic nonspecific low back pain: citation bias and tangential knowledge. *Spine J.* Nov 2013; 13(11): 1698-704. PMID 24012430
53. Fairbank J, Frost H, Wilson-MacDonald J, et al. Randomised controlled trial to compare surgical stabilisation of the lumbar spine with an intensive rehabilitation programme for patients with chronic low back pain: the MRC spine stabilisation trial. *BMJ.* May 28 2005; 330(7502): 1233. PMID 15911537
54. Xu W, Ran B, Luo W, et al. Is Lumbar Fusion Necessary for Chronic Low Back Pain Associated with Degenerative Disk Disease? A Meta-Analysis. *World Neurosurg.* Feb 2021; 146: 298-306. PMID 33253955

55. Mirza SK, Deyo RA, Heagerty PJ, et al. One-year outcomes of surgical versus nonsurgical treatments for discogenic back pain: a community-based prospective cohort study. *Spine J*. Nov 2013; 13(11): 1421-33. PMID 23890947
56. Ohtori S, Koshi T, Yamashita M, et al. Surgical versus nonsurgical treatment of selected patients with discogenic low back pain: a small-sized randomized trial. *Spine (Phila Pa 1976)*. Mar 01 2011; 36(5): 347-54. PMID 20838371
57. Brox JI, Nygaard ØP, Holm I, et al. Four-year follow-up of surgical versus non-surgical therapy for chronic low back pain. *Ann Rheum Dis*. Sep 2010; 69(9): 1643-8. PMID 19635718
58. American Academy of Orthopaedic Surgeons (AAOS). OrthoInfo: Idiopathic Scoliosis in Children and Adolescents. 2021 April; <https://orthoinfo.aaos.org/en/diseases--conditions/idiopathic-scoliosis-in-children-and-adolescents>. Accessed July 21, 2023.
59. American Association of Neurological Surgeons (AANS). Guideline update for the performance of fusion procedures for degenerative disease of the spine. *J Neurosurg Spine*. 2014;21(1):1-139.
60. Eck JC, Sharan A, Ghogawala Z, et al. Guideline update for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 7: lumbar fusion for intractable low-back pain without stenosis or spondylolisthesis. *J Neurosurg Spine*. Jul 2014; 21(1): 42-7. PMID 24980584
61. Eck JC, Sharan A, Resnick DK, et al. Guideline update for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 6: discography for patient selection. *J Neurosurg Spine*. Jul 2014; 21(1): 37-41. PMID 24980583
62. Wang JC, Dailey AT, Mummaneni PV, et al. Guideline update for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 8: lumbar fusion for disc herniation and radiculopathy. *J Neurosurg Spine*. Jul 2014; 21(1): 48-53. PMID 24980585
63. Resnick DK, Watters WC, Sharan A, et al. Guideline update for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 9: lumbar fusion for stenosis with spondylolisthesis. *J Neurosurg Spine*. Jul 2014; 21(1): 54-61. PMID 24980586
64. Resnick DK, Watters WC, Mummaneni PV, et al. Guideline update for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 10: lumbar fusion for stenosis without spondylolisthesis. *J Neurosurg Spine*. Jul 2014; 21(1): 62-6. PMID 24980587
65. Negrini S, Donzelli S, Aulisa AG, et al. 2016 SOSORT guidelines: orthopaedic and rehabilitation treatment of idiopathic scoliosis during growth. *Scoliosis Spinal Disord*. 2018; 13: 3. PMID 29435499

66. National Institute for Health and Clinical Excellence (NICE). Lateral interbody fusion in the lumbar spine for low back pain [IPG574]. 2017; <https://www.nice.org.uk/guidance/ipg574>. Accessed July 21, 2023.
67. North American Spine Society. Current coverage policy recommendations: Lumbar fusion. 2021; <https://www.spine.org/coverage>. Accessed July 21, 2023.
68. North American Spine Society. Evidence-based clinical guidelines for multidisciplinary spine care: Diagnosis and Treatment of Degenerative Spondylolisthesis. 2014; <https://www.spine.org/Documents/ResearchClinicalCare/Guidelines/Spondylolisthesis.pdf>. Accessed July 16, 2023.
69. Kreiner DS, Shaffer WO, Baisden JL, et al. An evidence-based clinical guideline for the diagnosis and treatment of degenerative lumbar spinal stenosis (update). *Spine J.* Jul 2013; 13(7): 734-43. PMID 23830297
70. North American Spine Society. Evidence-Based Clinical Guidelines for Multidisciplinary Spine Care: Diagnosis and Treatment of Lumbar Disc Herniation with Radiculopathy. 2012; <https://www.spine.org/Documents/ResearchClinicalCare/Guidelines/LumbarDiscHerniation.pdf>. Accessed July 18, 2023.
71. Kreiner DS, Hwang SW, Easa JE, et al. An evidence-based clinical guideline for the diagnosis and treatment of lumbar disc herniation with radiculopathy. *Spine J.* Jan 2014; 14(1): 180-91. PMID 24239490
72. North American Spine Society. Evidence-based Clinical Guidelines for Multidisciplinary Spine Care: Diagnosis and Treatment of Low Back Pain. 2020; <https://www.spine.org/Portals/0/assets/downloads/ResearchClinicalCare/Guidelines/LowBackPain.pdf>. Accessed July 17, 2023.
73. Grossman DC, Curry SJ, Owens DK, et al. Screening for Adolescent Idiopathic Scoliosis: US Preventive Services Task Force Recommendation Statement. *JAMA.* Jan 09, 2018; 319(2): 165-172. PMID 29318284
74. Centers for Medicare & Medicaid Services. Spinal Fusion for the Treatment of Low Back Pain Secondary to Lumbar Degenerative Disc Disease. 2006; <https://www.cms.gov/medicare-coverage-database/details/technology-assessments-details.aspx?TAId=41>. Accessed July 21, 2023.