

## Daftar Pustaka

1. Ardocki RJ, Park AL. Lower back pain and disorders of intervertebral disc. In : Canale ST, Beaty JH, eds. Campbell's Operative Orthopaedics. 12th Ed. Philadelphia, PA : Elsevier Mosby; 2013
2. Awad JN, Moskovich R. Lumbar disc herniations: surgical versus nonsurgical treatment. *Clin Orthop Relat Res.* 2006;443:183-97. doi: 10.1097/01.blo.0000198724.54891.3a.
3. Yiengprugsawan V, Hoy D, Buchbinder R, Bain C, Seubsman SA, Sleight AC. Low back pain and limitations of daily living in Asia: longitudinal findings in the Thai cohort study. *BMC Musculoskelet Disord.* 2017;18(1):19. doi: 10.1186/s12891-016-1380-5.
4. De Cicco FL, Camino Willhuber GO. Nucleus Pulposus Herniation. [Updated 2021 Aug 11]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK542307/>
5. Wang, S.-Q., Chen, M., Wei, X., Gao, X.-X., & Zhao, G.-D. Clinical Research On Lumbar Oblique-Pulling Manipulation In Combination With Sling Exercise Therapy For Patients With Chronic Nonspecific Low Back Pain. *Revista Da Associação Médica Brasileira*, 2019; 65, 886–892. DOI: 10.1590/1806-9282.65.6.886
6. Liu C, Huang CC, Hsu CC, Lin HJ, Guo HR, Su SB, Wang JJ, Weng SF. Higher risk for cervical herniated intervertebral disc in physicians: A retrospective nationwide population-based cohort study with claims analysis. *Medicine (Baltimore).* 2016;95(41):e5055. doi: 10.1097/MD.0000000000005055.
7. Tarabay B, Komboz F, Kobaiter-Maarrawi S, Fayad F, Zeid HA, Maarrawi J. Pentoxifylline significantly reduces radicular pain secondary to lumbar disc hernia: A prospective, randomized crossover, single-blind controlled pilot study. *Clin Neurol Neurosurg.* 2022;219:107309. doi: 10.1016/j.clineuro.2022.107309.
8. Nunes RC, Pontes ER, Costa IP. Evaluation of epidural blockade as therapy for patients with sciatica secondary to lumbar disc herniation. *Rev Bras Ortop.* 2016;51(4):424-30. doi: 10.1016/j.rboe.2015.09.014.
9. Ito S, Nakashima H, Sato K, Deguchi M, Matsubara Y, Kanemura T, Urasaki T, Yoshihara H, Sakai Y, Ito K, Shinjo R, Ando K, Machino M, Segi N, Tomita H, Koshimizu H, Imagama S. Laterality of lumbar disc herniation. *J Orthop Sci.* 2022:S0949-2658(22)00287-1. doi: 10.1016/j.jos.2022.10.003.
10. Dwi WY, M M, Fauziah E. Penatalaksanaan Fisioterapi Untuk Gangguan Fungsional Lumbal Pada Kasus Hernia Nucleus Pulposus Dengan Teknik Pnf, Tens Dan Mckenzie Exercise di RSUD Ulin Banjarmasin Tahun 2019. *Jurnal Kajian Ilmiah Kesehatan dan Teknologi.* 2020;2(1):6–14. doi: <https://doi.org/10.52674/jkikt.v2i1.27>
11. Ikhsanawati A, Tiksnadi B, Soenggono A, Hidajat NN. Herniated Nucleus Pulposus in Dr. Hasan Sadikin General Hospital Bandung Indonesia. *Althea Med J.* 2015;2(2):179–85. doi: <http://dx.doi.org/10.15850/amj.v2n2.568>
12. Sunjata WP, Meutia YB, Sukmaningtyas H, Pudjonarko D. Hubungan Hipertensi dengan Klasifikasi Hernia Nucleus Pulposus Lumbal berdasarkan Magnetic Resonance Imaging. *Medica Hospitalia : Journal of Clinical Medicine.* 2021 Nov 5;8(3):311–6. doi: <https://dx.doi.org/10.36408/mhjcm.v8i3.598>

13. Jordan J, Konstantinou K, O'Dowd J. Herniated lumbar disc. *BMJ Clin Evid.* . 2009;2009:1118:1–65.
14. Mateos-Valenzuela AG, González-Macías ME, Ahumada-Valdez S, Villa-Angulo C, Villa-Angulo R. Risk factors and association of body composition components for lumbar disc herniation in Northwest, Mexico. *Scientific Reports.* 2020;10(1). doi: <https://doi.org/10.1038/s41598-020-75540-5>
15. Hangai M, Kaneoka K, Kuno S, Hinotsu S, Sakane M, Mamizuka N, et al. Factors associated with lumbar intervertebral disc degeneration in the elderly. *The Spine Journal.* 2008;8(5):732–40. doi: 10.1016/j.spinee.2007.07.392.
16. Naeem MT, Shaikh MA, Ahmad M, Ijaz A, Huzefa Abid M, Abid M, et al. Implications of Age, Gender and Lumbar Disc Level on Symptomatic Herniated Nucleus Pulposus. *Pakistan J Med Heal Sci.* 2021;15(10):2893–5. doi: <https://doi.org/10.53350/pjmhs2115102893>
17. Kim YK, Kang D, Lee I, Kim SY. Differences in the Incidence of Symptomatic Cervical and Lumbar Disc Herniation According to Age, Sex and National Health Insurance Eligibility: A Pilot Study on the Disease's Association with Work. *International Journal of Environmental Research and Public Health.* 2018;15(10):2094. doi: 10.3390/ijerph15102094
18. Lee JJ, Chung JH. Assessment of Job Related Factors as Determinants of Incidence of Herniated Lumbar Disc. *Korean J Occup Environ Med.* 2001;13(1):31-43. doi: <https://doi.org/10.35371/kjoem.2001.13.1.31>
19. Abid M, Ullah Khan H, Huzea Abid M, Ijaz A, Ahmad M, Tayyab Naeem M, et al. Association of Occupational Risk Factors with the Level of Lumbar Disc Nucleus Pulposus Herniation. *Pakistan Journal of Medical and Health Sciences.*2021;15(10):2863–4. doi: <https://doi.org/10.53350/pjmhs211510286>
20. Chen Z, Li X, Pan F, Wu D, Li H. A retrospective study: Does cigarette smoking induce cervical disc degeneration? *International Journal of Surgery London, England.* 2018;53:269–73. doi: <https://doi.org/10.1016/j.ijso.2018.04.004>
21. Huang W, Qian Y, Zheng K, Yu L, Yu X. Is smoking a risk factor for lumbar disc herniation? *European Spine Journal.* 2015;25(1):168–76. doi: <https://doi.org/10.1007/s00586-015-4103-y>
22. Schumann B, Bolm-Audorff U, Bergmann A, Ellegast R, Elsner G, Grifka J, et al. Lifestyle factors and lumbar disc disease: Results of a German multi-center case-control study (EPILIFT). *Arthritis Res Ther.* 2010;12(5). doi: <https://doi.org/10.1186/ar3164>
23. Liuke M, Solovieva S, Lamminen A, Luoma K, Leino-Arjas P, Luukkonen R, et al. Disc degeneration of the lumbar spine in relation to overweight. *International Journal of Obesity.* 2005;29(8):903–8. doi: <https://doi.org/10.1038/sj.ijo.0802974>
24. Wibowo DS. *Anatomi Tubuh Manusia.* Singapore : Wisland house I;2009. p. 34-35
25. Paulsen F, Waschke J. *Sobotta atlas of human anatomy : general anatomy and musculoskeletal system : Vol. 1.* Elsevier; 2011.
26. Moore, Keith L dan Agur AMR. *Clinically oriented anatomy.* Philadelphia : Lippincott Williams & Wilkins. Jakarta : EGC; 2013.
27. Yueniwati Y. *Prosedur Pemeriksaan Radiologi: Untuk Mendeteksi Kelainan dan Cedera Tulang Belakang.* Universitas Brawijaya Press; 2014.

28. Waxenbaum JA, Reddy V, Futterman B. Anatomy, Back, Intervertebral Discs. [Updated 2021 Aug 10]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK470583/>
29. Pfirrmann CWA, Metzdorf A, Zanetti M, Hodler J, Boos N. Magnetic Resonance Classification of Lumbar Intervertebral Disc Degeneration. *Spine*. 2001;26(17):1873–8. doi: <https://doi.org/10.1097/00007632-200109010-00011>
30. Jenie MN. Hernia Nucleus Pulposus lumbalis. In: *Simposium Nyeri Punggung Bawah*. Semarang: Badan penerbit Universitas Diponegoro; 2006. p.48-53.
31. Ropper AH, Brown RH, Adams RD. Adams and Vectors' principles of neurology. New York: Mcgraw-Hill Medical Pub. Division; 2005.
32. Helmi, Zairin N. *Buku Ajar Gangguan Muskuloskeletal*. Jakarta: Salemba medika; 2012.
33. Strange DG, Fisher ST, Boughton PC, Kishen TJ, Diwan AD. Restoration of compressive loading properties of lumbar discs with a nucleus implant-a finite element analysis study. *Spine J*. 2010;10(7):602–609. doi: <https://doi.org/10.1016/j.spinee.2010.04.015>
34. Strömqvist F, Ahmad M, Hildingsson C, Jönsson B, Strömqvist B. Gender differences in lumbar disc herniation surgery. *Acta Orthop*. 2008;79(5):643-9. doi: 10.1080/17453670810016669.
35. Elmasry S, Asfour S, de Rivero Vaccari JP, Travascio F. Effects of Tobacco Smoking on the Degeneration of the Intervertebral Disc: A Finite Element Study. *PLoS One*. 2015 ;10(8):e0136137. doi: 10.1371/journal.pone.0136137.
36. Sinuhaji S. Penatalaksanaan Fisioterapi Pada Kasus Low Back Pain (LBP) Akibat Hernia Nucleus Pulposus (HNP) Di Klinik Fisioterapi Karya Suci Pematangsiantar Tahun 2017. 2-Trik: Tunas-Tunas Riset Kesehatan. 2020 ;10(4):273. doi: <http://dx.doi.org/10.33846/2trik10409>
37. Li Y, Shi JJ, Ren J, Guan HS, Gao YP, Zhao F, Sun J. [Relationship between obesity and lumbar disc herniation in adolescents]. *Zhongguo Gu Shang*. 2020;33(8):725-9. Chinese. doi: 10.12200/j.issn.1003-0034.2020.08.008.
38. Hadjipavlou AG, Tzermiadianos MN, Bogduk N, Zindrick MR. The pathophysiology of disc degeneration: a critical review. *J Bone Joint Surg Br*. 2008;90(10):1261-70. doi: 10.1302/0301-620X.90B10.20910.
39. Autio R. MRI Of Herniated Nucleus Pulposus. *Acta Universitatis Ouluensis D Medical*; 2006. p.1-31
40. Kuncoro J. *Buku Ajar Blok Muskuloskeletal Aspek Ortopedi*. In: Ferdiansyah, Ramawan E, Chilmi MZ, editors. *Anamnesis dan Pemeriksaan Fisik Orthopedi I (Tulang Belakang dan Pelvis)*. Airlangga University Press; 2022. p. 21-28
41. Albert TJ, Vaccaro AR, editors. *Physical Examination of the Spine*. 2nd ed. New York: Thieme Medical Publisher; 2017.
42. Willhuber GOC, Piuze NS. Straight Leg Raise Test. [Updated 2022 May 1]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK539717/>
43. Almoallim H, Kalantan D, Alharbi L, Albazli K. Approach to Musculoskeletal Examination [Internet]. *Skills in Rheumatology*. Springer; 2021. p. 17–65. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK585755/>
44. Armitage. Low Back Pain. *Advanced Practice Nursing Guide to the Neurological Exam*. Springer Publishing Company: New York; 2015. P.155-6

45. Ozgocmen, S., Bozgeyik, Z., Kalcik, M., & Yildirim, A. The value of sacroiliac pain provocation tests in early active sacroiliitis. *Clinical Rheumatology*.2008;27(10), 1275–1282. doi:10.1007/s10067-008-0907-z
46. Bernstein, Robert & Cozen, Harold. Evaluation of back pain in children and adolescents. *American family physician*. 2018;76. 1669-76.
47. Lyndsay A. Alexander. *The Response of the Nucleus Pulposus of the Lumbar Intervertebral Discs to Functionally Loaded Positions*; 2007.
48. Amini, B., Feger, J. Schmorl nodes. Reference article, Radiopaedia.org. (accessed on 25 Jun 2022). doi: <https://doi.org/10.53347/rID-2026>
49. Kim HS, Raorane HD, Sharma SB, Wu PH, Jang IT. Infected Schmorl's node: a case report. *BMC Musculoskeletal Disorders*. 2020;21(1).
50. Deyo, R, A., Mirza, S. K. Herniated Lumbar Intervertebral Disk. *The New England Journal of Medicine*. 2016; 374:18. p. 1763-72
51. Milani DAQ, Davis DD. Pain Management Medications. [Updated 2023 Jul 3]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK560692/>
52. Anekar AA, Cascella M. WHO Analgesic Ladder. [Updated 2022 May 15]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK554435/>
53. Masiero S, Pignataro A, Piran G, Duso M, Mimche P, Ermani M, Del Felice A. Short-wave diathermy in the clinical management of musculoskeletal disorders: a pilot observational study. *Int J Biometeorol*. 2020;64(6):981-988. doi: 10.1007/s00484-019-01806-x.
54. Gregory DS, Seto CK, Wortley GC, Shugart CM. Acute lumbar disk pain: navigating evaluation and treatment choices. *American Family Physician*. 2008 ;78(7):835-42.
55. 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*. 2006; 296 (20): 2451-9. doi: 10.1001/jama.296.20.2451
56. Butler AJ, Donnally III CJ. Discectomy. [Updated 2022 Jan 14]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK544281/>
57. Azevedo Alves TC, Oliveira Costa AC, Alves Vilela AB. Epidural steroid block in herniated disc: a systematic review and meta-analysis. *J Sci*. 2018;2(4):3–7. doi: 10.15406/oajs.2018.02.00090
58. Cole AJ, Herring SA. *The low back pain handbook : a guide for the practicing clinician*. Philadelphia: Hanley & Belfus; 2003:1–7
59. Desyauri R, Aritonang FH, Simanjuntak CA. Indeks massa tubuh (IMT) sebagai faktor risiko pada kecurigaan hernia nucleus pulposus (HNP) lumbal. *JOMS*. 2021;1(2): 1-7
60. Segar A, Fairbank J, Urban J, Judge A, McCall I. The association of obesity with intervertebral disc degeneration, disc herniation and spinal stenosis: A MRI study of 1,684 patients. *Osteoarthritis Cartilage*. 2015;23:A45. doi: <http://dx.doi.org/10.1016/j.joca.2015.02.099>
61. Ma D, Liang Y, Wang D, Liu Z, Zhang W, Ma T, Zhang L, Lu X, Cai Z. Trend of the incidence of lumbar disc herniation: decreasing with aging in the elderly. *Clin Interv Aging*. 2013;8:1047-50. doi: 10.2147/CIA.S49698.

62. Skaf GS, Ayoub CM, Domloj NT, Turbay MJ, El-Zein C, Hourani MH. Effect of Age and Lordotic Angle on the Level of Lumbar Disc Herniation. *Adv Orthop*. 2011;2011:950576. doi: <https://doi.org/10.4061/2011/950576>
63. Wu Q, Huang JH. Intervertebral Disc Aging, Degeneration, and Associated Potential Molecular Mechanisms. *J Head Neck Spine Surg*. 2017;1(4):555569. doi: 10.19080/JHNSS.2017.01.555569.
64. Zielinska N, Podgórski M, Haładaj R, Polgaj M, Olewnik Ł. Risk Factors of Intervertebral Disc Pathology—A Point of View Formerly and Today—A Review. *Journal of Clinical Medicine*. 2021;10(3):409. doi: <http://dx.doi.org/10.3390/jcm10030409>
65. Nasikhatussoraya N, Octaviani R, Julianti H. Hubungan Intensitas Nyeri Dan Disabilitas Aktivitas Seharian-Harian Dengan Kualitas Hidup Pasien Dengan Kanker Kolorektal. *J Kedokt Diponegoro*. 2016;5(4):1364–77.
66. Shimia M, Babaei-Ghazani A, Sadat B, Habibi B, Habibzadeh A. Risk factors of recurrent lumbar disk herniation. *Asian J Neurosurg*. 2013;8(02):93–6.
67. Cummins J, Lurie JD, Tosteson TD, Hanscom B, Abdu WA, Birkmeyer NJO, et al. Descriptive epidemiology and prior healthcare utilization of patients in the Spine Patient Outcomes Research Trial's (SPORT) three observational cohorts: disc herniation, spinal stenosis, and degenerative spondylolisthesis. *Spine*. 2006;31(7):806–14. doi: 10.1097/01.brs.0000207473.09030.0d.
68. Tabesh H, Tabesh A, Fakharian E, Fazel M, Abrishamkar S. The effect of age on result of straight leg raising test in patients suffering lumbar disc herniation and sciatica. *J Res Med Sci*. 2015;20(2):150-3.
69. Sihombing I, Wangko S, Kalangi SJR. Peran estrogen pada remodeling tulang. *Jurnal biomedik*. 2012; 4(3): 18-28
70. Stafford MA, Peng P, Hill DA. Sciatica: a review of history, epidemiology, pathogenesis, and the role of epidural steroid injection in management. *Br J Anaesthesia*. 2007; 99(4):461-73
71. Yelmaiza M, Restu Susanti, Syarif Indra. The Risk Factors Affecting Disability Level of Lumbar Disc Herniation. *Biosci Med J Biomed Transl Res*. 2021;6(1):1275–80.
72. Zhang, Yin-gang MD, PhD; Sun, Zhengming MD; Zhang, Zhi MD; Liu, Jian MD; Guo, Xiong MD. Risk Factors for Lumbar Intervertebral Disc Herniation in Chinese Population: A Case-Control Study. *Spine J* 2009;34(25):p E918-E922. doi: 10.1097/BRS.0b013e3181a3c2de
73. Seidler A. Occupational risk factors for symptomatic lumbar disc herniation; a case-control study. *Occupational and Environmental Medicine*. 2003;60(11):821–30. doi: 10.1136/oem.60.11.821
74. Huang W, Han Z, Liu J, Yu L, Yu X. Risk Factors for Recurrent Lumbar Disc Herniation. *Medicine*. 2016;95(2):e2378. doi: 10.1097/MD.0000000000002378
75. Andersen SB, Smith EC, Støttrup C, Carreon LY, Andersen MO. Smoking Is an Independent Risk Factor of Reoperation Due to Recurrent Lumbar Disc Herniation. *Global Spine J*. 2018;8(4):378-381. doi: 10.1177/2192568217730352.
76. Gore DR, Carrera GF, Glaeser ST. Smoking and degenerative changes of the cervical spine: a roentgenographic study. *Spine J*. 2006;6(5):557-60. doi: 10.1016/j.spinee.2005.12.003.
77. Kiraz M, Demir E. Relationship of lumbar disc degeneration with hemoglobin value and smoking. *Neurochirurgie*. 2020;66(5):373-377. doi: 10.1016/j.neuchi.2020.06.133.

78. Videman T, Battié MC, Parent E, Gibbons LE, Vainio P, Kaprio J. Progression and determinants of quantitative magnetic resonance imaging measures of lumbar disc degeneration: A five-year follow-up of adult male monozygotic twins. *Spine (Phila Pa 1976)*. 2008;33(13):1484–90.
79. Akmal, Mohammed FRCS(Orth); Kesani, Anil BSc; Anand, Bobby MBBS; Singh, Abhinav BSc; Wiseman, Mike PhD; Goodship, Allen MRCVS. Effect of Nicotine on Spinal Disc Cells: A Cellular Mechanism for Disc Degeneration. *Spine*. 2004;29(5):p.568-575. doi: 10.1097/01.BRS.0000101422.36419.D8
80. Saftić R, Grgić M, Ebling B, Splavski B. Case-control study of risk factors for lumbar intervertebral disc herniation in Croatian island populations. *Croat Med J*. 2006;47(4):593-600.
81. Samartzis, D., Karppinen, J., Chan, D., Luk, K.D.K. and Cheung, K.M.C. The association of lumbar intervertebral disc degeneration on magnetic resonance imaging with body mass index in overweight and obese adults: A population-based study. *Arthritis & Rheumatism*. 2012;64: 1488-1496. <https://doi.org/10.1002/art.33462>
82. Kong BJ, Lim JS, Kim K.. A study on dispersion and rate of fat infiltration in the lumbar spine of patients with herniated nucleus polpusus. *J Phys Ther Sci*. 2014;26(1):37-40. doi:10.1589/jpts.26.37

