

DAFTAR PUSTAKA

- Allegri M, Montella S, Salici F, Valente A, Marchesini M, Compagnone C, et al. 2016. Mechanism of low back pain: a guide for diagnosis and therapy. *F1000Research*.P:1-12
- Almeida DC, Kraychete DC. 2017. Low Back Pain- a diagnostic approach. *Rev Dor*(2): 173-7.
- Almoallim H, Alwafi S, Albazli K, Alotaibi M, Bazuhair T. 2014. A simple approach of low back pain. *International Journal of Clinical Medicine*.Vol. 5. P:1087-98
- Bardin LD, King P, Maher CG. 2017. Diagnostic triage for low back pain: a practical approach for primary care. *Medical Journal of Australia*.P:1-8
- Baron R, Binder A, Attal N, Casale R, Dickenson AH, Treede R-D. 2016. Neuropathic low back pain in clinical practice. *European Journal of Pain*(20): 861-73
- Bento TPF, Genebra CVdS, Maciel NM, Connelio GP, Simeao SFAP, De Vitta A. 2019. Low back pain and some associated factors: is there any difference between genders?. *Brazilian Journal of Physical Therapy*.Vol 206.P:1-9.
- Brinjikji W, Diehn FE, Jarvik JG, Kallmes DF, Murad MH, et al. 2015. MRI findings of disc degeneration are more prevalent in adults with low back pain than in symptomatic controls: a systematic review and meta-analysis. *Am J Neuroradiol*.P:1-14
- Chen Y, Yang H, Zhang L, Wang Y, Zou J. 2018. Analyzing the influence of Modic Changes on Patients with lower back pain undergoing conservative treatment. *Pain Research and Management*.P:1-14
- Chen Y, Bao J, Yan Q, Wu C, Yang H, Zou. 2019. Distribution of modic changes in patients with low back pain and its related factors. *Eur J of Med Res*. Vol.24(34).P:1-8

- Cheung K, Karppinen J, Chan D, Ho DWH, Song YQ, Sham P, et al. 2009. Prevalence and pattern of lumbar magnetic resonance imaging changes in a population study of one thousand forty-three individuals. *Spine*. Vol.34(9). P:934-40.
- Chou R. 2011. Low back pain (chronic). *Clinical evidence handbook*. BMJ Publishing Group.
- Dahlan MS. 2015. Statistik untuk Kedokteran dan Kesehatan Seri 1, Edisi 6. Epidemiologi Indonesia. P:22.
- Ehrlich GE. 2003. Low back pain. *Bulletin of World Health Organization*. Vol.81.P:671-6.
- Fillingim RB, Loeser JD, Baron R, Edwards RR. 2016. Assessment of Chronic Pain: Domains, Methods and Mechanisms. *J Pain*. Vol.17. P:1-21.
- Garg A, Pathak H, Churyukanov MV, Uppin RB, Slobodin TM. 2019. Low back pain: critical assessment of various scale. *European Spine Journal*. Springer Nature. P: 1-16.
- Grad S, Bow C, Karppinen J, Luk KDK, Cheung KMC, Alini M, et al. 2016. Systemic blood plasma CCL5 and CXCL6: potential biomarkers for human lumbar disc degeneration. *European Cells and Materials*. Vol.31.P:1-10.
- Hartvigsen J, Hancock MJ, Kongsted A, Louw Q, L Fereira M, Genevay S, et al. 2018. What low back pain is and why we need to pay attention. *The Lancet*.
- Hasz MW. 2012. Diagnostic testing for degenerative disc disease. *Advance in Orthopedics*. P:1-7.
- Herlin C, Kjaer P, Espeland, Skouen JS, Leboeuf-Yde C, Karppinen J. 2018. Modic changes- their associations with low back pain and activity limitation: A systematic literature review and meta-analysis. *J Pone*.

Hoy D, March L, Brooks P, Byth F, Woolf A, Bain C, et al. 2014. The global burden of low back pain: estimates from the global burden of disease 2010 study. *Ann Rheum Dis.* 73: 968-974.

Itz CJ, Geurts JW, Kleef MV. Meelmas. 2012. Clinical course of no-spesifik lowback pain

Jarvik JJ, Hollingwoth W, Heagerty P, Haynor DR, Deyo RA. 2001. The longitudinal assessment of imaging and disability of the back (LAIDBack) study. *Spine.* Vol 26(10).P: 1158-66.

Jarvinen J, Karppinen J, Niinimaki J, Haapea M, Gronbald M, Luoma K, et al.2015. Association between changes in lumbar Modic changes and low back symptoms over two-year period. *BMC Musculoskeletal Disorders.* Vol 16:98.P:1-8.

Jensen TS, Karppinen J, Sorensen JS, Niinimaki J, Lebouef-Yde C.2008. Vertebral endplate signal changes (Modic change): a systematic literature review of prevalence and association with non-spesific low back pain. *Eur Spine J.* Vol17.P:1407-22.

Jiang BC, Liu T, Gao YJ. 2020. Chemokines ini chronic pain: cellular and molecular mechanisms and therapeutic potential. *Pharmacology and Therapeutics.*

Karppinen J, Koivisto K, Ketola J, Haapea M, Paanane M, Herzig K-H, et al.2021. Serum biomarkers for Modic changes in patients with chronic low back pain. *Eur Spine J.* Vol 30.P:1018-27.

Kepler CK, Markova DZ, Dibra F, Yadla S, Vaccaro A, Risbud M, et al. 2013. Expression and relationship of proinflammatory chemokine RANTES/CCL5 and cytokine 1L-1 β in painful human intervertebral discs. *Spine.* Vol.38. No. 11.P:873-80

Kjaer P, Leboeuf-Yde C, Korsholm L, Sorensen JS, Bendix T. 2005. Magnetic resonance imaging and low back pain in adults: a diagnostic imaging study of 40-year-old men and women. *Spine*. Vol.30(10).P:1173-80.

Klyne DM, Barbe MF, Hodges PW. 2016. Systemic inflammatory profiles and their relationships with demographic, behavioral and clinical features in acute low back pain. *Brain, Behavior and Immunity*.P:1-39

Lippincott Williams & Wilkins Nursing and Medical Journal. *Short Form McGill Pain Questionnaire* 2. Dilihat pada 27 Oktober 2020. https://cdn-links.lww.com/permalink/aap/aap_39_6_2014_08_21_ortner_rapm2014-263_sdc4.pdf

Maata JH, Karppinen J, Paananen M, Bow C, Luk KDK, Cheung K, Samartzis D. 2016. Refine phenotyping of modic changes. *Medicines*. Vol.95(22).

Manchikanti L, Singh V, Falco FJE, Benyamin RM, Hirsch JA. 2014. Epidemiology of low back pain in adults. *Neuromodulation*. Vol 17.P:3-10.

Molinos M, Almeida CR, Caldeira J, Cunha C, Goncalves RM, Barbosa MA. 2015. Inflammation in intervertebral disc degeneration and regeneration. *J R Soc Interface*.Vol.12.

Nijs J, Apeldoorn A, Hallegraeff H, Clark J, Smeets R, Malfliet A, et al. 2015. Low back pain: Guidelines for the clinical classification of predominant neuropathic, nociceptive, or central sensitization pain. *Pain Physician*. Vol 18.P.333-46.

Novitasari DD, Sadeli HA, Soenggono A, Sofiatin Y, Sukandar H, Roesli RMA. 2016. Prevalence and characteristics of low back pain among productive age population in jatinangor. *Althea Medical Journal*. Vol3(3).

Oh SB, Tran PB, Gillard SE, Hurley RW, Hammond DL, Miller RJ. 2001. Chemokines and c-glycoprotein120 produce pain hypersensitivity by directly exciting primary nociceptive neurons. *J Neurosci*. 15;21(14):5027-35.

Oi O, Jo B, Go P. 2017. Modic changes in adults with chronic low back pain in north central Nigeria. *Journal of the West African College of Surgeon*. Vol.7(2).

Pattappa G, Peroglio M, Sakai D, Mochida J, Benneker L.M, Alini M, et al. 2014. CCL5/RANTES is a key chemoattractant released by degenerative intervertebral discs in organ culture. *European Cells and Materials*. Vol 27: 124-136.

Peng BG. 2013. Pathophysiology, diagnosis, and treatment of discogenic low back pain. *World Journal Orthopaedics*. Vol 4(2). P:42-52.

Phillips K. 2013. Cytokine and chemokines in the pathogenesis of low back pain. *Sheffield Hallam University Research Archive*. P:65-74

Ramdas J, Jella V. 2018. Prevalence and risk factors of low back pain. *International Journal of Advance in Medicine*. Vo. 5(5): 1120-3.

Rannou F, Ouane W, Boutron I, Lovisi B, Fayad F, Macce Y, et al. 2007. High-sensitivity C-reactive protein in chronic low back pain with vertebral end-plate modic signal changes. *Arth Care and Research*. P:1-12

Rinonapoli G, Ferrara P, Vicente CI, Schiavon, e A, Bisaccia MColleuori G, et al. 2016. The anatomy and classification of back pain. *Canadian Open Orthopaedics and Traumatology Journal*. Vol. 3 No. 4. P:15-18.

Risbud MV, Shapiro IM. 2014. Role of cytokines in intervertebral disc degeneration: pain and disc-content. *Nat Rev Rheumatol*. Vol.10(1).P:44-56.

Sadeli HA, Tjahjono B. 2008. Nyeri punggung Bawah. *Nyeri Neuropatik*. Medikagama Press.

Saukonen J, Maata J, Oura P, Kyllonen E, Ternoven O, Niinimaki J, et al. 2020. Associationn between modic changes and low back pain in middle age. *Spine*. Vol.45(19). P:1360-67.

Smart K, Blake C, Staines A, Doody C. 2012. Self- reported pain severity, quality of life, disability, anxiety and depression in patients classified with ‘nociceptive’, ‘peripheral neuropathic’ and ‘central sensitization pain’. The discriminant validity of mechanisms-based classification of low back (\pm leg) pain. *Manual Therapy*. Vol 17. P:119-25

Sowa GA, Perera S, Bechara B, Agarwal V, Boardman J, Huang W, et al. 2014. Associations between serum biomarkers and pain and pain-related function in older adults with low back pain: a pilot study. *J Am Geriatr Soc*. Vol 62. P:2047-55.

Teodorcsyk-Injeyan JA, Mc Gregor M, Triano JJ, Injeyan SH. 2018. Elevated production of nociceptive CC chemokines and sE-selectin in patient with low back pain and the effects of spinal manipulation, a nonrandomized clinical trial. *Clin J Pain*. Vol.34.P: 68-75.

Tonosu J, Oka H, Higashikawa A, Okazaki H, Tanaka S, Matsudaira K. 2017. The associations between magnetic resonance imaging finding and low back pain:a 10-year longitudinal analysis. *J Pone*.P:1-10

Turner MD, Nedjai B, Hurst T, Pennington DJ. 2014. Cytokines and chemokines: at the crossroads of cell signaling and inflammatory disease. *Biochimica et Biophysica Acta*.P:1-8

Vo NV, Hartman RA, Patil PR, Risbud MV, Kletsas D, Iatridis JC, et al. 2016. Molecular mechanisms of biological aging in intervertebral discs. *Journal of Orthopaedic Research*.P:1-12.

Watt, FE. 2018. Muskuloskeletal pain and menopause. *Post Reproductive Health*. P:1-10.

White FA, Jung H, Miller RJ. 2007. Chemokine and the pathophysiology of neuropathic pain. *PNAS* vol 104(51):20151-8.

Wu A, March L, Zheng X, Huang J, Wang X, Zhao J, et al. 2017. Global low back pain prevalence and years lived with disability from 1990 to 2017: estimates

from the global burden of disease study 2017. *Ann Trans Med.* Vol.8(6).P:1-10

Yee A, Mohammed S, Malcolm B. 2016. Low back pain. *The Workplace Safety and Insurance Appelas Tribunal.* P:1-6

Yenukoti R. 2015. Clinical anatomy of vertebral column. Diunduh dari <https://www.researchgate.net/publication/328163417>. P:1-16

Zhang F, Zhao X, Shen H, Zhang C. 2016. Molecular mechanisms of cell death in intervertebral disc degeneration (review). *Intl J of Mol Med.* Vol.37.P:1439- 48.

Zhang YH, Zhao CQ, Jiang LS, Chen XD, Dai LY. 2008. Modic changes: a systematic review of literature. *Eur Spine J.* Vol 17:1289-99.

