

## DAFTAR PUSTAKA

- Aaron Roy K., Jennifer Racine. 2013. Pathogenesis and Epidemiology of Osteoarthritis. Rhode Island Medical Journal p.19-21
- Abari-Salehi Iraj. 2016. 2016 ACR Revised Criteria for Early Diagnosis of Knee Osteoarthritis. *Autoimmune Disease Therapeutic Approaches*. Tehran University of Medical Sciences, Iran p. 2-5
- Arroll B and Goodyear-Smith F. 2004. Corticosteroid injections for osteoarthritis of the knee: meta-analysis. *BMJ* 328:869
- Anjum Zeeshan, Syed Rizwan Abbas. 2015. Journal of Natural Sciences: Osteoarthritis, classification, prevalence, and risk factors. *Darsgah-e-ahlebaib* Vol. 3: 7-9
- Boyd SK, Muller R, Zemicke RF. Mechanical and architectural bone adaption in early stage experimental osteoarthritis. *J Bone Miner Res*. 2002; 17(4):687-94
- Calvo E, Palacios I, Delgado E, Ruiz-Cabello J, Hernandez P, Sanchez-pernaute O, Egido J, Herrero-Beaumont G. 2001. High-resolutons MRI detects cartilage swelling at the early stages of experiment osteoarthritis. *Osteoarthritis Cartilage* 9:463-472
- Chen Fang-Pey, Ching-Mao Chang, Shinn-Jang Hwang, Yu-Chun Chen, Fun-Jou Chen. 2014. Chines herbal prescriptions for osteoarthritis in Taiwan: analysis of national health insurance dataset. *BMC Complementary and Alternative Medicine* 14:91
- Creamer P., Hochberg M. 1997. Osteoarthritis. *Lancet*; 350: 503-508
- Felson D.T. 2009. Developments in The Clinical Understanding of Osteoarthritis. *Arthritis Research & Therapy*. 11:203
- Flood J, Genever P. 2008. Transcriptional control of mesenchymal stem cell differentiation. *Transf. Med. Hemother*. 35(3), 216-227
- Galis ZS, Khatri JJ. Matrix metalloproteinase. Vascular remodeling and atherogenesis: the good, the bad and the ugly. *Circ Res* 2002;90:251-62

- Haq SA, Darmawan J, Islam MN, et al. 2005. Prevalence of rheumatic diseases and associated outcomes in Rural and Urban communities in Bangladesh: A COPCORD study. *J Rheumatol* 32: 348-353
- Heidari, B. et al. 2011. Knee osteoarthritis prevalence, risk factors, pathogenesis and features: Part 1. *Caspian J Intern Med* 2011;2(2):205-212
- Humphreys Benjamin D., Joseph V. Bonventre. 2008. Mesenchymal stem cells in acute kidney injury. *Annual Reviews of Medicine* Vol.59:311-325
- Hunter, D.J. 2011. Pharmacologic therapy for osteoarthritis- the era of disease modification. *Nat. Rev. Rheumatol.* 7, 13-22
- Imbawan Eka, Tjokorda Raka Putra, Gede Kambayana. 2011. Korelasi kadar matrix metalloproteinase 3 (MMP-3) dengan derajat beratnya osteoarthritis lutut. *Jurnal Penyakit Dalam* Vol.12 Nomor 3
- Irhimeh M R., J. Helen Fittona, and Raymond M. Lowenthal. 2007. Fucoidan ingestion increases the expression of CXCR4 on human CD34+ cells. *Experimental Hematology* 35 : 989-994
- Jensen GS, Hart AN, Zaske LA, Drapeau C, Gupta N, Schaffer DJ, Cruickshank JA. 2007. Mobilization of human CD34+ CD133+ and CD34+ CD133(-) stem cells in vivo by consumption of an extract from *Aphanzomenon flosaquae*—related to modulation of CXCR4 expression by an L-selection ligand *Cardiovasc Revasc Med.* 8(3):189-202
- Joern W. –P. Michael, Klaus U. Schluter-Brust, Peer Eysel. 2010. The Epidemiology, Etiology, Diagnosis, and Treatment of Osteoarthritis of The Knee. *Dtsch Arztebl Int*; 107(9): 152-62
- Khan, H.M., Ashraf, M., Hashmi, A.S., Ahmad, M.U.D., Anjum, A.A. 2012. Clinical Assessment of Experimentally Induced Osteoarthritis Rat Model in relation to Time. *J. Anim. Plant Sci.* 22(4)
- Khan, I.M., Redman, S.N., Williams, R., Dowthwaite, G.P., Oldfield, S.F., Archer, C.W. 2007. The Development of synovial joints. *Curr. Top. Dev. Biol.* 79: 1-36

- Koo, Sung. T., Lee, Chang H., Choi, H., Shin, Yong I., Ha, Ki T. 2013. The Effect of Pressure on Arthritic Knees in a Rat Model of CFA-induced Arthritis. *Pain Physician*. 16: 95-102
- Korbling M, Estrov. 2003. Adult stem cells for tissue repair – a new therapeutic concept? *N Engl J med*, 349:570-582
- Kwon Kim, Se. 2015. Functional Marine Biomaterials: Properties and Application. Elsevier. 82-84
- Martel-Pelletier J, Boileau C, Pelletier JP, Roughley PJ. 2008. Cartilage in normal and osteoarthritis conditions. *Best Pract Res Clin Rheumatol* 22:351-358
- Mayer, A. M. S., Rodri'guez, A. D., Berlinck, R.G. S., and Fusetani, N. 2011. Marine pharmacology in 2007—8: Marine compounds with antibacterial, anticoagulant, antifungal, anti-inflammatory, antimalarial, antiprotozoal, antituberculosis, and antiviral activities; affecting the immune and nervous system, and other miscellaneous mechanisms of action. *Comp. Biochem. Physiol. C Toxicol. Pharmacol.* 153, 191-222
- Mohan G. 2012. Mechanisms of Osteoarthritis: Interrelationships between Bone and Cartilage. *Thesis of University Adelaide: Bone and Joint Research Laboratory*
- Moreland, Larry W. 2003. Review: Intra-articular hyaluronan (hyaluronic acid) and hylans for the treatment of osteoarthritis: mechanisms of action. *Arthritis Res Ther*, 5:54-67
- Moskowitz RW, Altman RD, Hochberg MC. (ed). Osteoarthritis: diagnosis and medical/surgical management. 4th edn. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins; 2007
- Naito K., Takahashi M., Kushida K., Suzuki M., Ohishi T., Miura M., Inoue T., Nagano A. 1999. Measurement of matrix metalloproteinase (MMPs) and tissue inhibitor of metalloproteinase-1 (TIMP-1) in patients with knee osteoarthritis: comparison with generalized osteoarthritis. *Rheumatology Oxford Journal* 38(6):5:10-5
- National Institute of Arthritis and Musculoskeletal and Skin Disease (NIAMS). 2008. *Questions and Answers about Arthritis and Rheumatic Disease*. National Institute of Health, United States: 02-4999

- Nielsen R.H., A.-C., Bay-Jensen, I. Byrjalsen, M.A. Karsdal. 2011. Oral Salmon Calcitonin in Reduces Cartilage and Bone Pathology in an Osteoarthritis Rat Model with Increased Subchondral Bone Turnover. *Osteoarthritis and Cartilage* 19, 466-473
- Perhimpunan Ahli Penyakit Dalam Indonesia (PAPDI). 2014. Rekomendasi IRA untuk Diagnosis dan Penatalaksanaan Osteoarthritis. ISBN 978-979-3730-24-0
- Petit, I. 2002. G-CSF Induce Stem Cell Mobilization by Decreasing Bone Marrow SDF-1 and Up-regulating CXCR4. *Nature*. Volume 3 no 7
- Pfander, D., Heinz, N., Rothe, P., Carl, H. and Swoboda, B. 2004. Tenascin and aggrecan expression by articular chondrocytes is influenced by interleukin 1 beta: a possible explanation for the changes in matrix synthesis during osteoarthritis. *Ann Rheum Dis* 63: 240-244
- Putri Neshya R., Diana Lyrawati, M. Rasjad Indra. 2014. Efek ekstrak alga coklat (*sargassum sp.*) sebagai supresor protein Bcl-2 in vitro pada sel HeLa. *Majalah Kesehatan FKUB* Vol 1:4
- Quasnichka HL, Anderson-MacKenzie JM, Balley AJ. 2006. Subchondral bone and ligament changes precede cartilage degradation in guinea pig osteoarthritis. *Biorheology*;43(3-4):389-97
- Reynard, L.N., Loughlin, J. 2012. Genetics and epigenetics of osteoarthritis. *Maturitas*, 71:200-204
- Richter W., Lorenz H. 2006. Osteoarthritis: Cellular and molecular changes in degenerating cartilage. *Prog. Histochem Cytochem*. 40 135–163
- Sellam J, Beaumont GH, and Berenbaum F. 2009. Osteoarthritis: pathogenesis, clinical aspects and diagnosis. *In EULAR Compendium in Rheumatic Disease*
- Setiyohadi Bambang. 2003. Osteoarthritis Selayang Pandang. Dalam Temu Ilmiah Reumatologi. Jakarta: 27-31
- Singh, J.A. 2012. Stem Cells and Other Innovative Intra-Articular Therapies for Osteoarthritis: What Does The Future Hold?. *BMC Medicine* 10:44-49

- Sinurat Ellya, Endar Marraskuranto. 2012. Fukoidan dari rumput laut coklat dan bioaktivitasnya. *Squalen Journal* Vol.7:3, 2012:131-138
- Soeroso S, Isbagio H, Kalim H, Broto R, Pramudiyo R. 2006. Osteoarthritis. In: Sudoyo AW, Setiyohadi B, Alwi I, Simadibrata M, Setiati S, editors. *Buku Ajar Ilmu Penyakit Dalam Jilid II Edisi IV*. Jakarta: Fakultas Kedokteran Universitas Indonesia p. 1195-1201
- Sondergaard BC, Oestergaard S, Christiansen C, Tanko LB, Karsdal MA. 2007. The effect of oral calcitonin on cartilage turnover and surface erosion in an ovariectomized rat model. *Arthritis Rheum*: 56: 2674-8
- Sugiono, Simon Bambang Widjanarko, Loekito Adi Soehono. 2014. Extraction Optimization by Response Surface Methodology and Characterization of Fucoïdan from Brown Seaweed *Sargassum polycystum*. *International Journal of ChemTech Research* Vol.1, No.1, pp 195-205
- Sweeney EA, Hugues Lortat-Jacob, Gregory V. Priestley, Betty Nakamoto, and Thalia Papayannopoulou. 2002. Sulfated polysaccharides increase plasma levels of SDF-1 in monkeys and mice: involvement in mobilization of stem/progenitor cells. *Blood*, 99: 44-51
- Udani, J., Hesslink, R. 2012. The Potential Use of Fucoïdins from Brown Seaweed as a Dietary Supplement. *J Nutr Food Sci* 2012, 2:10
- Umlauf D, Frank S, Pap T, Bertrand J. 2010. Cartilage biology, pathology, and repair. *Cell Mol Life Sci* 67: 4197-4211
- Wittenauer Rachel, Lily Smith, Kamal Aden. 2013. Priority Medicines for Europe and The World "A Public Health Approach to Innovation" p. 5-7
- Wynn RF, Hart CA, Corradi-Perini C., O'Neill L., Evans CA., Wraith JE., Fairbairn LJ., Bellantuono I. 2004. A small proportion of mesenchymal stem cells strongly expresses functionally active CXCR4 receptor capable of promoting migration to bone marrow. *Blood Journal American Society of Hematology* 1;104(9):2643-5