

DAFTAR PUSTAKA

- Al Alawi AM, Majoni SW, Falhammar H. 2018. *Magnesium and Human Health: Perspectives and Research Directions*. International Journal of Endocrinology. Pp: 1—7. doi: 10.1155/2018/9041694
- Anderson AS, Loeser RF. (2010). *Why is OA an Age-related Disease?. Best Practice & Research: Clinical Rheumatology*. 24(1). Pp: 1–18. doi: 10.1016/j.berh.2009.08.006.
- Annweiler C, Henni S, Walrand S, et al. 2017. *Vitamin D and Walking Speed in Older Adults: Systematic Review and Meta-Analysis*. Maturitas Journal. 106. Pp: 8-25.
- Barker T, Henriksen VT, Rogers VE, et al. 2014. *Vitamin D Deficiency Associates with γ -Tocopherol and Quadriceps Weakness but Not Inflammatory Cytokines In Subjects with Knee Osteoarthritis*. Redox Biology. 2(1). Pp: 466–74. doi: 10.1016/j.redox.2014.01.024.
- Başkan BM, Yurdakul FG, Aydın E, et al. 2018. *Effect of Vitamin D levels on Radiographic Knee Osteoarthritis and Functional Status*. Turkish Journal of Physical Medicine and Rehabilitation. 64(1). Pp: 1–7. doi: 10.5606/tftrd.2018.986.
- Berteau, J.-P. (2022). Knee Pain from Osteoarthritis: Pathogenesis, Risk Factors, and Recent Evidence on Physical Therapy Interventions. *Journal of Clinical Medicine*. 11(12). Pp: 3–12. doi:https://doi.org/10.3390/jcm11123252.
- Cabral MMS, Bos AJG, Amano H, et al. (2017). *Relationship between Skin Color, Sun Exposure, UV Protection, Fish Intake and Serum Levels of Vitamin D in Japanese Older Adults*. Nutrition and Food Science. 47(3). Pp: 409-22. doi: 10.1108/NFS-09-2016-0136.
- Chang SW & Lee HC. 2019. *Vitamin D and Health - The Missing Vitamin in Humans*. Pediatrics and Neonatology, 60(3). Pp: 237–44. doi: doi: 10.1016/j.pedneo.2019.04.007.
- Choi S, Kim KJ, Cheon S, et al. 2020. Biochemical activity of magnesium ions on human osteoblast migration. *Biochemical and Biophysical Research Communications*. 531(4). Pp: 588–94. doi: 10.1016/j.bbrc.2020.07.057
- D, Sarsan A, and Alkan H. (2012). *Relationships between Pain, Function and Radiographic Findings in Osteoarthritis of the Knee: A Cross-Sectional Study*. Arthritis. 2012. Pp.1–5. doi: https://doi.org/10.1155/2012/984060.



Cui A, Li H, Wang D, et al. (2020). *Global, Regional Prevalence, Incidence and Risk Factors of Knee Osteoarthritis in Population-Based Studies*. *EClinicalMedicine*. 29-30(20). Pp: 1—13. doi: <https://doi.org/10.1016/j.eclinm.2020.100587>.

Domingues-Faria C, Boirie Y, Walrand S. 2017. Vitamin D and Muscle Trophicity. *Current Opinion in Clinical Nutrition and Metabolic Care*. 20(3), Pp:169-74. doi: 10.1097/MCO.0000000000000358.

Felson DT & Neogi T. 2018. Osteoarthritis. In: Jameson JL, Fauci AS, Kasper DL, et al (Eds.), *Harrison's Principles of Internal Medicine, 20 ed*. McGraw-Hill Education.

Fiorentini D, Cappadone C, Farruggia G, et al. 2021. Magnesium: Biochemistry, Nutrition, Detection, and Social Impact of Diseases Linked to Its Deficiency. *Journals of Nutrient*. 13(1136). Pp: 1–44. doi: 10.3390/nu13041136

Garfinkel RJ, Dilisio MF, & Agrawal DK. 2017. Vitamin D and Its Effectson Articular Cartilage and Osteoarthritis. *Orthopaedic Journal of SportsMedicine*. 5(6). Pp: 1–8.

Gibson RS. 2005. *Principles of Nutritional Assessment*. 2nd Ed. New Zealand: Oxford. Pp: 661-74.

Glover TL, Horgas AL, Fillingim RB, et al. 2015. Vitamin D Status and Pain Sensitization in Knee Osteoarthritis: a Critical Review of the Literature. *Pain Management*. 5(6). Pp: 447-53. doi: 10.2217/pmt.15.43.

Gorial FI, Shams, Mena BK, et al. 2018. Functional Status in Knee Osteoarthritis and its Relation to Demographic and Clinical Features. 29(4). Pp: 207—10. doi: 10.31138/mjr.29.4.207.

Goltzman D. 2018. Functions of Vitamin D in Bone. *Histochemistry and Cell Biology*. 149(4). Pp: 305- 12. doi: 10.1007/s00418-018-1648-y.

Glyn-Jones S, Palmer AJR., Agricola R, et al. 2015. Osteoarthritis. *The Lancet*. 386(9991). Pp: 376–87. doi: 10.1016/S0140-6736(14)60802-3.

Hmamouchi I, Allali F, Tahiri L, et al. 2012. Clinically important improvement in the WOMAC and predictor factors for response to non-specific non-steroidal anti-inflammatory drugs in osteoarthritic patients: a prospective study. *BMC Research Notes*, 5(58). Doi: <https://doi.org/10.1186/1756-0500-5-58>.

Hsu H, and Siwec RM. (2023). *Knee Osteoarthritis*. [online] Nih.gov. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK507884/> [Accessed 11 Aug. 2024].



J H, Wang C, et al. 2018. Magnesium Enhances the Chondrogenic Differentiation of Mesenchymal Stem Cells by Inhibiting Activated Macrophage-Induced Inflammation. *Scientific Reports*. 8(1). Pp: 1–13. doi:

10.1038/s41598-018-21783-2.

Khudrati WC, Handoyo HR, Nugroho N. (2019). *The Correlation of Body Mass Index and Age With Disability Rate in Patients with Grade II-IV Knee Osteoarthritis According to Kellgren-Lawrence at RS PHC Surabaya*. Journal of Widya Medika Junior. 1(1). Pp: 48–52. doi:<https://doi.org/10.33508/jwmj.v1i1.1882>.

Iraj S. 2016. ACR Revised Criteria for Early Diagnosis of Knee Osteoarthritis Approaches Open Access 2016 ACR Revised Criteria for Early Diagnosis of Knee Osteoarthritis. 3(1). Pp: 1–5.

Joewono S, Haryy I, Handono K, et al. Osteoarthritis. Dalam: Buku Ajar Ilmu Penyakit Dalam Edisi IV FKUI 2006. Pp: 1195—202.

Kapoor M, et al. 2011. Role of pro-inflammatory Cytokines in Pathophysiology of Osteoarthritis. Nat Rev Rheumatology. 7(1). Pp: 33—42. doi: 10.1038/nrrheum.2010.196.

Karsten S, Shianita L, Phandu M. 2019. *Translation, Adaptation, And Validation Of Western Ontario And Mcmaster Universities Osteoarthritis Index (WOMAC) for Indonesian*. The Journal of Indonesian Orthopaedic & Traumatology. 2 (3). Pp: 1-4. doi: <https://doi.org/10.31282/joti.v2n3.48>

Kenneth DB. 2005. Harrison Principle of Internal Medicine. 16th Ed. Chapter 312: Osteoarthritis Mc Graw Hills. Pp: 2036—45.

Killilea DW & Ames BN. 2008. *Magnesium Deficiency Accelerates Cellular Senescence in Cultured Human Fibroblasts*. Proceedings of the National Academy of Sciences of the United States of America. 105(15). Pp: 5768–73. doi: 10.1073/pnas.0712401105.

Kim JR, Yoo JJ, Kim HA. 2018. Therapeutics in Osteoarthritis Based on an Understanding of its Molecular Pathogenesis. *International Journal of Molecular Sciences*. 19(3). 1-5.

Kraus VB, Blanco FJ, Englund M. et al. 2015. Call for Standardized Definitions of Osteoarthritis and Risk Stratification for Clinical Trials and Clinical Use. *Osteoarthritis Cartilage*. 23. 1233–41. doi: 10.1016/j.joca.2015.03.036.

Kuang X, Chiou J, Lo K, et al. 2021. Magnesium in joint health and osteoarthritis. *Nutrition Research*. 90. Pp: 24–35. doi: 10.1016/j.nutres.2021.03.002.

Lespasio MJ, Piuizzi NS, Husni ME, et al. A. 2017. Knee Osteoarthritis: A Primer. *Permanente Journal*. 21. Pp: 1–7. doi: 10.7812/TPP/16-183.



u M, Ni J, et al. (2022). *Association Between Hypertension and Osteoarthritis: A Systematic Review and Meta-Analysis of Observational Studies*. Journal of Orthopaedic Translation. 32. Pp: 12–20.

doi:<https://doi.org/10.1016/j.jot.2021.05.003>.

Mabey T & Honsawek S. 2015. Role of Vitamin D in Osteoarthritis: Molecular, Cellular, and Clinical Perspectives. *International Journal of Endocrinology*. Pp: 1-6. doi: 10.1155/2015/383918.

Malingkas CV, Paruntu ME, & Assa YA. 2015. Gambaran Kadar Magnesium Serum Pada Orang Lanjut Usia Dengan Umur 60-74 Tahun. *Jurnal e-Biomedik*, 3(1). Pp: 1-8.

Mandelbaum B, David W. 2005. Etiology and Pathophysiology of Osteoarthritis. *Orthopedics*. 28(2). Pp: 207—14. doi : 10.3928/0147-7447-20050202-05.

Mansouri M, Miri A, Varmaghani M, et al. 2018. Vitamin D Deficiency in Relation to General and Abdominal Obesity Among High Educated Adults. *Eating and Weight Disorders - Studies on Anorexia Bulimia and Obesity*. 24(1). Pp: 83–90. doi: 10.1007/s40519-018-0511-4.

Marks, R. 2020. Vitamin D and Osteoarthritis Pain. *CPQ Orthopaedics*. 3(6). Pp: 1—17.

McAlindon T, LaValley M, Schneider E, et al. (2013). Effect of Vitamin D Supplementation on Progression of Knee Pain and Cartilage Volume Loss in Patients With Symptomatic Osteoarthritis: A Randomized Controlled Trial. *Journal of the American Medical Association*. 309(2). Pp: 155–62. doi:<https://doi.org/10.1001/jama.2012.164487>.

Mermerci BB, Yurdakul FG, Aydın E, et al. (2017). *Effect of Vitamin D Levels on Radiographic Knee Osteoarthritis and Functional Status*. *Turkish Journal of Physical Medicine and Rehabilitation*. 64(1). Pp: 1-7.

Milenia S, Rahman I. 2016. Penatalaksanaan Fisioterapi pada Kasus Osteoarthritis Genu Bilateral dengan Menggunakan Modalitas TENS, SWD dan Quadricep Setting di RSU Pindad Kota Bandung (Tesis). *Journal of Health Science and Physiotherapy*. 3(3). Pp: 125-31. doi: 10.35893/jhsp.v3i3.76.

Namutebi F, Kayima J, and Kaddumukasa M. (2021). Vitamin D and Its Association with Symptom Severity in Knee Osteoarthritis: A Cross Sectional Study at A National Referral Hospital in Uganda. *BMC Rheumatology*. 5(56). Pp: 3—7. doi:<https://doi.org/10.1186/s41927-021-00228-w>.

Nur A. 2022. Karakteristik Pasien Osteoarthritis Lutut di RSUP Dr. Wahidin Sudirohusodo Makassar Periode Januari–Desember 2021. Repository universitas Hasanuddin. Unhas.ac.id. Pp: 1-6.



Nguyen C, Lefevre-Colau MM, et al. (2016). Risk Factors and Burden of Osteoarthritis. *Annals of Physical and Rehabilitation Medicine*. 2016; 3(3): 134–8. doi: 10.1016/j.rehab.2016.01.006.

- Park CY. 2019. Review Vitamin D in the Prevention and Treatment of Osteoarthritis: From Clinical Interventions to Cellular Evidence. *Nutrients*. 11 (243). Pp: 1—17.
- Pas HI, Winters M, Haisma HJ, et al. 2017. Stem Cell Injections in Knee Osteoarthritis: A Systematic Review of the Literature. *British journal of sports medicine*. 51. Pp: 1125–33.
- Samuel AJ, Kanimozhi D. 2019. Outcome Measures Used in Patient with Knee Osteoarthritis: with Special Importance on Functional Outcome Measures. *International journal of health sciences and research*. 13(1). Pp: 52-60.
- Sananta P, Firladi HA, Widasmara D, et al. (2022). *Age and Knee Osteoarthritis Severity Relationship in Indonesian Secondary Referral Hospital*. *Jurnal Berkala Kesehatan* 8(2). Pp:124—31. doi: 10.20527/jbk.v8i2.14608.
- Sananta P, Zahrah VT, Widasmara D, et al. (2022). *Association between Diabetes Mellitus, Hypertension, and Knee Osteoarthritis in Secondary Referral Hospitals in Indonesia with Retrospective Cross-Sectional Study*. *Annals of Medicine and Surgery*. 80 (22) 104155. Pp: 1—5. doi:https://doi.org/10.1016/j.amsu.2022.104155.
- Sanghi D, Mishra A, Sharma AC et al. (2013). *Does Vitamin D Improve Osteoarthritis Of The Knee: A Randomized Controlled Pilot Trial*. *Clinical orthopaedics and related research*. 471. Pp: 3556–62. doi:10.1007/s11999-013-3201-6.
- Sathiyarayanan S, Shankar S, Padmini SK. 2017. Usefulness of WOMAC Index as a Screening Tool for Knee Osteoarthritis Among Patients Attending a Rural Health Care Center in Tamil Nadu. *International Journal of Community Medicine and Public Health*; 4(11). Pp: 4290-5.
- Sayu APT, Stanisela A and Luh. 2021. Alat Ukur untuk Menilai Kemampuan Fungsional Pasien dengan Osteoarthritis Lutut: Tinjauan Pustaka. *Intisari Sains Medis*. 12(2). Pp.415–20.
- Seo JW & Park TJ. 2008. Magnesium metabolism. *Electrolyte and Blood Pressure*, 6(2), 86–95. doi: 10.5049/EBP.2008.6.2.86
- Shimaya M, Muneta T, Ichinose S, et al. 2010. Magnesium enhances adherence and cartilage formation of synovial mesenchymal stem cells through integrins. *Osteoarthritis and Cartilage*. 18(10). Pp: 1300–9.
- Shmagel A, Onizuka N, Langsetmo L, et al. 2018. Low magnesium intake is associated with increased knee pain in subjects with radiographic knee osteoarthritis: data from the Osteoarthritis Initiative. *Osteoarthritis and Cartilage*. 26(5). Pp: 651-8.
- Hyo-Seok Na, Do SH. (2020). *Magnesium and Pain*. *Nutrients*. 12(8).



Pp.2184–2189. doi:<https://doi.org/10.3390/nu12082184>.

Shmagel A, Onizuka N, Langsetmo L, et al. (2018). *Low Magnesium Intake is Associated with Increased Knee Pain in Subjects with Radiographic Knee Osteoarthritis: Data From the Osteoarthritis Initiative*. *Osteoarthritis and Cartilage*. 26(5). Pp.651–8. doi:<https://doi.org/10.1016/j.joca.2018.02.002>.

Swastini NP, Ismunandar H, Wintoko R, et al. (2022). *Faktor Resiko Osteoarthritis*. *Medical Profession Journal of Lampung*. 12(1). Pp: 49-54. doi: 10.53089/medula.v12i1.329.

Tague SE, Clarke GL, Winter MK, et al. 2011. *Vitamin D Deficiency Promotes Skeletal Muscle Hypersensitivity and Sensory Hyperinnervation*. *Journal of neuroscience research*. 31(39). Pp: 13728—38.

Tsao YT, Shih YY, Liu YA, et al. 2017. Knockdown of SLC41A1 magnesium transporter promotes mineralization and attenuates magnesium inhibition during osteogenesis of mesenchymal stromal cells. *StemCell Research and Therapy*. 8(1). Pp: 1–10.

Veronese N, Trevisan C, De Rui M, et al. 2016. Association of Osteoarthritis with Increased Risk of Cardiovascular Diseases in the Elderly. *Arthritis Rheumatol*. 68. 1136-44.

Wang CC, Guo L, Tian FD, et al. 2017. Naringenin Regulates Production of Matrix Metalloproteinases in the Knee-Joint and Primary Cultured Articular Chondrocytes and Alleviates Pain in Rat Osteoarthritis Model. *Braz J Med Biol Res*. 50. Pp: 5714-6.

WHO. 2014. Priority Medicines for Europe and the World Update Report. http://www.who.int/medicines/areas/priority_medicines/Ch6_12Osteo.pdf.

Wilson CK, Henry RH, Nunung N. 2019. The Correlation of Body Mass Index and Age with Disability Rate in Patients with Grade II-IV Knee Osteoarthritis According to Kellgren-Lawrence at RS Phc Surabaya. *Journal Of Widya Medika Junior*. 1(1). Pp: 48–52.

Wu Z, Yang J, Chung TS, et al. 2019. The Relationship between Magnesium and Osteoarthritis of Knee. 98(45). Pp: 1–8.

Yati NP, Batubara JRL, Suryawan IWB. 2018. Vitamin D. *Badan Penerbit Ikatan Dokter Anak Indonesia*. Pp: 1—6.

Yeardon A. 2016. Knee Arthritis is a Mechanically Induced Disease with dictably Sinister Molecular Consequences. *EC Orthopaedics*. 9(3). Pp: 1-36.



Li H, Wei J, et al. (2015). Association between Dietary Magnesium Intake and Radiographic Knee Osteoarthritis. *PLoS ONE*. 10.

doi:10.1371/journal.pone.0127666.

Zhang H, Cai D, Bai X. 2020. Osteoarthritis and Cartilage, Macrophages Regulate the Progression of Osteoarthritis. 28. Pp: 555-61.



Optimized using
trial version
www.balesio.com