

DAFTAR PUSTAKA

1. BPS. Prevalensi obesitas pada penduduk umur ≥ 18 tahun menurut jenis kelamin [Internet]. [cited 2024 May 14]. Available from: <https://www.bps.go.id/id/statistics-table/2/MTc4MSMy/prevalensi-obesitas-pada-penduduk-umur--18-tahun-menurut-jenis-kelamin.html>
2. Kemenkes. Laporan nasional riskesdas 2018. Jakarta: Badan Penelitian dan Pengembangan Kesehatan; 2019.
3. Dinkes Jateng. Laporan hasil riset kesehatan dasar (Riskesdas) provinsi jawa tengah tahun 2007. Jakarta: Badan Penelitian dan Pengembangan Kesehatan; 2009.
4. Lin X, Li H. Obesity: Epidemiology, pathophysiology, and therapeutics. *Front Endocrinol (Lausanne)*. 2021 Sep;12:706978.
5. Kolasinski SL, Neogi T, Hochberg MC, Oatis C, Guyatt G, Block J, et al. 2019 American college of rheumatology/arthritis foundation guideline for the management of osteoarthritis of the hand, hip, and knee. *Arthritis & Rheumatology*. 2020 Feb;72(2):220–33.
6. Murphy L, Schwartz TA, Helmick CG, Renner JB, Tudor G, Koch G, et al. Lifetime risk of symptomatic knee osteoarthritis. *Arthritis & Rheumatism*. 2008 Sep 15;59(9):1207–13.
7. Steinmetz JD, Culbreth GT, Haile LM, Rafferty Q, Lo J, Fukutaki KG, et al. Global, regional, and national burden of osteoarthritis, 1990–2020 and projections to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet Rheumatology*. 2023 Sep;5(9):e508–22.
8. Osteoarthritis [Internet]. [cited 2024 May 22]. Available from: <https://www.who.int/news-room/fact-sheets/detail/osteoarthritis>
9. Hellmi RY, Najirman, Manuaba RW, Rahmadi AR, Kurniari PK, Chair M, et al. Diagnosis dan pengelolaan osteoarthritis (Lutut, tangan, dan panggul). Perhimpunan Reumatologi Indonesia; 2021.
10. Johnson VL, Hunter DJ. The epidemiology of osteoarthritis. *Best Practice & Research Clinical Rheumatology*. 2014 Feb;28(1):5–15.
11. Raud B, Gay C, Guiguet-Auclair C, Bonnin A, Gerbaud L, Pereira B, et al. Level of obesity is directly associated with the clinical and functional consequences of knee osteoarthritis. *Sci Rep*. 2020 Feb 27;10(1):3601.
12. Rong S, Zou L, Wang Z, Pan H, Yang Y. Purine in common plant food in china. *Wei Sheng Yang Jiu*. 2012;41(1):92–5, 101.
13. Aihemaitjiang S, Zhang Y, Zhang L, Yang J, Ye C, Halimulati M, et al. The association between purine-rich food intake and hyperuricemia: a cross-sectional study in chinese adult residents. *Nutrients*. 2020;12(12):3835.
14. Zhu Y, Li J, Zhang Y, Zhang W, Doherty M, Yang Z, et al. Association between hyperuricaemia and hand osteoarthritis: data from the xiangya osteoarthritis study. *RMD Open*. 2023;9(4):e003683.

15. Bassiouni SARAK, Adalany MAE, Abdelsalam M, Gharbia OM. Association of serum uric acid with clinical and radiological severity of knee osteoarthritis in non-gouty patients. *Egyptian Rheumatology and Rehabilitation*. 2021;48(8).
16. Sarker S, Kamal T, Dina NA, Sharmin S. Association of serum uric acid with the severity of knee osteoarthritis in a tertiary care hospital. *J Ortho Sports Med*. 2023;05(01).
17. Bevis M, Marshall M, Rathod T, Roddy E. The association between gout and radiographic hand, knee and foot osteoarthritis: a cross-sectional study. *BMC Musculoskelet Disord*. 2016 Apr 16;17:169.
18. Liang Z, WU D, Zhang H, Gu J. Association between asymptomatic hyperuricemia and risk of arthritis, findings from a US National Survey 2007–2018. *BMJ Open*. 2024;14(2).
19. Hapsari D, Rahmanto S, Prastowo B. Hubungan antara kadar asam urat dengan risiko osteoarthritis knee pada lansia di puskesmas mulyorejo kota malang. *Prepotif*. 2024;8(1).
20. Arthritis Types | CDC [Internet]. [cited 2024 Jun 8]. Available from: <https://www.cdc.gov/arthritis/types/index.html>
21. Ma L, Cranney A, Holroyd-Leduc JM. Acute monoarthritis: What is the cause of my patient's painful swollen joint? *Canadian Medical Association Journal*. 2009 Jan 6;180(1):59–65.
22. Berman S, Bucher J, Koyfman A, Long BJ. Emergent complications of rheumatoid arthritis. *J Emerg Med*. 2018 Nov;55(5):647–58.
23. Krenn V, Waldstein W, Najm A, Perino G, Gaulke R. Histopathological classification principles of rheumatic joint diseases : Contribution of pathology to the diagnosis. *Orthopade*. 2018 Nov;47(11):941–8.
24. Singh JA, Yu S. The burden of septic arthritis on the U.S. inpatient care: A national study. *PLoS One*. 2017;12(8):e0182577.
25. Kleiber Balderrama C, Rosenthal AK, Lans D, Singh JA, Bartels CM. Calcium pyrophosphate deposition disease and associated medical comorbidities: A national cross-sectional study of us veterans. *Arthritis Care Res (Hoboken)*. 2017 Sep;69(9):1400–6.
26. Justiz Vaillant AA, Goyal A, Varacallo M. Systemic lupus erythematosus. In: *StatPearls*. Treasure Island (FL): StatPearls Publishing; 2024.
27. Osteoarthritis | CDC [Internet]. [cited 2024 Jun 8]. Available from: <https://www.cdc.gov/arthritis/types/osteoarthritis.htm>
28. Briggs AM, Cross MJ, Hoy DG, Sánchez-Riera L, Blyth FM, Woolf AD, et al. Musculoskeletal health conditions represent a global threat to healthy aging: A report for the 2015 world health organization world report on ageing and health. *GERONT*. 2016 Apr;56(Suppl 2):S243–55.
29. Zhang Y, Jordan JM. Epidemiology of osteoarthritis. *Rheum Dis Clin North Am*. 2008 Aug;34(3):515–29.

30. Bortoluzzi A, Furini F, Scirè CA. Osteoarthritis and its management - Epidemiology, nutritional aspects and environmental factors. *Autoimmunity Reviews*. 2018 Nov;17(11):1097–104.
31. Loeser RF, Collins JA, Diekman BO. Ageing and the pathogenesis of osteoarthritis. *Nat Rev Rheumatol*. 2016 Jul;12(7):412–20.
32. Thomas AC, Hubbard-Turner T, Wikstrom EA, Palmieri-Smith RM. Epidemiology of posttraumatic osteoarthritis. *J Athl Train*. 2017 Jun 2;52(6):491–6.
33. Dong Y, Yan Y, Zhou J, Zhou Q, Wei H. Evidence on risk factors for knee osteoarthritis in middle-older aged: a systematic review and meta analysis. *J Orthop Surg Res*. 2023 Aug 29;18(1):634.
34. Blagojevic M, Jinks C, Jeffery A, Jordan KP. Risk factors for onset of osteoarthritis of the knee in older adults: a systematic review and meta-analysis. *Osteoarthritis Cartilage*. 2010 Jan;18(1):24–33.
35. Denoble AE, Huffman KM, Stabler TV, Kelly SJ, Hershfield MS, McDaniel GE, et al. Uric acid is a danger signal of increasing risk for osteoarthritis through inflammasome activation. *Proceedings of the National Academy of Sciences*. 2011;108(5):2088–93.
36. PMK_No._25_ttg_Rencana_Aksi_Nasional_Kesehatan_Lanjut_Usia_Tahun_2016-2019_.pdf [Internet]. [cited 2025 Jan 23]. Available from: http://hukor.kemkes.go.id/uploads/produk_hukum/PMK_No._25_ttg_Rencana_Aksi_Nasional_Kesehatan_Lanjut_Usia_Tahun_2016-2019_.pdf
37. Dai SM, Shan ZZ, Nakamura H, Masuko-Hongo K, Kato T, Nishioka K, et al. Catabolic stress induces features of chondrocyte senescence through overexpression of caveolin 1: possible involvement of caveolin 1-induced down-regulation of articular chondrocytes in the pathogenesis of osteoarthritis. *Arthritis Rheum*. 2006 Mar;54(3):818–31.
38. Vinatier C, Domínguez E, Guicheux J, Caramés B. Role of the Inflammation-Autophagy-Senescence Integrative Network in Osteoarthritis. *Front Physiol*. 2018;9:706.
39. Ashkavand Z, Malekinejad H, Vishwanath BS. The pathophysiology of osteoarthritis. *Journal of Pharmacy Research*. 2013;7(1):132–138.
40. Reginato AM, Olsen BR. The role of structural genes in the pathogenesis of osteoarthritic disorders. *Arthritis Res*. 2002;4(6):337–45.
41. Srikanth VK, Fryer JL, Zhai G, Winzenberg TM, Hosmer D, Jones G. A meta-analysis of sex differences prevalence, incidence and severity of osteoarthritis. *Osteoarthritis and Cartilage*. 2005;13(9):769–781.
42. Bay-Jensen AC, Tabassi NC, Sondergaard LV, Andersen TL, Dagnaes-Hansen F, Garnero P, Kassem M, Delaissé JM. The response to oestrogen deprivation of the cartilage collagen degradation marker, CTX-II, is unique compared with other markers of collagen turnover. *Arthritis Res Ther*. 2009;11(1):R9. doi: 10.1186/ar2596. PMID: 20527083; PMCID: PMC2688240.

43. Peshkova M, Lychagin A, Lipina M, Di Matteo B, Anzillotti G, Ronzoni F, Kosheleva N, Shpichka A, Royuk V, Fomin V, Kalinsky E, Timashev P, Kon E. Gender-Related Aspects in Osteoarthritis Development and Progression: A Review. *Int J Mol Sci*. 2022 Mar 2;23(5):2767. doi: 10.3390/ijms23052767. PMID: 35269906; PMCID: PMC8911252.
44. Messier SP, Pater M, Beavers DP, Legault C, Loeser RF, Hunter DJ, et al. Influences of alignment and obesity on knee joint loading in osteoarthritic gait. *Osteoarthritis and Cartilage*. 2014 Jul;22(7):912–7.
45. Martillo MA, Nazzari L, Crittenden DB. The crystallization of monosodium urate. *Curr Rheumatol Rep*. 2014 Feb;16(2):400.
46. Kumar V, Abbas AK, Aster JC. Robbins basic pathology. 10th ed. Kumar V, Abbas AK, Aster JC, editors. Philadelphia, PA: Elsevier - Health Sciences Division; 2021.
47. Piva SR, Susko AM, Khoja SS, Josbeno DA, Fitzgerald GK, Toledo FGS. Links between Osteoarthritis and Diabetes: Implications for Management from a Physical Activity Perspective. *Clin Geriatr Med*. 2015 Feb;31(1):67–87.
48. Cnop M, Igoillo-Esteve M, Hughes SJ, Walker JN, Cnop I, Clark A. Longevity of human islet α - and β -cells. *Diabetes Obes Metab*. 2011 Oct;13 Suppl 1:39–46.
49. Toussierot E. Mini-review: The contribution of adipokines to joint inflammation in inflammatory rheumatic diseases. *Front Endocrinol*. 2020;11:606560
50. MacDonald I, Liu SC, Huang CC, Kuo SJ, Tsai HC, Tsang CH. Associations between adipokines in arthritic disease and implications for obesity. *International Journal of Molecular Sciences*. 2019;20(6):1505.
51. Luc B, Gribble PA, Pietrosimone BG. Osteoarthritis prevalence following anterior cruciate ligament reconstruction: a systematic review and numbers-needed-to-treat analysis. *J Athl Train*. 2014;49(6):806-819.
52. Epidemiology of osteoarthritis: literature update - PubMed [Internet]. [cited 2024 Jun 13]. Available from: <https://pubmed.ncbi.nlm.nih.gov/29227353/>
53. Vinge R, Riedstra N, Tiderius CJ, Bierma-Zeinstra S, Agricola R, Runhaar J. Hip dysplasia as risk factor for clinically relevant and radiographic hip osteoarthritis: 10-year results from the CHECK cohort. *Rheumatology*. 2025 Jan 1;64(1):149–55.
54. Zhu, S., Ji, L., He, Z. et al. Association of smoking and osteoarthritis in US (NHANES 1999–2018). *Sci Rep* 13, 3911 (2023). <https://doi.org/10.1038/s41598-023-30644-655>.
55. Kawano MM, Araújo ILA, Castro MC, Matos MA. Assessment of quality of life in patients with knee osteoarthritis. *Acta Ortop Bras*. 2015;23(6):307–10.
56. Sharma A, Kudesia P, Shi Q, Gandhi R. Anxiety and depression in patients with osteoarthritis: impact and management challenges. *Open Access Rheumatol*. 2016 Oct 31;8:103–13.
57. Krishnan Y, Grodzinsky AJ. Cartilage diseases. *Matrix Biol*. 2018 Oct;71–72:51–69.

58. Donahue SW. Krogh's principle for musculoskeletal physiology and pathology. *J Musculoskelet Neuronal Interact*. 2018 Sep 1;18(3):284–91.
59. Chen D, Shen J, Zhao W, Wang T, Han L, Hamilton JL, et al. Osteoarthritis: toward a comprehensive understanding of pathological mechanism. *Bone Res*. 2017;5:16044.
60. Zhang W, Doherty M, Peat G, Bierma-Zeinstra MA, Arden NK, Bresnihan B, et al. EULAR evidence-based recommendations for the diagnosis of knee osteoarthritis. *Ann Rheum Dis*. 2010 Mar;69(3):483–9.
61. Katz JN, Arant KR, Loeser RF. Diagnosis and Treatment of Hip and Knee Osteoarthritis: A Review. *JAMA*. 2021 Feb 9;325(6):568–78.
62. Loeser RF, Goldring SR, Scanzello CR, Goldring MB. Osteoarthritis: a disease of the joint as an organ. *Arthritis Rheum*. 2012 Jun;64(6):1697–707.
63. van den Bosch MHJ, van Lent PLEM, van der Kraan PM. Identifying effector molecules, cells, and cytokines of innate immunity in OA. *Osteoarthritis and Cartilage*. 2020;28(5):532-543.
64. Obesity and overweight [Internet]. [cited 2024 Jun 30]. Available from: <https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight>
65. Okawa Y, Mitsuhashi T, Tsuda T. Is obesity in the asia-pacific body mass index classification associated with new-onset chronic kidney disease in non-diabetic japanese men and women. *medRxiv*. 2024.
66. CDC. Defining Adult Overweight and Obesity [Internet]. Centers for Disease Control and Prevention. 2022 [cited 2024 May 13]. Available from: <https://www.cdc.gov/obesity/basics/adult-defining.html>
67. Neumann E, Frommer KW, Vasile M, Müller-Ladner U. Adipocytokines as driving forces in rheumatoid arthritis and related inflammatory diseases? *Arthritis & Rheumatism*. 2011;63(5):1159–69.
68. Yokota T, Oritani K, Takahashi I, Ishikawa J, Matsuyama A, Ouchi N, et al. Adiponectin, a new member of the family of soluble defense collagens, negatively regulates the growth of myelomonocytic progenitors and the functions of macrophages. *Blood*. 2000;96(5):1723-1732.
69. Ehling A, Schaffler A, Herfarth H, Tarner IH, Anders S, Distler O, et al. The potential of adiponectin in driving arthritis. *J Immunol*. 2006;176 (7):4468–4478.
70. Jin M, Yang F, Yang I, Yin Y, Luo JJ, Wang H, et al. Uric acid, hyperuricemia and vascular diseases. *Front Biosci*. 2012;17(2):656-69.
71. Culleton BF, Larson MG, Kannel WB, Levy D. Serum uric acid and risk for cardiovascular disease and death: the Framingham Heart Study. *Ann Intern Med*. 1999;131(1):7-13.

72. Vaidya B, Bhochhibhoya M, Nakarmi S. Synovial fluid uric acid level aids diagnosis of gout. *Biomed Rep.* 2018 Jul;9(1):60–4.
73. Popa-Nita O, Naccache PH. Crystal-induced neutrophil activation. *Immunol Cell Biol.* 2010;88(1):32–40.
74. Woo J, Swaminathan R, Cockram C, Lau E, Chan A. Association between serum uric acid and some cardiovascular risk factors in a Chinese population. *Postgrad Med J.* 1994 Jul;70(825):486–91.
75. Choi HK, McCormick N, Lu N, Rai SK, Yokose C, Zhang Y. Population Impact Attributable to Modifiable Risk Factors for Hyperuricemia. *Arthritis Rheumatol.* 2020 Jan;72(1):157–65.
76. Wen CP, Cheng TYD, Chan HT, Tsai MK, Chung WSI, Tsai SP, et al. Is high serum uric acid a risk marker or a target for treatment? Examination of its independent effect in a large cohort with low cardiovascular risk. *Am J Kidney Dis.* 2011;57(3):526.
77. De Oliveira EP, Burini RC. High plasma uric acid concentration: causes and consequences. *Diabetol Metab Syndr.* 2012 Dec;4(1):12.
78. Sastroasmoro S. *Dasar-dasar Metodologi Penelitian Klinis.* 2018.
79. Hart DJ, Spector TD. Definition and epidemiology of osteoarthritis of the hand: a review. *Osteoarthritis Cartilage.* 2000;8 Suppl A:S2–7.
80. Astri Wahyuni, Imran Safei, Prema Hapsari Hidayati, Sultan Buraena, Shulhana Mokhtar. Karakteristik Osteoarthritis Genu pada Lansia yang Mendapatkan Rehabilitasi Medik di RSUD Hajjah Andi Depu. *fmj.* 2024 Mar 10;4(1):62–72.
81. St. Nur Ashilah Nafi'ah, Prema Hapsari Hidayati, Andi Kartini Eka Yanti, Sam ADP, Abdullah RPI. Karakteristik Pasien Osteoarthritis pada Unit Rawat Jalan di Rumah Sakit Ibnu Sina Makassar Tahun 2018-2021. *fmj.* 2023 Apr 1;3(3):178–89.
82. Nugraha RW, Kurniati M, Detty AU, Marlina D. HUBUNGAN ANTARA USIA, PEKERJAAN DAN JENIS KELAMIN DENGAN KEJADIAN OSTEOARTHRITIS DI RSUD DR. H. ABDUL MOELOEK PROVINSI LAMPUNG. *JMedHealth.* 2023 Nov 12;10(10):3073–82.
83. Macías-Hernández SI, Zepeda-Borbón ER, Lara-Vázquez BI, Cuevas-Quintero NM, Morones-Alba JD, Cruz-Medina E, et al. Prevalence of clinical and radiological osteoarthritis in knee, hip, and hand in an urban adult population of Mexico City. *Reumatología Clínica.* 2020 Mar;16(2):156–60.
84. Neogi T, Zhang Y. Epidemiology of Osteoarthritis. *Rheumatic Disease Clinics of North America.* 2013 Feb;39(1):1–19.
85. Faber J, Fonseca LM. How sample size influences research outcomes. *Dental Press J Orthod.* 2014 Jul-Aug;19(4):27–9. doi: 10.1590/2176-9451.19.4.027-029.ebo. PMID: 25279518; PMCID: PMC4296634.
86. Marshall M, Watt FE, Vincent TL, Dziedzic K. Hand osteoarthritis: clinical phenotypes, molecular mechanisms and disease management. *Nat Rev Rheumatol.* 2018 Nov;14(11):641–656. doi: 10.1038/s41584-018-0095-4. PMID: 30305701.

87. Ma CA, Leung YY. Exploring the Link between Uric Acid and Osteoarthritis. *Front Med*. 2017 Dec 13;4:225.
88. Sun Y, Brenner H, Sauerland S, Günther KP, Puhl W, Stürmer T. Serum uric acid and patterns of radiographic osteoarthritis--the Ulm Osteoarthritis Study. *Scand J Rheumatol*. 2000;29(6):380-6. doi: 10.1080/030097400447589. PMID: 11132207.
89. I Aras Ş, Üstünsoy S, Armutçu F. Indices of Central and Peripheral Obesity; Anthropometric Measurements and Laboratory Parameters of Metabolic Syndrome and Thyroid Function. *Balkan Med J*. 2015 Oct;32(4):414-20. doi: 10.5152/balkanmedj.2015.151218. Epub 2015 Oct 1. PMID: 26740903; PMCID: PMC4692343.
90. Ganz R, Leunig M, Leunig-Ganz K, Harris WH. The etiology of osteoarthritis of the hip: an integrated mechanical concept. *Clin Orthop Relat Res*. 2008 Feb;466(2):264-72. doi: 10.1007/s11999-007-0060-z. Epub 2008 Jan 10. PMID: 18196405; PMCID: PMC2505145.
91. Harris WH. Etiology of osteoarthritis of the hip. *Clin Orthop Relat Res*. 1986 Dec;(213):20-33. PMID: 3780093.
92. Murray RO. The aetiology of primary osteoarthritis of the hip. *Br J Radiol*. 1965 Nov;38(455):810-24. doi: 10.1259/0007-1285-38-455-810. PMID: 5842578.
93. Go DJ, Kim DH, Kim JY, Guermazi A, Crema MD, Hunter DJ, et al. Serum uric acid and knee osteoarthritis in community residents without gout: a longitudinal study. *Rheumatology*. 2021 Oct 2;60(10):4581-90.
94. Wang S, Pillinger MH, Krasnokutsky S, Barbour KE. The association between asymptomatic hyperuricemia and knee osteoarthritis: data from the third National Health and Nutrition Examination Survey. *Osteoarthritis and Cartilage*. 2019 Sep;27(9):1301-8.
95. Neogi T, Krasnokutsky S, Pillinger MH. Urate and osteoarthritis: Evidence for a reciprocal relationship. *Joint Bone Spine*. 2019 Oct;86(5):576-582. doi: 10.1016/j.jbspin.2018.11.002. Epub 2018 Nov 22. PMID: 30471419; PMCID: PMC6531371.