

## DAFTAR PUSTAKA

- Bacci, G., Longhi, A., Ferrari, S., Briccoli, A., Donati, D., De Paolis, M. & Versari, M. 2004. Prognostic Significance of Serum Lactate Dehydrogenase in Osteosarcoma of the Extremity: Experience at Rizzoli on 1421 Patients Treated over the Last 30 Years. *Tumori Journal*. 90(5):478–484. DOI: 10.1177/030089160409000507.
- Chauhan, K., Shahrokhi, M. & Huecker, M.R. 2024. Vitamin D. In *StatPearls Treasure Island (FL): StatPearls Publishing*. Available: <http://www.ncbi.nlm.nih.gov/books/NBK441912/> [2024, July 28].
- Chen X, Yang X, Zhang M, Zhao Y, Guo S. Neutrophil-lymphocyte and platelet-lymphocyte ratios as systemic inflammatory biomarkers for atopic dermatitis in US adults: a cross-sectional NHANES study revealing subgroup heterogeneity. *Front Immunol*. 2025 Jun 18;16:1585451. doi: 10.3389/fimmu.2025.1585451. PMID: 40607418; PMCID: PMC12213362. <https://pubmed.ncbi.nlm.nih.gov/40607418/>
- Coussens LM, Werb Z. Inflammation and cancer. *Nature*. 2002 Dec 19-26;420(6917):860-7. doi: 10.1038/nature01322. PMID: 12490959; PMCID: PMC2803035.
- Durmus E, Kivrak T, Gerin F, Sunbul M, Sari I, Erdogan O. Neutrophil-to-Lymphocyte Ratio and Platelet-to-Lymphocyte Ratio are Predictors of Heart Failure. *Arq Bras Cardiol*. 2015 Dec;105(6):606-13. doi: 10.5935/abc.20150126. Epub 2015 Nov 3. PMID: 26536980; PMCID: PMC4693665. <https://pmc.ncbi.nlm.nih.gov/articles/PMC4693665/>
- Forget, P., Khalifa, C., Defour, J.-P., Latinne, D., Van Pel, M.-C. & De Kock, M. 2017. What is the normal value of the neutrophil-to-lymphocyte ratio? *BMC Research Notes*. 10(1):12. DOI: 10.1186/s13104-016-2335-5.
- Fridman WH, Pagès F, Sautès-Fridman C, Galon J. The immune contexture in human tumours: impact on clinical outcome. *Nat Rev Cancer*. 2012 Mar 15;12(4):298-306. doi: 10.1038/nrc3245. PMID: 22419253.
- Fuchs, B. & Pritchard, D.J. 2002. Etiology of Osteosarcoma: *Clinical Orthopaedics and Related Research*. 397:40–52. DOI: 10.1097/00003086-200204000-00007.
- Gnagnarella, P., Muzio, V., Caini, S., Raimondi, S., Martinoli, C., Chiocca, S., Miccolo, C., Bossi, P., et al. 2021. Vitamin D Supplementation and Cancer Mortality: Narrative Review of Observational Studies and Clinical Trials. *Nutrients*. 13(9):3285. DOI: 10.3390/nu13093285.
- Hameed, M. & Mandelker, D. 2018. Tumor Syndromes Predisposing to Osteosarcoma. *Advances in Anatomic Pathology*. 25(4):217–222. DOI: 10.1097/PAP.0000000000000190.
- Hanahan D, Weinberg RA. Hallmarks of cancer: the next generation. *Cell*. 2011 Mar 4;144(5):646-74. doi: 10.1016/j.cell.2011.02.013. PMID: 21376230.

- Hershko Klement, A., Hadi, E., Asali, A., Shavit, T., Wisner, A., Haikin, E., Barkan, Y., Biron-Shental, T., et al. 2018. Neutrophils to lymphocytes ratio and platelets to lymphocytes ratio in pregnancy: A population study. *PLOS ONE*. 13(5):e0196706. DOI: 10.1371/journal.pone.0196706.
- Heshmat-Ghahdarjani K, Sarmadi V, Heidari A, Falahati Marvasti A, Neshat S, Raeisi S. The neutrophil-to-lymphocyte ratio as a new prognostic factor in cancers: a narrative review. *Front Oncol*. 2023 Oct 4;13:1228076. doi: 10.3389/fonc.2023.1228076. PMID: 37860198; PMCID: PMC10583548. <https://pmc.ncbi.nlm.nih.gov/articles/PMC10583548/>
- Iwata, S., Uehara, K., Ogura, K., Akiyama, T., Shinoda, Y., Yonemoto, T. & Kawai, A. 2016. Reliability and Validity of a Japanese-language and Culturally Adapted Version of the Musculoskeletal Tumor Society Scoring System for the Lower Extremity. *Clinical Orthopaedics & Related Research*. 474(9):2044–2052. DOI: 10.1007/s11999-016-4880-6.
- Kansara M, Teng MW, Smyth MJ, Thomas DM. Translational biology of osteosarcoma. *Nat Rev Cancer*. 2014 Nov;14(11):722-35. doi: 10.1038/nrc3838. Epub 2014 Oct 16. PMID: 25319867.
- Kemal Ö. Power Analysis and Sample Size, When and Why? *Turk Arch Otorhinolaryngol*. 2020 Mar;58(1):3-4. doi: 10.5152/tao.2020.0330. Epub 2020 Mar 1. PMID: 32313887; PMCID: PMC7162597.
- Klein, M.J. & Siegal, G.P. 2006. Osteosarcoma: Anatomic and Histologic Variants. *American Journal of Clinical Pathology*. 125(4):555–581. DOI: 10.1309/UC6KQHLD9LV2KENN.
- Kumarasamy C, Sabarimurugan S, Madurantakam RM, Lakhotiya K, Samiappan S, Baxi S, Nachimuthu R, Gothandam KM, Jayaraj R. Prognostic significance of blood inflammatory biomarkers NLR, PLR, and LMR in cancer-A protocol for systematic review and meta-analysis. *Medicine (Baltimore)*. 2019 Jun;98(24):e14834. doi: 10.1097/MD.00000000000014834. PMID: 31192906; PMCID: PMC6587598. <https://pmc.ncbi.nlm.nih.gov/articles/PMC6587598/>
- Kundu, Z.S. 2014. Classification, imaging, biopsy and staging of osteosarcoma. *Indian Journal of Orthopaedics*. 48(3):238–246. DOI: 10.4103/0019-5413.132491.
- Kurucu, N., Şahin, G., Sarı, N., Ceylaner, S. & İlhan, İ.E. 2019. Association of vitamin D receptor gene polymorphisms with osteosarcoma risk and prognosis. *Journal of Bone Oncology*. 14:100208. DOI: 10.1016/j.jbo.2018.100208.
- Lindsey, B.A., Markel, J.E. & Kleinerman, E.S. 2016. Osteosarcoma Overview. *Rheumatology and Therapy*. 4(1):25–43. DOI: 10.1007/s40744-016-0050-2.
- Liu, B., Huang, Y., Sun, Y., Zhang, J., Yao, Y., Shen, Z., Xiang, D. & He, A. 2016. Prognostic value of inflammation-based scores in patients with osteosarcoma. *Scientific Reports*. 6(1):39862. DOI: 10.1038/srep39862.

- Liu, D., Huang, X., Xu, Z., Chen, M. & Wu, M. 2022. Predictive value of NLR and PLR in missed miscarriage. *Journal of Clinical Laboratory Analysis*. 36(3):e24250. DOI: 10.1002/jcla.24250.
- Ma XM, Sun X, Yang GW, Yu MW, Zhang GL, Yu J, Zhang Y, Wang XM. The platelet-to-lymphocyte ratio as a predictor of patient outcomes in ovarian cancer: a meta-analysis. *Climacteric*. 2017 Oct;20(5):448-455. doi: 10.1080/13697137.2017.1326894. Epub 2017 Jun 1. PMID: 28569074. <https://pubmed.ncbi.nlm.nih.gov/28569074/>.
- Minici, R., Siciliano, M. A., Ammendola, M., Santoro, R. C., Barbieri, V., Ranieri, G., & Laganà, D. (2023). Prognostic Role of Neutrophil-to-Lymphocyte Ratio (NLR), Lymphocyte-to-Monocyte Ratio (LMR), Platelet-to-Lymphocyte Ratio (PLR) and Lymphocyte-to-C Reactive Protein Ratio (LCR) in Patients with Hepatocellular Carcinoma (HCC) undergoing Chemoembolizations (TACE) of the Liver: The Unexplored Corner Linking Tumor Microenvironment, Biomarkers and Interventional Radiology. *Cancers*, 15(1), 257. <https://doi.org/10.3390/cancers15010257>.
- Misaghi, A., Goldin, A., Awad, M. & Kulidjian, A.A. 2018. Osteosarcoma: a comprehensive review. *SICOT-J*. 4:12. DOI: 10.1051/sicotj/2017028.
- Nair, R. & Maseeh, A. 2012. Vitamin D: The “sunshine” vitamin. *Journal of Pharmacology & Pharmacotherapeutics*. 3(2):118–126. DOI: 10.4103/0976-500X.95506.
- Ottaviani, G. & Jaffe, N. 2009. The Etiology of Osteosarcoma. In *Pediatric and Adolescent Osteosarcoma*. V. 152. N. Jaffe, O.S. Bruland, & S. Bielack, Eds. (Cancer Treatment and Research). Boston, MA: Springer US. 15–32. DOI: 10.1007/978-1-4419-0284-9\_2.
- Ouyang, H., Li, Z., Zhang, X., Liu, J., Wang, Q., & Li, L. (2022). Predictive value of the systemic immune-inflammation index and other inflammatory markers in pediatric osteosarcoma. *Frontiers in Public Health*, 10, 879523. <https://doi.org/10.3389/fpubh.2022.879523>
- Ozel I, Duerig I, Domnich M, Lang S, Pylaeva E, Jablonska J. The Good, the Bad, and the Ugly: Neutrophils, Angiogenesis, and Cancer. *Cancers (Basel)*. 2022 Jan 21;14(3):536. doi: 10.3390/cancers14030536. PMID: 35158807; PMCID: PMC8833332. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8833332/>
- Peng LP, Li J, Li XF. Prognostic value of neutrophil/lymphocyte, platelet/lymphocyte, lymphocyte/monocyte ratios and Glasgow prognostic score in osteosarcoma: A meta-analysis. *World J Clin Cases*. 2022 Mar 6;10(7):2194-2205. doi: 10.12998/wjcc.v10.i7.2194. PMID: 35321179; PMCID: PMC8895171. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8895171/>
- Platini H, Ferdinand E, Kohar K, Prayogo SA, Amirah S, Komariah M, Maulana S. Neutrophil-to-Lymphocyte Ratio and Platelet-to-Lymphocyte Ratio as Prognostic Markers for Advanced Non-Small-Cell Lung Cancer Treated with Immunotherapy: A Systematic Review and Meta-Analysis. *Medicina (Kaunas)*. 2022 Aug 8;58(8):1069. doi: 10.3390/medicina58081069. PMID:

36013536; PMCID: PMC9413376.  
<https://pubmed.ncbi.nlm.nih.gov/36013536/>

Prater, S. & McKeon, B. 2024. Osteosarcoma. In StatPearls. Treasure Island (FL): StatPearls Publishing. Available: <http://www.ncbi.nlm.nih.gov/books/NBK549868/> [2024, July 28].

Schrottmaier, W.C., Mussbacher, M., Salzmann, M. & Assinger, A. 2020. Platelet-leukocyte interplay during vascular disease. *Atherosclerosis*. 307:109–120.

Scully, S.P., Ghert, M.A., Zurakowski, D., Thompson, R.C. & Gebhardt, M.C. 2002. Pathologic fracture in osteosarcoma : prognostic importance and treatment implications. *The Journal of Bone and Joint Surgery. American Volume*. 84(1):49–57.

Seraphin, G., Rieger, S., Hewison, M., Capobianco, E. & Lisse, T.S. 2023. The impact of vitamin D on cancer: A mini review. *The Journal of Steroid Biochemistry and Molecular Biology*. 231:106308. DOI: 10.1016/j.jsbmb.2023.106308.

Stone, R.L., Nick, A.M., McNeish, I.A., Balkwill, F., Han, H.D., Bottsford-Miller, J., Rupaimoole, R., Armaiz-Pena, G.N., et al. 2012. Paraneoplastic Thrombocytosis in Ovarian Cancer. *New England Journal of Medicine*. 366(7):610–618. DOI: 10.1056/NEJMoa1110352.

Tamas F, Tamas CI, Suci BA, Manu DR, Cehan AR, Balasa AF. Comparative Analysis of Inflammatory Indexes in Lung Cancer Patients With and Without Brain Metastases. *Cureus*. 2024 May 23;16(5):e60921. doi: 10.7759/cureus.60921. PMID: 38910770; PMCID: PMC11193412. <https://pmc.ncbi.nlm.nih.gov/articles/PMC11193412/>

Tang, H., Liu, D., Lu, J., He, J., Ji, S., Liao, S., Wei, Q., Lu, S., et al. 2022. Significance of the neutrophil-to-lymphocyte ratio in predicting the response to neoadjuvant chemotherapy in extremity osteosarcoma: a multicentre retrospective study. *BMC Cancer*. 22(1):33. DOI: 10.1186/s12885-021-09130-7.

Tazyman, S., Lewis, C. E., & Murdoch, C. 2009. *Neutrophils: key mediators of tumour angiogenesis*. *International Journal of Experimental Pathology*, 90(3), 222-231. <https://doi.org/10.1111/j.1365-2613.2009.00641.x>

Templeton AJ, McNamara MG, Šeruga B, Vera-Badillo FE, Aneja P, Ocaña A, Leibowitz-Amit R, Sonpavde G, Knox JJ, Tran B, Tannock IF, Amir E. Prognostic role of neutrophil-to-lymphocyte ratio in solid tumors: a systematic review and meta-analysis. *J Natl Cancer Inst*. 2014 May 29;106(6):dju124. doi: 10.1093/jnci/dju124. PMID: 24875653.

Uehara, K., Ogura, K., Akiyama, T., Shinoda, Y., Iwata, S., Kobayashi, E., Tanzawa, Y., Yonemoto, T., et al. 2017. Reliability and Validity of the Musculoskeletal Tumor Society Scoring System for the Upper Extremity in Japanese Patients. *Clinical Orthopaedics & Related Research*. 475(9):2253–2259. DOI: 10.1007/s11999-017-5390-x.

- Wadhwa, N. 2014. Osteosarcoma: Diagnostic dilemmas in histopathology and prognostic factors. *Indian Journal of Orthopaedics*. 48(3):247–254. DOI: 10.4103/0019-5413.132497.
- Wang, W., Tong, Y., Sun, S., Tan, Y., Shan, Z., Sun, F., Jiang, C., Zhu, Y., et al. 2022. Predictive value of NLR and PLR in response to preoperative chemotherapy and prognosis in locally advanced gastric cancer. *Frontiers in Oncology*. 12:936206. DOI: 10.3389/fonc.2022.936206.
- Xia, W.-K., Liu, Z.-L., Shen, D., Lin, Q.-F., Su, J. & Mao, W.-D. 2016. Prognostic performance of pre-treatment NLR and PLR in patients suffering from osteosarcoma. *World Journal of Surgical Oncology*. 14(1):127. DOI: 10.1186/s12957-016-0889-2.
- Xia M, Han Y, Sun L, Li D, Zhu C, Li D. The role of neutrophils in osteosarcoma: insights from laboratory to clinic. *Front Immunol*. 2024 Nov 8;15:1490712. doi: 10.3389/fimmu.2024.1490712. PMID: 39582869; PMCID: PMC11582048. <https://pmc.ncbi.nlm.nih.gov/articles/PMC11582048/>
- Xin S, Wei G. Prognostic factors in osteosarcoma: A study level meta-analysis and systematic review of current practice. *J Bone Oncol*. 2020 Feb 21;21:100281. doi: 10.1016/j.jbo.2020.100281. PMID: 32140401; PMCID: PMC7047183. <https://pmc.ncbi.nlm.nih.gov/articles/PMC7047183/>.
- Yapar A, Tokgöz MA, Yapar D, Atalay İB, Ulucaköy C, Güngör BŞ. Diagnostic and prognostic role of neutrophil/lymphocyte ratio, platelet/lymphocyte ratio, and lymphocyte/monocyte ratio in patients with osteosarcoma. *Jt Dis Relat Surg*. 2021;32(2):489-496. doi: 10.52312/jdrs.2021.79775. Epub 2021 Jun 11. PMID: 34145828; PMCID: PMC8343865.
- Ye, X., Lu, T., Bal, W., Jia, J., Wang, L. & Zong, J. 2016. Association of neutrophil-to-lymphocyte ratio, neutrophil count, and VEGF on metastasis in patients with nasopharyngeal carcinoma. *Research Square*. 1–16.
- Zhai, Z., Gao, J., Zhu, Z., Cong, X., Lou, S., Han, B., Yin, X., Zhang, Y., et al. 2021. The Ratio of the Hemoglobin to Red Cell Distribution Width Combined with the Ratio of Platelets to Lymphocytes Can Predict the Survival of Patients with Gastric Cancer Liver Metastasis. *BioMed Research International*. 2021:1–12. DOI: 10.1155/2021/8729869.
- Zhao J, Huang W, Wu Y, Luo Y, Wu B, Cheng J, Chen J, Liu D, Li C. Prognostic role of pretreatment blood lymphocyte count in patients with solid tumors: a systematic review and meta-analysis. *Cancer Cell Int*. 2020 Jan 10;20:15. doi: 10.1186/s12935-020-1094-5. PMID: 31938023; PMCID: PMC6954501. <https://pmc.ncbi.nlm.nih.gov/articles/PMC6954501/>
- Zhu Y, Si W, Sun Q, Qin B, Zhao W, Yang J. Platelet-lymphocyte ratio acts as an indicator of poor prognosis in patients with breast cancer. *Oncotarget*. 2017 Jan 3;8(1):1023-1030. doi: 10.18632/oncotarget.13714. PMID: 27906679; PMCID: PMC5352031. <https://pmc.ncbi.nlm.nih.gov/articles/PMC5352031/>