

DAFTAR PUSTAKA

1. Zeng MS, Zeng YX. Pathogenesis and etiology of nasopharyngeal carcinoma. In: Lu JJ, Cooper JS, Lee AWM, editors. Nasopharyngeal cancer multidisciplinary management. 1st ed. Germany: Springer; 2010. p9–25
2. Wu L, Li C, Pan L. Nasopharyngeal carcinoma: a review of current updates. *Exp Ther Med.* 2018;15(4):3687–92.
3. Iskandar N, Bashiruddin J, Resturi RD, Soepardi EA. Buku ajar ilmu kesehatan telinga hidung tenggorok kepala & leher. 7th edition. Jakarta: Badan Penerbit Fakultas Kedokteran Universitas Indonesia; 2018.
4. Widiastuti. Karsinoma nasofaring kadar Bcl-2, CD44 dan VEGF. Surakarta: UNS Press; 2019.
5. Liew KY, Zulkiflee AB. Neutrophil-lymphocyte ratios in the prognostication of primary non-metastatic nasopharyngeal carcinoma. *Braz J Otorhinolaryngol.* 2018;84(6):764–771.
6. Global Cancer Observatory. 2020. Indonesia cancer fact sheet. <https://gco.iarc.fr/today/data/factsheets/populations/360-indonesia-fact-sheets.pdf> - Diunduh Februari 2023.
7. Salehiniya, Mohammadian, Mahdavifar. Nasopharyngeal cancer in the world: epidemiology, incidence, mortality and risk factors. *World Cancer Research Journal.* 2018;5(1):1–5.
8. Kusuma ID, Retnani DP, Yudhanto S. Profil klinikopatologi karsinoma nasofaring di Rumah Sakit Umum Daerah (RSUD) Dr. Saiful Anwar Malang tahun 2018-2020. *Majalah Kesehatan.* 2021;8(3):160–1.
9. Jodie RM, Rahman, S, Aladin. Gambaran terapi dan respon terapi karsinoma nasofaring di RSUP Dr. M. Djamil Padang. *2021;1(1):20–7.*
10. Yin J, Qin Y, Luo YK, Feng M, Lang JY. Prognostic value of neutrophil-to-lymphocyte ratio for nasopharyngeal carcinoma. *Medicine (United States).* 2017;96(29):1–6
11. Hermawati S. Mekanisme signaling transduktion inflamasi kronis dengan kanker. in Forkinas V Fakultas Kedokteran Gigi Universitas Jember. Jember: UPT Penerbitan UNEJ; 2013. p83–6.
12. Khusnurrokhman G, Wati FF. Tumor-promoting inflammation in lung cancer: A literature review. *Annals of Medicine and Surgery.* 2022;79:1–8

13. Singh N, Baby D, Rajguru JP, Patil PB, Thakkannavar SS, Pujari VB. Inflammation and cancer. Annals of African medicine. 2019;18(3):121–6.
14. Yamamoto T, Kawada K, Obama K. Inflammation-related biomarkers for the prediction of prognosis in colorectal cancer patients. International Journal of Molecular Sciences. 2021;22(15):1–14.
15. Mandaliya H, Jones M, Oldmeadow C, Nordman IIC. Prognostic biomarkers in stage IV non-small cell lung cancer (NSCLC): Neutrophil to lymphocyte ratio (NLR), lymphocyte to monocyte ratio (LMR), platelet to lymphocyte ratio (PLR) and advanced lung cancer inflammation index (ALI). Transl Lung Cancer Res. 2019;8(6):886–94.
16. Yang S, Zhao K, Ding X, Jiang H, Lu H. Prognostic significance of hematological markers for patients with nasopharyngeal carcinoma: a meta-analysis. J Cancer. 2019;10(11):2568–77.
17. Kadarullah O, Nurrizki HM, Maulana A. Status sel inflamasi dan stadium kanker nasofaring di RS PKU Muhammadiyah Gombong. Herb-Medicine Journal. 2022;5(1):36–40.
18. Kurnianda J, Achmad AF, Hutajulu SH. Peripheral neutrophil to lymphocyte ratio and platelet to lymphocyte ratio as prognostic factors in patients with nasopharyngeal carcinoma. InaJCC. 2021;1(2):44–9.
19. Cahyanur R, Nufus H, Irawan C. Rasio neutrofil limfosit, kesintasan tiga tahun karsinoma nasofaring stadium lokal dan lanjut. Jurnal Penyakit Dalam Indonesia. 2021;8(3):146–50.
20. Misiewicz A, Dymicka-Piekarska V. Fashionable, but what is their real clinical usefulness? NLR, LMR, and PLR as a promising indicator in colorectal cancer prognosis: a systematic review. Journal of Inflammation Research. 2023;16:69–81.
21. Kesehatan J, Mulawarman M. Clinical Stadium Relationship with Life Survival of Cervical Cancer Patients in Rsup Dr Wahidin Sudirohusodo Makassar. Jurnal Kesehatan Masyarakat Mulawarman. 2019;1(2):93–100
22. Komite Penanggulangan Kanker Nasional Kementerian Kesehatan Republik Indonesia. Pedoman nasional pelayanan kedokteran kanker nasofaring. 2017.
23. Regauer S. Nasopharynx and waldeyer's ring. In: Cardesa A, Slootweg PJ, editors. Pathology of the head and neck. Germany: Springer; 2006. p173–82.
24. Widiastuti. Karsinoma nasofaring. Kadar Bcl-2, CD44, dan VEGF. Surakarta: Penerbitan dan Pencetakan UNS (UNS Press); 2019.

25. Mankowski NL, Bordoni B (2020) Anatomy, Head and Neck, Nasopharynx. Treasure Island (FL): StatPearls. <https://www.ncbi.nlm.nih.gov/books/NBK557635/> - diunduh pada Februari 2023.
26. Cancer Research UK (2021). What is nasopharyngeal cancer. www.cancerresearchuk.org/about-cancer/nasopharyngeal-cancer/about – Diunduh Desember 2023.
27. Amanah NS. Faktor-faktor penyebab terjadinya karsinoma nasofaring (KNF). Wellness and Healthy Magazine. 2020;2(1):113–20.
28. Liew KY, Zulkiflee AB. Neutrophil-lymphocyte ratios in the prognostication of primary non-metastatic nasopharyngeal carcinoma. Braz J Otorhinolaryngol. 2018;84(6):764–71.
29. Adham M, Kurniawan A, Muhtadi A, Roezin A, Hermani B, Gondhowiardjo S, et al. Nasopharyngeal carcinoma in indonesia: Epidemiology, incidence, signs, and symptoms at presentation. Chin J Cancer. 2012;31(4): 185–96.
30. Rahman S, Budiman J, Subroto H. Faktor Risiko Non viral Pada Karsinoma Nasofaring. Jurnal Kesehatan Andalas. 2015;4(3):988–95.
31. Sudiono J, Hassan D. DNA Epstein-Barr virus (EBV) sebagai biomarker diagnosis karsinoma nasofaring (Epstein-Barr virus (EBV) DNA as biomarker of nasopharyngeal carcinoma diagnosis). Dental Journal. 2013;46(3):140–47.
32. Tsang CM, Tsao SW. The role of Epstein-Barr virus infection in the pathogenesis of nasopharyngeal carcinoma. Virologica Sinica. 2015;30(2):107–21.
33. Abdullah B, Balasubramanian A, Lazim NM. An Evidence-Based Approach to the Management of Nasopharyngeal Cancer: From Basic Science to Clinical Presentation and Treatment. 2020.
34. Wang KH, Austin SA, Chen SH, Sonne DC, Gurushanthaiah D. Nasopharyngeal Carcinoma Diagnostic Challenge in a Nonendemic Setting: Our Experience with 101 Patients. The Permanente Journal. 2017;21:16–180
35. Dawolo AP, Utama DS, Kasim BI. Profil Klinis Karsinoma Nasofaring di Departemen THT-KL RSUP Dr. Mohammad Hoesin Palembang Tahun 2014-2015. Majalah Kedokteran Sriwijaya. 2017;49(1):1–9.
36. Tabuchi K, Nakayama M, Nishimura B, Hayashi K, Hara A. Early Detection of Nasopharyngeal Carcinoma. Int J Otolaryngol. 2017;44(7):478–81.

37. Wei WI, Kwong DLW. Current management strategy of nasopharyngeal carcinoma. Clinical and Experimental Otorhinolaryngology. 2010;3(1): 1–12
38. American Joint Committee on Cancer. AJCC cancer staging manual. 8th ed. Chicago: American College of Surgeons; 2018. p107–108.
39. Guo R, Mao Y, Tang L, Chen L, Sun Y, Ma J. Nasopharyngeal carcinoma special feature: review article. The evolution of nasopharyngeal carcinoma staging. Br J Radiol.2019;92:1–9.
40. Kundu JK, Surh YJ. Inflammation: Gearing the journey to cancer. Mutation Research - Reviews in Mutation Research. 2008;659(1-2):15–30.
41. Mantovani A, Allavena P, Sica A, Balkwill F. Cancer-related inflammation. Nature. 2008;454(7203):436–44.
42. Nugraha G, Sahri M, Kurniasari DW, Maifanda AS, Sugiarto SK, Syaifulah MB. Pemeriksaan Hematologi Rutin Pada Tenaga Laboratorium Universitas Nahdlatul Ulama Surabaya. UNJSA. 2021;711–18.
43. Buonacera A, Stanganelli B, Colaci M, Malatino, L. Neutrophil to Lymphocyte Ratio: An Emerging Marker of the Relationships between the Immune System and Diseases. International Journal of Molecular Sciences. 2022;23(7):1–10.
44. Amanda DA. Rasio Neutrofil-Limfosit pada Covid-19. Wellness and Healthy Magazine. 2020;2(2):219–23.
45. Zhao J, Huang W, Wu Y, Luo Y, Wu B, Cheng J, et al. Prognostic role of pretreatment blood lymphocyte count in patients with solid tumors: A systematic review and meta-analysis. Cancer Cell International. 2020;20(15): 1–14.
46. Hartoyo E, Rose D, Hadi K. Analisis Komparatif Neutrophil-to-Lymphocyte, Platelet-to-Lymphocyte Ratio, Monocyte-to-Lymphocyte Ratio dan Derived Neutrophil-to-Lymphocyte Ratio Terkait Derajat Keparahan COVID-19 pada Pasien Anak di Rumah Sakit Umum Daerah Ulin Banjarmasin. Sari Pediatri 2023;24(6):359–69
47. SCNIR. (2021). Calculating an absolute neutrophil count. <https://www.scnir-neutropenia.uw.edu/calculating-an-absolute-neutrophil-count/> – diunduh Desember 2023
48. Florentina P, Husni, Sari D. Perbedaan Rerata Absolute Lymphocyte Count Pada Pasien Coronavirus Disease 2019 Derajat Ringan-Sedang Dan Berat-Kritis. Majalah Kedokteran Andalas. 2023;46(4):555–59
49. Salim DK, Mutlu H, Eryilmaz MK, Salim O, Musri FY, Tural D, et al. Neutrophil to lymphocyte ratio is an independent prognostic factor

- in patients with recurrent or metastatic head and neck squamous cell cancer. *Mol Clin Oncol.* 2015;3(4):839–42.
50. Kartika OD, Purwanto B, Dewi YA. Neutrophil to Lymphocyte Ratio within Clinical Staging of Head and Neck Squamous Cell Carcinoma. *Althea Medical Journal.* 2019;6(4):176–80.
51. Lu A, Li H, Zheng Y, Tang M, Li J, Wu H, et al. Prognostic significance of neutrophil to lymphocyte ratio, lymphocyte to monocyte ratio, and platelet to lymphocyte ratio in patients with nasopharyngeal carcinoma. *Biomed Res Int.* 2017;2017:1–7.
52. Kumarasamy C, Tiwary V, Sunil K, Suresh D, Shetty S, Muthukaliannan GK, et al. Prognostic utility of platelet-lymphocyte ratio, neutrophil-lymphocyte ratio and monocyte-lymphocyte ratio in head and neck cancers: A detailed prisma compliant systematic review and meta-analysis. *Cancers.* 2021;13(16):1–20.
53. Mazza MG, Lucchi S, Tringali AGM, Rossetti M, Botti ER, Clerici M. Neutrophil/lymphocyte ratio and platelet/lymphocyte ratio in mood disorders: A meta-analysis. *Progress in Neuro-Psychopharmacology and Biological Psychiatry.* 2018;84:229–36.
54. Tan D, Fu Y, Su Q, Wang H. Prognostic role of platelet-lymphocyte ratio in colorectal cancer A systematic review and meta-analysis. *Medicine (United States).* 2016;95(24):1–8
55. Balta S, Ozturk C. The platelet-lymphocyte ratio: A simple, inexpensive and rapid prognostic marker for cardiovascular events. *Platelets.* 2015;26(7):680–1.
56. Li B, Zhou P, Liu Y, Wei H, Yang X, Chen T, et al. Platelet-to-lymphocyte ratio in advanced Cancer: Review and meta-analysis. *Clinica Chimica Acta.* 2018;483:48–56.
57. Gusti I, Suryawisesa IB, Widiana IK, Setiawan IGB. Hubungan antara platelet lymphocyte ratio (PLR) dengan subtipe kanker payudara pada pasien kanker payudara di Rumah Sakit Umum Pusat Sanglah, Denpasar. *Intisari Sains Medis.* 2020;11(3):1475–81.
58. Takenaka Y, Oya R, Kitamiura T, Ashida N, Shimizu K, Takemura K, et al. Platelet count and platelet-lymphocyte ratio as prognostic markers for head and neck squamous cell carcinoma: Meta-analysis. *Wiley* 2018;40(12):2714–23.
59. Cancer Research UK. (2021). Cancer Incidence by Age. <https://www.cancerresearchuk.org/health-professional/cancer-statistics/incidence/age#heading-Three> – diunduh April 2024.
60. Tahir N, Zahra F (2023). Neutrophilia. Treasure Island (FL): StatPearls. <https://www.ncbi.nlm.nih.gov/books/NBK570571/> - diunduh April 2024.

61. Maqbul PJ, Leksana E, Harahap MS. Rasio Neutrofil Limfosit dan Limfositopenia sebagai Penanda Sepsis. Medica Hospitalia. 2019;6(1):54–8.
62. Hamad H, Mangla A. Lymphocytosis. Treasure Island (FL): StatPearls. <https://www.ncbi.nlm.nih.gov/books/NBK549819/> - diunduh April 2024.
63. Mangaonkar A, Tande A, Bakele D. Differential Diagnosis and Workup of Monocytosis: A Systematic Approach to a Common Hematologic Finding. Current Hematologic Malignancy Reports. 2021;16:267–75.
64. Stiff PJ. Platelets. In: Walker HK, Hall WD, Hurst JW, editors. Clinical Methods: The History, Physical, and Laboratory Examinations. 3rd edition. Boston: Butterworths; 1990. Chapter 154.
65. Kuswandi A, Kuswandi NH, Kasim M, Tan'im, Wulandari M. Karakteristik Histopatologi dan Stadium Klinis Kanker Nasofaring. 2020;11(1):243–51.
66. Saraswati I, Nuaba I, Suanda I. Karakteristik Pasien Karsinoma Nasofaring di RSUP Sanglah Denpasar Tahun 2014-2016. 2019;8(1): 56–60.
67. Hibatullah H, Mohamad PB, Heriady Y. Karakteristik Penderita Karsinoma Nasofaring di Rumah Sakit Umum Daerah Al-Ihsan Bandung Periode 2017-2019. Prosiding Kedokteran. 2021;7(1):54–62.
68. Aslam, Irawiraman H, Riastiti Y. Gambaran Penderita Karsinoma Nasofaring di Rsud Abdul Wahab Sjahranie Samarinda Periode 2016-2020. Jurnal Verdure. 2022;4(1):306–15.
69. Arania R, Puji SM, Jayanti I. Hubungan Faktor Usia, Jenis Kelamin Dan Gejala Klinis Dengan Kejadian Karsinoma Nasofaring Di Rsud Dr. H. Abdul Moeloek Provinsi Lampung Tahun 2013 – 2014. Jurnal Ilmu Kedokteran dan Kesehatan. 2014;1(3).
70. Faiza S, Rahman S, Asri A. Karakteristik klinis dan patologis karsinoma nasofaring di Bagian THT-KL RSUP Dr.M. Djamil Padang. Jurnal Kesehatan Andalas. 2016;5(1):90–6.
71. Adrezki M, Yusuf M, Rintjap JM, Sujuthi A, Wartati S, Syamsu RF. Karakteristik Pasien Karsinoma Nasofaring Di RS. Pelamonia Makassar Tahun 2020-2022. Fakumi Medical Journal. 2023;3(5):335–44.
72. Naomi SM, Dewi YA, Agustina H. Association between Histopathological Grading and Clinical Staging in Nasopharyngeal Carcinoma. Journal of Medicine and Health. 2018;2(2):730–7.

73. Hartono B, Pontoh Victor, Merung M. Penilaian Jumlah Neutrofil, Limfosit, dan Trombosit, Kadar Protein Reaktif C, Kadar Albumin, Rasio Neutrofil Limfosit, serta Rasio Trombosit Limfosit Sebelum dan Setelah Terapi Pada Penderita Karsinoma Payudara. *Jurnal Biomedik*. 2015;7(3):163–70.
74. Su Z, Mao YP, OuYang PY, Tang J, Xie FY. Initial hyperleukocytosis and neutrophilia in nasopharyngeal carcinoma: Incidence and prognostic impact. *PLoS One*. 2015;10(9):1–14.
75. Xion S, Dong L, Cheng L. Neutrophils in cancer carcinogenesis and metastasis. *Journal of Hematology and Oncology*. 2021;14(173):1–17.
76. Giese M, Hind L, Huttenlocher A. Neutrophil Plasticity in The Tumor Microenviroment. *Blood*. 2019;133(20):2159–67.
77. Ivanova E, Oekhov A. T helper Lymphocyte Subsets and Plasticity in Autoimmunity and Cancer: An Overview. *Biomed Research Internaional*. 2015;1–9.
78. Kalitouw P, Pontoh V, Merung M, Manginstar C, Langi F. Analisa Hubungan Antara Kadar Sel Monosit Darah Tepi pada Pasien Kanker Payudara Stadium Lanjut Sebelum dan Sesudah Terapi. *Jurnal Bedah Nasional*. 2023;7(1):1–7.
79. Feng F, Zheng G, Wang Q, Liu S, Liu Z, Xu G, et al. Low Lymphocyte Count and High Monocyte Count Predicts Poor Prognostic of Gastric Cancer. *BMC Gastroenterology*. 2018;18(148):1–7.
80. Jiang R, Cai X, Yang Z, Yan Y, Zou X, Guo L, et al. Elevated peripheral blood lymphocyteto-monocyte ratio predicts a favorable prognosis in the patients with metastatic nasopharyngeal carcinoma. *Chinese Journal of Cancer*. 2015;34(23): 1–10.
81. Yang L, Liu G, Li Y, Pan Y. The emergence of tumor-infiltrating lymphocytes in nasopharyngeal carcinoma: Predictive value and immunotherapy implications. *Genes and Diseases*. 2022;9:1208–19.
82. Olingy C, Dinh H, Hedrick C. Monocyte Heterogeneity and Functions in Cancer. *Journal of Leukocyte Biology*. 2019;106:309–22.
83. Reyani NN. Hubungan Jumlah Trombosit dengan Stadium Karsinoma Nasofaring di RSUD Dr. M. Djamil Padang. *Jurnal Ilmu Kesehatan Indonesia*. 2023;4(1):1–14.
84. Xie X, Zeng X, Cao S, Hu X, Shi Q, Li D, et al. Elevated Pretreatment Platelet Distribution Width and Platelet Count Predict Poor Prognosis in Nasopharyngeal Carcinoma. 2017;8(62):106089–97.
85. Aulia NH, Irawiraman H, Susanti E. Hubungan Antara Rasio Neutrofil Terhadap Limfosit Preterapi Dengan Angka Harapan Hidup

Pasien Karsinoma Nasofaring Di RSUD Abdoel Wahab Sjahranie Tahun 2018. Jurnal Kesehatan Andalas. 2023;12(1):27–32.

86. Gundog M, Basaran H. The prognostic value of neutrophil-to-lymphocyte ratio and platelet-to-lymphocyte ratio in nasopharyngeal cancer. JBUON. 2020;25(1):367–75.
87. Zhou L, Zhang Z, Tian Y, Li Z, Liu Z, Zhu S. The Critical Role of Platelet in Cancer Progression and Metastasis. European Journal of Medical Research. 2023;28(385):1–12.
88. Purba DM, Siregar C, Winanto ID. Hubungan Rasio Limfosit Pre Operasi Dengan Prognosis Pasien Osteosarkoma. Jurnal Kesehatan Prima. 2017;11(2):118–23.
89. Bonardo B, Christina H, Fransisca C, Croline L, Sudiono J. Peran Monosit (Makrofag) pada Proses Angiogenesis dan Fibrosis. Seminar Nasional Cendekiawan. 2015:254–59.
90. Kurnia NF, Punagi AQ. The Relationship between Neutrophil on Lymphocyte Ratio with Clinical Stage of Nasopharyngeal Carcinoma Patients. Nusantara Medical Science Journal. 2022;7(1):50–60.
91. Yao JJ, Zhu FT, Dong J, Liang ZB, Yang LW, Chen SY, et al. Prognostic value of neutrophil-to-lymphocyte ratio in advanced nasopharyngeal carcinoma: A large institution-based cohort study from an endemic area. BMC Cancer. 2019;19(37):1–8.
92. Haryanti DV, Sangging PR. Korelasi Antara Rasio Neutrofil Limfosit dengan Stadium Kanker Payudara Berdasarkan American Joint Committe on Cancer Edisi 8 di RSUD DR. H. Abdul Moeloek Provinsi Lampung. Medula. 2023;13(7):1198–202.
93. Chua MLK, Tan SH, Kusumawidjaja G, Shwe MTT, Cheah SL, Fong KW, et al. Neutrophil-to-lymphocyte ratio as a prognostic marker in locally advanced nasopharyngeal carcinoma: A pooled analysis of two randomised controlled trials. European Journal of Cancer. 2016;67:119–29.
94. Yudistira G, Dewi YA, Sudiro M. Platelet to Lymphocytes Ratio in the Clinical Stage of Nasopharyngeal Carcinoma. Atlantis Press. 2023;243–7.
95. Cen RX, Li YG, Li Y. Platelet-to-lymphocyte ratio as a potential prognostic factor in nasopharyngeal carcinoma: A meta-analysis. Medicine (United States). 2019;98(38):1–8.
96. Zhang J, feng W, Ye Z, Wei Y, Li L, Yang Y. Prognostic significance of platelet-to-lymphocyte ratio in patients with nasopharyngeal carcinoma: A meta-analysis. Future Oncology. 2019;16:117–27.