

DAFTAR PUSTAKA

- Abdu, H., & Seyoum, G. 2022. Sex Differences in Stroke Risk Factors, Clinical Profiles, and In-Hospital Outcomes Among Stroke Patients Admitted to the Medical Ward of Dessie Comprehensive Hospital, Degenerative Northeast Specialized Ethiopia. *Neurological Neuromuscular*. 12(10): 133–144.
- Adane, T., Melku, M., Worku, Y. B., Fasil, A., Aynalem, M., Kelem, A., & Getawa, S. (2023). The Association between *Neutrophil-to-Lymphocyte Ratio* and Glycemic Control in Type 2 Diabetes Mellitus: A Systematic Review and Meta-Analysis. *Journal of Diabetes Research*. 1(5): 1-11.
- Afshar, F., Daraie, M., Mohammadi, F., Seifouri, K., Amin Afshari, S., Heidari Some'eh, S., Yadegar, A., Naghavi, P., Esteghamati, A., Rabizadeh, S., Abbaszadeh, M., Nakhjavani, M., & Karimpour Reyhan, S. 2025. *Neutrophil to Lymphocyte Ratio* (NLR); an accurate inflammatory marker to predict diabetic foot ulcer amputation: a matched case-control study. *BMC Endocrine Disorders*, 25(1): 1-12.
- Almuklass, A. M., Alawad, Y. A., Alanazi, A. S., Alamro, A. A., & Alagedi, F. H. (2023). Hyperlipidemia and Hypertension Are Associated With Intracerebral Hemorrhage Incidence : A Retrospective Study. *Cureus*.15(1): 1–10.
- Alupo, P., Katagira, W., Mukunya, D., Okimat, P., Tejwani, V., Kayongo, A., Nalunjogi, J., Robertson, N. M., Jones, R., Hurst, J. R., Kirenga, B., & Siddharthan, T. 2024. The *Neutrophil-to-Lymphocyte Ratio* as a Predictor of Acute Exacerbations Among Patients With COPD in Uganda. *Chronic Obstructive Pulmonary Disease*. 11(2): 187–195.
- Andrian, & Henny Putri Wahyuni. 2023. Perdarahan Intrakranial. *Jurnal Riset Rumpun Ilmu Kedokteran*. 2(1): 150–165.
- Anindhita, T., Harris., S., Wiratman, W. 2022. *Buku Ajar Neurologi FK UI*. Edisi Kedua. Fakultas Kedokteran Universitas Indonesia, Jakarta.
- Anwar, S., Khan, A., Khan, M. A., Nabi, Z. A., Khan, S., & Wassan, S. M. 2024. *Evaluation of Relationship between Neutrophil to Lymphocyte Ratio and Rheumatoid Arthritis Severity*. 18(01): 128–130.
- Archilovna, G.M., Muratovna, M.R., Maratovna, E.Z., Baltabaevna, O.M., & Battakova, S. B. 2021. Prognostic Significance of Neutrophil-To-Lymphocyte Ratio in the Development of Post-Stroke Cognitive Impairment. *Infiniti Publishing House*. 14(3): 1-9.
- Banda, K. J., Chu, H., Kang, X. L., Liu, D., Pien, L. C., Jen, H. J., Hsiao, S. T. S., & Chou, K. R. 2022. Prevalence of dysphagia and risk of pneumonia and mortality in acute stroke patients: a meta-analysis. *BMC Geriatrics*. 22(1): 1-14.

- Bernstein, J.M., Girard, R., Polster, S., Srinath, A., Romanos, S., Awad, I. A., & Sansing, L. H. 2022. Cerebral hemorrhage: Pathophysiology, treatment, and future directions. *Circulation Research*.130(8):1204–1229.
- Bertheloot, D., Latz, E., & Franklin, B. S. 2021. Necroptosis, pyroptosis and apoptosis: an intricate game of cell death. *Cellular and Molecular Immunology*, 18(5): 1106–1121.
- Bushnell, C., Kernan, W. N., Sharrief, A. Z., Chaturvedi, S., Cole, J. W., Cornwell, W. K., Cosby-Gaither, C., Doyle, S., Goldstein, L. B., Lennon, O., Levine, D. A., Love, M., Miller, E., Nguyen-Huynh, M., Rasmussen-Winkler, J., Rexrode, K. M., Rosendale, N., Sarma, S., Shimbo, D., Whelton, P. 2024. 2024 Guideline for the Primary Prevention of Stroke: A Guideline From the American Heart Association/American Stroke Association. *In Stroke*. 55(12): e344-e424.
- Chen, C., Gu, L., Chen, L., Hu, W., Feng, X., Qiu, F. *et al.* 2024. *Neutrophil-to-Lymphocyte Ratio* and Platelet-to-Lymphocyte Ratio as Potential Predictors of Prognosis in Acute Ischemic Stroke. *Frontiers in Neurology*. 11(1): 1-9.
- Chen, C., Xie, Y., Pu, M., Deng, L., & Li, Z. 2023. Age-related differences in risk factor clinical characteristics, and outcomes for intracerebral hemorrhage. *Front Aging Neurosci*.15(11): 1-10.
- Cheng, J., Ma, A., Yang, J., Dong, M., Liao, X., & Kang, Y. 2021. The *Neutrophil to Lymphocyte Ratio* is an independent predictor for severe COVID-19: Evidence from a multicenter case-control study and meta-analyses. *Wiener Klinische Wochenschrift*, 133(8): 882–891.
- Dewi, L., Fitraneti, E. 2024. Stroke Iskemik. *Scientific Journal*. 3(6): 379-388.
- Dhahir, M.A., Hall, W.A., Das, J.M., Sharma, S. 2025. *Edema Paru Neurogenik*. StatPearls, Treasure Island.
- Du, Y., Zhang, J., Li, N., Guo, J., Liu, X., Bian, L., Zhao, X., & Liu, Y. 2022. Association between the C-reactive protein to albumin ratio and adverse clinical prognosis in patients with young stroke. *Frontiers in Neurology*, 13(5): 1-8.
- Dulamea, A. O., & Lupescu, I. C. 2024. Cerebral cavernous malformations – An overview on genetics, clinical aspects and therapeutic strategies. *Journal of the Neurological Sciences*. 461(5): 1-12.
- Ernawati, & Baidah. 2022. *Buku Ajar Keperawatan Gawat Darurat*. LPPM STIKES Cahaya Bangsa, Kalimantan Selatan.
- Foshi, M., Anna, L., Gabrielle, C., & Conversi, F. 2024. Sex Differences in the Epidemiology of Intracerebral Hemorrhage Over 10 Years in a Population-Based Stroke Registry. *Journal Neuro Science*.13(1): 1–11.
- Fu, X., Liu, H., Huang, G., & Dai, S. S. 2021. The emerging role of neutrophils in autoimmune-associated disorders: effector, predictor, and therapeutic targets. *MedComm*. 2(3): 402–413.

- Ghozy, S., El-Qushayri, A. E., Varney, J., Kacimi, S. E. O., Bahbah, E. I., Morra, M. E., Shah, J., Kallmes, K. M., Abbas, A. S., Elfil, M., Alghamdi, B. S., Ashraf, G., Alhabbab, R., & Dmytriw, A. A. 2022. The prognostic value of *Neutrophil-to-Lymphocyte Ratio* in patients with traumatic brain injury: A systematic review. *Frontiers in Neurology*, 13(10): 1-14.
- Graça, S. C., Mosca, T., Gagliardi, V. D. B., Forte, W. C. N., & Gagliardi, R. J. 2024. Prognostic Impact of *Neutrophil-to-Lymphocyte Ratio* in Ischemic Stroke. *Journal of Personalized Medicine*. 14(12): 1-11.
- Grainger, B. T., McFadyen, J. D., & Tran, H. 2024. Between a rock and a hard place: resumption of oral anticoagulant therapy after intracranial hemorrhage. *Journal of Thrombosis and Haemostasis*. 22(3): 594–603.
- Gulzar, S., Kiani, B. H., Akram, R. W., Hussein, A. M., & Alamri, A. (2025). Gender-Based Differences in Stroke Types and Risk Factors Among Young Adults : A Comparative Retrospective Analysis. *Journal of Clinical Medicine*. 14(3): 1–12.
- Guo, L., Cao, X., Chang, L., Liu, H. Neutrophil-to-lymphocyte ratio as a predictor of prognosis in patients with spontaneous intracerebral hemorrhage: a systematic review and meta-analysis. *Front Neurol*. 3(21): 1-11.
- Guo, P., & Zou, W. 2023. Neutrophil-to-lymphocyte ratio, white blood cell, and C-reactive protein predicts poor outcome and increased mortality in intracerebral hemorrhage patients: a meta-analysis. *Frontiers in Neurology*. 14(1): 1-15.
- Gurmu, M. Z., Genet, S., Gizaw, S. T., Feyisa, T. O., & Gnanasekaran, N. 2022. Neutrophil–lymphocyte ratio as an inflammatory biomarker of diabetic nephropathy among type 2 diabetes mellitus patients: A comparative cross-sectional study. *SAGE Open Medicine*. 10(9): 1-7.
- Han, D., Liu, H., Gao, Y., & Feng, J. 2021. Targeting Brain-spleen Crosstalk After Stroke: New Insights Into Stroke Pathology and Treatment. *Current Neuropharmacology*. 19(9): 1590–1605.
- Hao, Q., Chen, J., Lu, H., & Zhou, X. 2022. The ARTS of p53-dependent mitochondrial apoptosis. *Journal of Molecular Cell Biology*. 14(10).
- Hashemi, S. J., *et al.* 2023. The Association Between Peripheral Blood *Neutrophil-to-Lymphocyte Ratio* and Cirrhosis Complications in Adults with Compensated Liver Cirrhosis in Ahvaz, Iran. *Shiraz E-Medical Journal*. 24(8): 1-11.
- He W, *Et al* J, Qian Y, Fan T, Cai X, Li H, *et al.* 2025. Evidence to shared genetic correlation of ischemic stroke and intracerebral hemorrhage and cardiovascular related traits. *PLoS One*. 20(4): 1-11.
- He, J., Bian, X., Song, C., Zhang, R., Yuan, S., Yin, D., & Dou, K. 2022. High *Neutrophil to Lymphocyte Ratio* with type 2 diabetes mellitus predicts poor prognosis in patients undergoing percutaneous coronary intervention: a large-scale cohort study. *Cardiovascular Diabetology*. 21(1): 1–13.

- Hemphill, J. C., Greenberg, S. M., Anderson, C. S., Becker, K., Bendok, B. R., Cushman, M., Fung, G. L., Goldstein, J. N., MacDonald, R. L., Mitchell, P. H., Scott, P. A., Selim, M. H., & Woo, D. 2015. Guidelines for the Management of Spontaneous Intracerebral Hemorrhage: A Guideline for Healthcare Professionals from the American Heart Association/American Stroke Association. *Stroke*. 46(7): 2032–2060.
- Hermann, D. M., Zhang, M., Huang, A., & Teng, Z. 2025. Editorial: The role of inflammation in neurodegenerative and psychiatric disorders. *Frontiers in Cellular Neuroscience*. 19 (3): 1-3.
- Hernandez, E.F., Go, C.J.T., Collantes, M.E.V. 2024. Admission Neutrophil-to-Lymphocyte Ratio as a Predictive Factor in the Outcome of Acute Spontaneous Intracerebral Hemorrhage. *Acta Med Philipp*. 58(15):61-66.
- Higashi, Y. 2023. Smoking cessation and vascular endothelial function. *Hypertension Research*. 46(12): 2670–2678.
- Hu, Z., Zhu, W., Fan, C., & Jiang, Y. 2025. *Neutrophil-to-Lymphocyte Ratio* and systemic inflammation response index as biomarkers for the clinical outcomes of intracerebral hemorrhagic stroke patients: a prospective cohort study. *Frontiers in Neurology*. 16(7): 1–9.
- Huang, B., Chen, A., Sun, Y., & He, Q. 2024. The Role of Aging in Intracerebral Hemorrhage. *Brain Sciences*. 14(613): 1-20.
- Janka, T., Tornai, D., Papp, M., & Vitális, Z. 2023. The Value of *Neutrophil-to-Lymphocyte Ratio* to Identify Bacterial Infection and Predict Short-Term Mortality in Patients with Acutely Decompensated Cirrhosis. *Diagnostics*. 13(18): 1-14.
- Kemenkes. 2019. Laporan Nasional Riskesdas 2018. Badan Pengembangan Kesehatan, Jakarta.
- Kemenkes. 2023. Survei Kesehatan Indonesia (SKI) 2023 Dalam Angka. Badan Kebijakan Pembangunan Kesehatan, Jakarta.
- Khadhraoui, E., & Müller, S. J. 2025. Lack of standardization in the nomenclature of dating strokes or the desperate search for a common language. *International Journal of Emergency Medicine*. 18(1): 4–6.
- Kim, Y., Sohn, J. H., Kim, C., Park, S. Y., & Lee, S. H. 2023. The Clinical Value of *Neutrophil-to-Lymphocyte Ratio* and Platelet-to-Lymphocyte Ratio for Predicting Hematoma Expansion and Poor Outcomes in Patients with Acute Intracerebral Hemorrhage. *Journal of Clinical Medicine*. 12(8): 1-15.
- Kohn, T.P., Agrawal P., Ory J., Hare, J.M, Ramasamy, R. 2024. Rises in Hematocrit Are Associated With an Increased Risk of Major Adverse Cardiovascular Events in Men Starting Testosterone Therapy: A Retrospective Cohort Claims Database Analysis. *Journal Urol*. 211(2):285-293.
- Kumar, A., Unnithan., Das, J.M., Mehta, P. 2023. *Stroke Hemorrhagic* (online). StatPearls. <https://www.ncbi.nlm.nih.gov/books/NBK559173/#article90188.r42> . Diakses 1 Agustus 2025.

- Lai, C. C., Nelsen, B., Frias-Anaya, E., Gallego-Gutierrez, H., Orecchioni, M., Herrera, V., Ortiz, E., Sun, H., Mesarwi, O. A., Ley, K., Gongol, B., & Lopez-Ramirez, M. A. 2022. Neuroinflammation Plays a Critical Role in Cerebral Cavernous Malformation Disease. *Circulation Research*. 131(11): 909–925.
- Lengga, S., Sugiyanto., Anisyah, L., Hasana, A.R. 2023. Profil Pengobatan Stroke Pada Pasien Rawat Inap Di Rumah Sakit “ X ” Kota Malang Periode Januari - Desember 2021. *SENTRI: Jurnal Riset Ilmiah*. 2(10): 4511–4516.
- Li, L., Zhang, H., & Feng, G. long. 2022. *Neutrophil-to-Lymphocyte Ratio* predicts in-hospital mortality in intracerebral hemorrhage. *Journal of Stroke and Cerebrovascular Diseases*. 31(8): 1-8.
- Li, Y., Girard, R., Srinath, A., Cruz, D. V., Ciszewski, C., Chen, C., Lightle, R., Romanos, S., Sone, J. Y., Moore, T., DeBiasse, D., Stadnik, A., Lee, J. J., Shenkar, R., Koskimäki, J., Lopez-Ramirez, M. A., Marchuk, D. A., Ginsberg, M. H., Kahn, M. L., Awad, I. A. 2024. Transcriptomic signatures of individual *cell* types in cerebral cavernous malformation. *Cell Communication and Signaling*. 22(1): 1–16.
- Liu, J., Zhang, S., Jing, Y., & Zou, W. 2023. Neutrophil extracellular traps in intracerebral hemorrhage: implications for pathogenesis and therapeutic targets. *Metabolic Brain Disease*. 38(8): 2505–2520.
- Liu, Q., Su, J., Liang, Y., & He, X. 2025. Global burden and trend of stroke attributable to metabolic risks among young adults (20 – 39 years old) from 1990 to 2021. *Frontiers*. 12(5): 1-16.
- Liu, X., Yang, X., & Meng, Y. 2024. Global, regional, and national burden and trends of intracerebral hemorrhage among adolescents and young adults aged 15–39 years from to: a comprehensive trend analysis based on the global burden of disease study. *Frontiers*. 16(4): 1-14.
- Machado, S.R., Mathias, K., Joaquim, L., Willig de Quadros, R., Petronilho, F., & Tezza Rezin, G. 2023. From diabetic hyperglycemia to cerebrovascular Damage: A narrative review. *Brain Research*. 1821(12): 1-13.
- Maida, C. D., Norrito, R. L., Rizzica, S., Mazzola, M., Scarantino, E. R., & Tuttolomondo, A. 2024. Molecular Pathogenesis of Ischemic and Hemorrhagic Strokes: Background and Therapeutic Approaches. *International Journal of Molecular Sciences*. 25(12): 1-35.
- Marra, A., Bondesan, A., Caroli, D., Grugni, G., & Sartorio, A. 2023. The *Neutrophil to Lymphocyte Ratio* (NLR) positively correlates with the presence and severity of metabolic syndrome in obese adults, but not in obese children/adolescents. *BMC Endocrine Disorders*. 23(1): 1–11.
- Mishra, A., Tandon, R., Paliwal, V., & Jha, S. 2024. How well does peripheral blood *Neutrophil-to-Lymphocyte Ratio* predict the severity and prognosis of hemorrhagic Stroke. *Clinical Neurology and Neurosurgery*. 1(4): 239: 1-12.

- Mondal, R. N., Barman, S., Jamal, M., Rani, M., Jahan, S. M. sarwer, Hussain, M. M., Sarker, M. kumruzzaman, Rahman, M. M., Islam, M. A., & Hossain, M. Z. 2023. Short-term of mortality in acute stroke patients. *Bangladesh Journal of Medicine*. 34(2): 204–205.
- Murphy, S. J., & Werring, D. J. 2020. Stroke: causes and clinical features. *Medicine*. 48(9): 561–566.
- Nasa, P. 2022. Outcome of Hemorrhagic Stroke: Host Immune Response Can Be a Prediction Tool! *Indian Journal of Critical Care Medicine*. 26(1): 2–4.
- Nikita, J.H., & Suraj, K.B. 2020. Gender wise difference in presenting signs and symptoms of stroke: Observational study. *Indian Journal of Forensic Medicine and Toxicology*. 14(3): 335–339.
- Nurasyah, K., Hamzah, Z., & Hastuti, M. S. (2023). Gambaran Karakteristik Penderita Stroke Hemoragik Dengan Jaminan Bpjs Kesehatan Di Indonesia Periode Januari 2021-Desember 2022. *Prosiding Seminar Nasional Penelitian LPPM UMJ*. Fakultas Kedokteran dan Kesehatan, Universitas Muhammadiyah Jakarta.
- Papachristodoulou, E., Kakoullis, L., Christophi, C., Psarelis, S., Hajiroussos, V., & Parperis, K. 2023. The relationship of *Neutrophil-to-Lymphocyte Ratio* with health-related quality of life, depression, and disease activity in SLE: a cross-sectional study. *Rheumatology International*. 43(10): 1841–1848.
- Perdossi. 2016. *Panduan Praktik Klinis Neurologi*. Perhimpunan Dokter Spesialis Saraf Indonesia.
- Pruc, M., Kubica, J., Banach, M., Swieczkowski, D., Rafique, Z., Peacock, W. F., Siudak, Z., Kurek, K., Nanayakkara, P., & Szarpak, Ł. 2024. Diagnostic and prognostic performance of the *Neutrophil-to-Lymphocyte Ratio* in acute coronary syndromes: A meta-analysis of 90 studies including 45.990 patients. *Kardiologia Polska*. 82(3): 276–284.
- Qian, K., Hu, J., Wang, C., Xu, C., Chen, Y., Feng, Q., Feng, Y., Wu, Y., Yu, X., & Ji, Q. 2024. Dynamic change of *Neutrophil-to-Lymphocyte Ratio* and its predictive value of prognosis in acute ischemic stroke. *Brain and Behavior*. 14(7): 1-10.
- Qiu, Z., Huang, C., Xu, C., & Xu, Y. 2024. Predictive role of *Neutrophil-to-Lymphocyte Ratio* in metabolic syndrome: Meta-analysis of 70,937 individuals. *BMC Endocrine Disorders*. 24(1): 1-9.
- Radu, R. A., Terecoasă, E. O., Tiu, C., Ghiță, C., Nicula, A. I., Marinescu, A. N., & Popescu, B. O. 2021. *Neutrophil-to-Lymphocyte Ratio* as an independent predictor of in-hospital mortality in patients with acute intracerebral hemorrhage. *Medicina (Lithuania)*. 57(6): 1–10.
- Rajahsekar, D., Liang, J.W. 2023. *Intracerebral Hemorrhage* (online). StatPearls. <https://www.ncbi.nlm.nih.gov/books/NBK430685/?term=> . Diakses 7 Agustus 2025.

- Rendon, L. F., Malta, S., Leung, J., Badenes, R., Nozari, A., Bilotta, F. 2021 Cocaine and Ischemic or Hemorrhagic Stroke: A Systematic Review and Meta-Analysis of Clinical Evidence. In *Stroke*. 52(7): E364–E467.
- Rexrode, K. M., Madsen, T. E., Yu, A. Y. X., Carcel, C., Lichtman, J. H., & Miller, E. C. (2022). The Impact of Sex and Gender on Stroke. 18(2): 512–528.
- Rinald, J. H., & Troy, C. M. 2025. A review of *cell* death pathways in hemorrhagic stroke. *Frontiers in Cell and Developmental Biology*. 13(4): 1–7.
- Sabih, A., Tadi, P., & Kumar, A. 2023. *Stroke Prevention* (online). StatPearls. <https://www.ncbi.nlm.nih.gov/books/NBK470234/>. Diakses 26 Juli 2025.
- Saifullah, Y.Y., Rachman, M.E., Ramlan., Limoa, L.T., Hamado, N. 2024. Hubungan Hipertensi dengan Kejadian Stroke Iskemik dan Stroke Hemoragik. *Fakumi Medical Journal*. 4(10) : 1-14.
- Sakamuri, S. S. V. P., Sure, V. N., Kolli, L., Evans, W. R., Sperling, J. A., Bix, G. J., Wang, X., Atochin, D. N., Murfee, W. L., Mostany, R., & Katakam, P. V. G. 2022. Aging related impairment of brain microvascular bioenergetics involves oxidative phosphorylation and glycolytic pathways. *Journal of Cerebral Blood Flow and Metabolism*. 42(8): 1410–1424.
- Santos, J. D., Neto, J.T.O., & Tostes, R. C. 2023. The cardiovascular subtleties of testosterone on gender-affirming hormone therapy. *American Journal of Physiology*. 5(5): H30–H53.
- Saputri, L.O., Harahap, H.S., Rivarti, A.W., Nurdiyahati. 2023. Pencegahan Stroke pada Hipertensi Berdasarkan Mekanisme Patogenesis. *Jurnal Kedokteran Umum*. 12(2):171-179.
- Sarejloo, S., Kheradjoo, H., Haghi, S. E., Hosseini, S., Gargari, M. K., Azarhomayoun, A., Khanzadeh, S., & Sadeghvand, S. (2022). *Neutrophil-to-Lymphocyte Ratio* and Early Neurological Deterioration in Stroke Patients: A Systematic Review and Meta-Analysis. *BioMed Research International*. 2022(7): 1-8.
- Sentosa, L.O.J. J. 2021. *Status Nutrisi Terhadap Mortalitas Pada Pasien Stroke Relationship Between Neutrophil-Lymphocyte Ratio (Nlr), Platelet-Lymphocyte Ratio (Plr) and Nutritional Status on Mortality in Stroke Patients*. Tesis. Universitas Hasanuddin, Makassar.
- Sever, A. I. M., Reid Alderson, T., Rennella, E., Aramini, J. M., Liu, Z. H., Harkness, R. W., & Kay, L. E. 2023. Activation of caspase-9 on the apoptosome as studied by methyl-TROSY NMR. *Proceedings of the National Academy of Sciences of the United States of America*. 120(51): 1-17.
- Sharath, M., Siddegowda, R. B., Lonimath, A., & Cheluvaiah, J. D. 2022. An Elevated *Neutrophil-to-Lymphocyte Ratio* Predicts In-Hospital Mortality in Stroke Patients: A Prospective Cohort Study. *Cureus*. 14(11): 1–8.
- Sherina, N., Ramdan, D., & Hidayat, N. 2022. Pendampingan Asuhan Keperawatan Medikal Bedah pada Pasien dengan Gangguan Sistem Persyarafan (Stroke

- Hemoragik) di Ruang Flamboyan RSUD Banjar. *Kolaborasi Jurnal Pengabdian Masyarakat*. 2(2): 175–197.
- Shi, M., Li, X. F., Zhang, T. B., Tang, Q. W., Peng, M., & Zhao, W. Y. 2022. Prognostic Role of the *Neutrophil-to-Lymphocyte Ratio* in Intracerebral Hemorrhage: A Systematic Review and Meta-Analysis. *Frontiers in Neuroscience*. 16(3): 1-10.
- Shrestha, G., Gurung, A., & Sedhain, G. 2024. Prediction of the outcome of intracerebral hemorrhage by blood neutrophil to lymphocyte ratio: a prospective observational study. *Annals of Medicine & Surgery*. 86(4): 6472–6476.
- Simats, A., & Liesz, A. 2022. Systemic inflammation after stroke: implications for post-stroke comorbidities. *EMBO Molecular Medicine*. 14(9): 1-18.
- Sterenstein A, Garg R. 2024. The impact of sex on epidemiology, management, and outcome of spontaneous intracerebral hemorrhage (sICH). *J Stroke Cerebrovascular*. 33(7):107755.
- Tang, J., Yue, J., Tao, Y., Zhao, G., Yi, X., Zhang, M., Huang, N., & Cheng, Y. 2024. Neutrophil Extracellular Traps Induce Brain Edema Around Intracerebral Hematoma via ERK-Mediated Regulation of MMP9 and AQP4. *Translational Stroke Research*. 9(12): 1-13.
- Tiorisman, N., Baab, J., Asriyani, S., Zainuddin, A.A. 2023. Korelasi Neutrophil To Lymphocyte Ratio Dan Volume Perdarahan Menggunakan Computed Tomography (CT-Scan) Kepala Pada Pasien Stroke Intracerebral Hemorrhage Akut. *Jurnal Medika Udayana*. 12(7): 1-18.
- Tsao, C. W., Aday, A. W., Almarzooq, Z. I., Anderson, C. A. M., Arora, P., Avery, C. L., Baker-Smith, C. M., Beaton, A. Z., Boehme, A. K., Buxton, A. E., Commodore-Mensah, Y., Elkind, M. S. V., Evenson, K. R., Eze-Nliam, C., Fugar, S., Generoso, G., Heard, D. G., Hiremath, S., Ho, J. E., Martin, S. S. (2023). Heart Disease and Stroke Statistics - 2023 Update: A Report from the American Heart Association. *Circulation*. 147(8): E93–E621.
- Tu, T., Peng, Z., Ren, J., & Zhang, H. 2022. Cerebral Cavernous Malformation: Immune and Inflammatory Perspectives. *Frontiers in Immunology*, 13.
- Tuo, Q. zhang, Zhang, S. ting, & Lei, P. 2022. Mechanisms of neuronal cell death in ischemic stroke and their therapeutic implications. *Medicinal Research Reviews*. 42(1): 259–305.
- Ulloque, B. J. R., Ivan, I.S.T.W., Al, K.C.A., Alarcón, B.E.A., Benites, Z.V. A., Maguiña, J. L., & Hernandez, A. V. 2021. Prognostic value of *Neutrophil-to-Lymphocyte Ratio* in COVID-19 patients: A systematic review and meta-analysis. *International Journal of Clinical Practice*. 75(11): 1-12.
- Ursini, F., & Maiorino, M. 2020. Lipid peroxidation and ferroptosis: The role of GSH and GPx4. *Free Radical Biology and Medicine*. 152(1): 175–185.
- Vu, H.N., Ly-Phuc, D., Duong-Minh, N., Tran-Ngoc, N., & Nguyen-Dang, K. 2024. Predictive value of *Neutrophil-to-Lymphocyte Ratio* for adverse

- outcomes in hospitalized patients with acute exacerbation of chronic obstructive pulmonary disease: A retrospective study. *Medicine*. 103(38): 1-7.
- Wang, C., Bai, J., He, Q., Jiao, Y., Zhang, W., Huo, R., Wang, J., Xu, H., Zhao, S., Wu, Z., Sun, Y., Yu, Q., Tang, J., Zeng, X., Yang, W., & Cao, Y. 2024. Therapy management and outcome of acute hydrocephalus secondary to intraventricular hemorrhage in adults. *Chinese Neurosurgical Journal*. 10(1): 1-10.
- Wang, S., Zou, X., Wu, L., Zhou, H., Xiao, L., Yao, T., Zhang, Y., Ma, Junyi., Zeng, Yi., & Zhang, L. Epidemiology of intracerebral hemorrhage: A systematic review and meta-analysis. *Frontiers*. 13(1): 1-12.
- Widyasari, N. F., Helda, H., & Febriawan, R. 2022. The Association Of Neutrophil Lymphocyte Ratio And In-Hospital Mortality In Acute Coronary Syndrome Patients: Meta Analysis. *Eduvest - Journal of Universal Studies*. 2(9): 1847-1860.
- World Health Organization. 2023. *The Underlying Pathology of Ischaemic Heart Attacks and Stroke. Global Cardiovascular Atlas on Disease Prevention and Control*. World Health Organization, Geneva.
- Xu, Y., Chen, Y., Mai, X., & Zhang, M. 2025. Prognostic value of *Neutrophil-to-Lymphocyte Ratio* for the clinical outcomes of chronic kidney diseases: an update systematic review and meta-analysis. *BMC Nephrology*. 26(1): 1-16.
- Yamanie, N., Felistia, Y., Susanto, N. H., Lamuri, A., Sjaaf, A. C., Miftahussurur, M., & Santoso, A. 2024. Prognostic model of in-hospital ischemic stroke mortality based on an electronic health record cohort in Indonesia. *PLoS ONE*. 19(6): 1-18.
- Yan, H. fa, Zou, T., Tuo, Q. zhang, Xu, S., Li, H., Belaidi, A. A., & Lei, P. 2021. Ferroptosis: mechanisms and links with diseases. *Signal Transduction and Targeted Therapy*. 6(1): 1-16.
- Yeap, B.B., & Anawalt, B. D. 2025. Endogenous Testosterone, Testosterone Treatment. *The Journal of Clinical Endocrinology & Metabolism*. 11(0): 1-13.
- Yu, Z., Jiang, N., Su, W., & Zhuo, Y. 2021. Necroptosis: A Novel Pathway in Neuroinflammation. *Frontiers in Pharmacology*. 12 (7): 1-13.
- Zhang, J., Liu, C., Hu, Y., Yang, A., Zhang, Y., & Hong, Y. 2023. The trend of *Neutrophil-to-Lymphocyte Ratio* and platelet-to-lymphocyte ratio in spontaneous intracerebral hemorrhage and the predictive value of short-term postoperative prognosis in patients. *Frontiers in Neurology*. 14(5): 1-10.
- Zhang, J., Sun, J., Xu, Y., Jing, H., Zhang, L., & Chen, W. 2025. Different change patterns and sex difference for stroke and its subtypes mortality attributable to tobacco in China from 1990 to 2021. *Springer Nature*. 18(6): 1-13.

- Zhang, Z., Deng, J., Sun, W., & Wang, Z. 2025. Cerebral Cavernous Malformation: From Genetics to Pharmacotherapy. *Brain and Behavior*. 15(1): 1-15.
- Zhao, Y., Xie, Y., Li, S., & Hu, M. 2022. The predictive value of *Neutrophil to Lymphocyte Ratio* on 30-day outcomes in spontaneous intracerebral hemorrhage patients after surgical treatment: A retrospective analysis of 128 patients. *Frontiers in Neurology*. 13(8): 1-8.
- Zhong, L., Chen, W., Wang, T., Zeng, Q., Lai, L., Lai, J., Lin, J., & Tang, S. (2022). Alcohol and Health Outcomes: An Umbrella Review of Meta-Analyses Base on Prospective Cohort Studies. *Frontiers in Public Health*. 10(5): 1-12.
- Zhuang, D., Sheng, J., Peng, G., Li, T., Cai, S., Din, F., Li, L., Huang, M., Tian, F., Li, K., Wang, S., & Chen, W. 2021. *Neutrophil to Lymphocyte Ratio* predicts early growth of traumatic intracerebral haemorrhage. *Annals of Clinical and Translational Neurology*. 8(8): 1601–1609.

