UNIVERSITAS
GADJAH MADA
**Korelasi Antara Persentase Volume Tumor Terhadap Volume Keseluruhan Hati dengan Kadar Hemoglobin
Pada Pasien Dengan Karsinoma Hepatoseluler Berdasarkan Pemeriksaan Computed Tomography**
Rayhan Mazayafissilmi Bale, Prof. dr. Arif Faisal, Sp. Rad., Subsp. NKL (K), DHSM; dr. Bambang Purwanto Utomo, S
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Alghamdi, M. (2023). Red Blood Cell Distribution Width: A Potential Inexpensive Marker for Disease Activity in Patients with Rheumatic Diseases; Scoping Review. *Open Access Rheumatology: Research and Reviews*, *Volume 15*, 173–180. https://doi.org/10.2147/OARRR.S424168

Amarnath, C., Patel, Hemant., Desai, Shrinivas., Nanivadekar, Avinash., *et al*. (2023). *Comprehensive Textbook of Clinical Radiology: Abdominal Imaging, Volume 4 - eBook edited by Hemant Patel, Shrinivas Desai, Avinash Nanivadekar, J Devimeenal, Karthik Ganesan, Kushaljit Singh Sodhi ; edited-in-chief, C Amarnath*. Elsevier India.

American College of Radiology. (2018). *LI-RADS® CT/MRI v2018 Core*.

Amin, N., Anwar, J., Sulaiman, A., Naumova, N. N., dan Anwar, N. (2025). Hepatocellular Carcinoma: A Comprehensive Review. *Diseases*, *13*(7), 207. https://doi.org/10.3390/diseases13070207

Asafo-Agyei, K. O., dan Samant, H. (2025). *Hepatocellular Carcinoma*.

Baker Rogers, J., Syed, K., dan Minteer, J. F. (2026). *Cachexia*.

Boyle, D. A. (2017). Hepatocellular carcinoma: Implications for Asia-Pacific Oncology Nurses. *Asia-Pacific Journal of Oncology Nursing*, *4*(2), 98–103. https://doi.org/10.4103/2347-5625.204497

Bray, F., Laversanne, M., Sung, H., Ferlay, J., Siegel, R. L., Soerjomataram, I., *et al*. (2024). Global cancer statistics 2022: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA: A Cancer Journal for Clinicians*, *74*(3), 229–263. https://doi.org/10.3322/caac.21834

Calderon-Martinez, E., Landazuri-Navas, S., Vilchez, E., Cantu-Hernandez, R., Mosquera-Moscoso, J., Encalada, S., *et al* (2023). Prognostic Scores and Survival Rates by Etiology of Hepatocellular Carcinoma: A Review. *Journal of Clinical Medicine Research*, *15*(4), 200–207. https://doi.org/10.14740/jocmr4902

Cassinotto, C., Nogue, E., Durand, Q., Panaro, F., Assenat, E., Dohan, A., *et al*. (2023). Life expectancy of patients with hepatocellular carcinoma according to the upfront treatment: A nationwide analysis. *Diagnostic and Interventional Imaging*, *104*(4), 192–199. https://doi.org/10.1016/j.diii.2023.01.00

UNIVERSITAS
GADJAH MADA
**Korelasi Antara Persentase Volume Tumor Terhadap Volume Keseluruhan Hati dengan Kadar Hemoglobin
Pada Pasien Dengan Karsinoma Hepatoseluler Berdasarkan Pemeriksaan Computed Tomography**
Rayhan Mazayafissilmi Bale, Prof. dr. Arif Faisal, Sp. Rad., Subsp. NKL (K), DHSM; dr. Bambang Purwanto Utomo, S
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Dahlan, M. S. (2010). *Besar Sampel Dan Cara Pengambilan Sampel Dalam Penelitian Kedokteran Kesehatan*. Salemba Medika.

El Brihi, J., dan Pathak, S. (2025). *Normal and Abnormal Complete Blood Count With Differential*.

Elkhalifa, D., Lub-de Hooge, M. N., dan Jansman, F. G. (2025). Mapping the epidemiology of cancer-related anemia: A systematic scoping review of global prevalence and incidence. *Seminars in Oncology*, *52*(6), 152426. https://doi.org/10.1016/j.seminoncol.2025.152426

Elzein, H. O., Hassan, A. A., dan Adam, I. (2025). The prevalence of anemia and its association with body mass index and obesity in adults: a community-based cross-sectional study. *Transactions of The Royal Society of Tropical Medicine and Hygiene*, *119*(8), 865–871. https://doi.org/10.1093/trstmh/traf031

Gabbia, D., dan De Martin, S. (2024). Insights into Hepatocellular Carcinoma: From Pathophysiology to Novel Therapies. *International Journal of Molecular Sciences*, *25*(8), 4188. https://doi.org/10.3390/ijms25084188

Galle, P. R., Forner, A., Llovet, J. M., Mazzaferro, V., Piscaglia, F., Raoul, J.-L., *et al*. (2018). EASL Clinical Practice Guidelines: Management of hepatocellular carcinoma. *Journal of Hepatology*, *69*(1), 182–236. https://doi.org/10.1016/j.jhep.2018.03.019

Garcia-Casal, M. N., Dary, O., Jefferds, M. E., dan Pasricha, S. (2023). Diagnosing anemia: Challenges selecting methods, addressing underlying causes, and implementing actions at the public health level. *Annals of the New York Academy of Sciences*, *1524*(1), 37–50. https://doi.org/10.1111/nyas.14996

Gaspar, B. L., Sharma, P., dan Das, R. (2015). Anemia in malignancies: Pathogenetic and diagnostic considerations. *Hematology*, *20*(1), 18–25. https://doi.org/10.1179/1607845414Y.0000000161

Gatea, A. K., Al-Jabory, M. A., Shamki, B. A., dan Al-Sabary, A. H. (2025). Assessment of red cell distribution width in patients with hematological malignancy. *Iraqi Journal of Hematology*, *14*(1), 32–36. https://doi.org/10.4103/ijh.ijh_2_25

Hawash, N., Gameaa, R., Elwy, D., dan Mansour, S. (2024). Red Blood Cell Distribution Width as a Diagnostic Marker of Hepatocellular Carcinoma

UNIVERSITAS
GADJAH MADA
**Korelasi Antara Persentase Volume Tumor Terhadap Volume Keseluruhan Hati dengan Kadar Hemoglobin
Pada Pasien Dengan Karsinoma Hepatoseluler Berdasarkan Pemeriksaan Computed Tomography**
Rayhan Mazayafissilmi Bale, Prof. dr. Arif Faisal, Sp. Rad., Subsp. NKL (K), DHSM; dr. Bambang Purwanto Utomo, S
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

in Cirrhotic Patients. *The Open Biomarkers Journal*, *14*(1). https://doi.org/10.2174/0118753183275959231129064650

Hodler, J., Kubik-Huch, R. A., Roos, J. E., dan Schulthess, G. K. von. (2023). *Diseases of the abdomen and pelvis 2023-2026: diagnostic imaging*. Springer.

Joachim, J. H., dan Mehta, K. J. (2022). Hepcidin in hepatocellular carcinoma. *British Journal of Cancer*, *127*(2), 185–192. https://doi.org/10.1038/s41416-022-01753-2

Kamandi, N., Soleimanian, A., Allahyari, A., dan Kamandi, M. (2023). Prognostic Role of Red Cell Distribution Width (RDW) in Patients with Diffuse Large B-cell Lymphoma. *Asian Pacific Journal of Cancer Prevention*, *24*(8), 2667–2672. https://doi.org/10.31557/APJCP.2023.24.8.2667

Karaoğullarından, Ü., Üsküdar, O., Odabaş, E., Ak, N., dan Kuran, S. (2023). Hepatocellular Carcinoma in Cirrhotic Versus Noncirrhotic Livers: Clinicomorphologic Findings and Prognostic Factors. *Turkish Journal of Gastroenterology*, *34*(3), 262–269. https://doi.org/10.5152/tjg.2023.21791

Kelkar, A. J., J. Akshara, P. Vaishali, dan P. Harshal. (2025). Anaemia in Chronic Liver Disease: Insights into Prevalence and Prognostic Significance. *Journal of Contemporary Clinical Practice*, *11*(9), 826–837.

Kementrian Kesehatan RI. (2024). *Rencana Kanker Nasional 2024-2034: Strategi Indonesia dalam Upaya Melawan Kanker*.

Kim, D., dan Kim, J.-S. (2024). Current perspectives on radiotherapy in hepatocellular carcinoma management: a comprehensive review. *Journal of Liver Cancer*, *24*(1), 33–46. https://doi.org/10.17998/jlc.2024.02.26

Koma, Y., Onishi, A., Matsuoka, H., Oda, N., Yokota, N., Matsumoto, Y., *et al*. (2013). Increased Red Blood Cell Distribution Width Associates with Cancer Stage and Prognosis in Patients with Lung Cancer. *PLoS ONE*, *8*(11), e80240. https://doi.org/10.1371/journal.pone.0080240

Kotsifa, E., Vergadis, C., Vailas, M., Machairas, N., Kykalos, S., Damaskos, C., *et al*. (2022). Transarterial Chemoembolization for Hepatocellular Carcinoma: Why, When, How? *Journal of Personalized Medicine*, *12*(3), 436. https://doi.org/10.3390/jpm12030436

UNIVERSITAS
GADJAH MADA
**Korelasi Antara Persentase Volume Tumor Terhadap Volume Keseluruhan Hati dengan Kadar Hemoglobin
Pada Pasien Dengan Karsinoma Hepatoseluler Berdasarkan Pemeriksaan Computed Tomography**
Rayhan Mazayafissilmi Bale, Prof. dr. Arif Faisal, Sp. Rad., Subsp. NKL (K), DHSM; dr. Bambang Purwanto Utomo, S
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Kouroumalis, E., Tsomidis, I., dan Voumvouraki, A. (2023). Pathogenesis of Hepatocellular Carcinoma: The Interplay of Apoptosis and Autophagy. *Biomedicines*, *11*(4), 1166. https://doi.org/10.3390/biomedicines11041166

Krupa, K., Fudalej, M., Cencelewicz-Lesikow, A., Badowska-Kozakiewicz, A., Czerw, A., dan Deptała, A. (2024). Current Treatment Methods in Hepatocellular Carcinoma. *Cancers*, *16*(23), 4059. https://doi.org/10.3390/cancers16234059

Lee, Y., Hsia, C., Hsu, C., Huang, Y., Lin, H., dan Huo, T. (2013). Total Tumor Volume Is a Better Marker of Tumor Burden in Hepatocellular Carcinoma Defined by the Milan Criteria. *World Journal of Surgery*, *37*(6), 1348–1355. https://doi.org/10.1007/s00268-013-1978-9

Lian, D., Wang, W., Liu, L., Wang, J., Rao, S., dan Zhou, J. (2022a). CT volumetry helps predict prognosis of large hepatocellular carcinoma after resection. *Clinical Radiology*, *77*(8), e599–e605. https://doi.org/10.1016/j.crad.2022.03.018

Lian, D., Wang, W., Liu, L., Wang, J., Rao, S., dan Zhou, J. (2022b). CT volumetry helps predict prognosis of large hepatocellular carcinoma after resection. *Clinical Radiology*, *77*(8), e599–e605. https://doi.org/10.1016/j.crad.2022.03.018

Mauro, E., de Castro, T., Zeitlhoefler, M., Sung, M. W., Villanueva, A., Mazzaferro, V., *et al*. (2025). Hepatocellular carcinoma: Epidemiology, diagnosis and treatment. *JHEP Reports*, *7*(12), 101571. https://doi.org/10.1016/j.jhepr.2025.101571

Meischl, T., Balcar, L., Park, Y.-R., Bucher, L., Meier, P., Suhr, Y., *et al* (2024). Anaemia is independently associated with mortality in patients with hepatocellular carcinoma. *ESMO Open*, *9*(6), 103593. https://doi.org/10.1016/j.esmoop.2024.103593

Parra, N. S., Ross, H. M., Khan, A., Wu, M., Goldberg, R., Shah, L., *et al* (2023). Advancements in the Diagnosis of Hepatocellular Carcinoma. *International Journal of Translational Medicine*, *3*(1), 51–65. https://doi.org/10.3390/ijtm3010005

Pupulim, L. F., Ronot, M., Paradis, V., Chemouny, S., dan Vilgrain, V. (2018a). Volumetric measurement of hepatic tumors: Accuracy of manual contouring using CT with volumetric pathology as the reference method. *Diagnostic and Interventional Imaging*, *99*(2), 83–89. https://doi.org/10.1016/j.diii.2017.11.002

UNIVERSITAS
GADJAH MADA
**Korelasi Antara Persentase Volume Tumor Terhadap Volume Keseluruhan Hati dengan Kadar Hemoglobin
Pada Pasien Dengan Karsinoma Hepatoseluler Berdasarkan Pemeriksaan Computed Tomography**
Rayhan Mazayafissilmi Bale, Prof. dr. Arif Faisal, Sp. Rad., Subsp. NKL (K), DHSM; dr. Bambang Purwanto Utomo, S
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Scheiner, B., Semmler, G., Maurer, F., Schwabl, P., Bucsics, T. A., Paternostro, R., *et al*. (2020). Prevalence of and risk factors for anaemia in patients with advanced chronic liver disease. *Liver International*, *40*(1), 194–204. https://doi.org/10.1111/liv.14229

Shapoo, N. (2024). Red Cell Distribution Width as a Biomarker in Hematological Disorders: Insights and Implications. *American Journal of Biomedical Science dan Research*, *23*(6), 728–731. https://doi.org/10.34297/AJBSR.2024.23.003138

Suprapti, E., Hadju, V., Ibrahim, E., Indriasari, R., Erika, K. A., dan Balqis, B. (2025). Anemia: Etiology, Pathophysiology, Impact, and Prevention: A Review. *Iranian Journal of Public Health*. https://doi.org/10.18502/ijph.v54i3.18244

Suresh, D., Srinivas, A. N., dan Kumar, D. P. (2020). Etiology of Hepatocellular Carcinoma: Special Focus on Fatty Liver Disease. *Frontiers in Oncology*, *10*. https://doi.org/10.3389/fonc.2020.601710

Tan, M., Liu, B., You, R., Huang, Q., Lin, L., Cai, D., *et al* (2023). Red Blood Cell Distribution Width as a Potential Valuable Survival Predictor in Hepatitis B Virus-related Hepatocellular Carcinoma. *International Journal of Medical Sciences*, *20*(7), 976–984. https://doi.org/10.7150/ijms.79619

Tang, J.-H., Yan, F.-H., Zhou, M.-L., Xu, P.-J., Zhou, J., dan Fan, J. (2013). Evaluation of Computer-Assisted Quantitative Volumetric Analysis for Pre-Operative Resectability Assessment of Huge Hepatocellular Carcinoma. *Asian Pacific Journal of Cancer Prevention*, *14*(5), 3045–3050. https://doi.org/10.7314/APJCP.2013.14.5.3045

Turner, J., Parsi, M., dan Badireddy, M. (2025). *Anemia*.

Vogel, A., Chan, S. L., Dawson, L. A., Kelley, R. K., Llovet, J. M., Meyer, T., *et al* (2025). Hepatocellular carcinoma: ESMO Clinical Practice Guideline for diagnosis, treatment and follow-up. *Annals of Oncology*, *36*(5), 491–506. https://doi.org/10.1016/j.annonc.2025.02.006

Wang, P.-F., Song, S.-Y., Guo, H., Wang, T.-J., Liu, N., dan Yan, C.-X. (2019). Prognostic role of pretreatment red blood cell distribution width in patients with cancer: A meta-analysis of 49 studies. *Journal of Cancer*, *10*(18), 4305–4317. https://doi.org/10.7150/jca.31598

WHO. (2024). *Guideline on haemoglobin cutoffs to define anaemia in individuals and populations*. World Health Organization.

UNIVERSITAS
GADJAH MADA
**Korelasi Antara Persentase Volume Tumor Terhadap Volume Keseluruhan Hati dengan Kadar Hemoglobin
Pada Pasien Dengan Karsinoma Hepatoseluler Berdasarkan Pemeriksaan Computed Tomography**
Rayhan Mazayafissilmi Bale, Prof. dr. Arif Faisal, Sp. Rad., Subsp. NKL (K), DHSM; dr. Bambang Purwanto Utomo, S
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Yuan, T., Jia, Q., Zhu, B., Chen, D., dan Long, H. (2023). Synergistic immunotherapy targeting cancer-associated anemia: prospects of a combination strategy. *Cell Communication and Signaling*, *21*(1), 117. https://doi.org/10.1186/s12964-023-01145-w