DAFTAR PUSTAKA

Abd El-Hack, M. E., Alqhtani, A. H., Swelum, A. A., El-Saadony, M. T., Salem, H. M., Babalghith, A. O., Taha, A. E., Ahmed, O., Abdo, M., & El-Tarabily, K.

A. (2022). Pharmacological, nutritional and antimicrobial uses of Moringa oleifera Lam. leaves in poultry nutrition: an updated knowledge. Poultry science, 101(9), 102031. https://doi.org/10.1016/j.psj.2022.102031

Adji, A. S., Atika, N., Kusbijantoro, Y. B., Billah, A., Putri, A., & Handajani, F. (2022). A review of leaves and seeds moringa oleifera extract: the potential moringa oleifera as antibacterial, anti-inflammatory, antidiarrhoeal, and antiulcer approaches to bacterial gastroenteritis. Open Access Macedonian Journal of Medical Sciences, 10(F), 305-313. https://doi.org/10.3889/oamjms.2022.8894

Agung Saprasetya Dwi, L., Notopuro, H., & Arifa Mustika, A. (2022). Ameliorative Effects of Moringa (Moringa Oleifera Lam.) Leaves Extract on Lead-Induced Oxidative Stress, Hepcidin and δ-Alad Levels in Rat's Blood. Pharmacognosy Journal, 14(6), 856-861. https://phcogj.com/sites/default/files/PharmacognJ-14-6-856

Agustina, W., Harahap, H. P., Oktafirnanda, Y., & Sembiring, E. R. B. (2023). Effectiveness of beet jelly on hemoglobin levels of pregnant women. Journal of Pharmaceutical and Sciences, 234-239. https://www.journal-jps.com

Aini, Q., Samingan, S., & Sabri, M. (2023). Ethanolic Extract Of Moringa OleiferaLeaves Improves Glucose Tolerance, Glycoggen Leves, and Liver Health inAlloxan-Induced Diabetic Rats. Elkawin: Journal of Islamic Science and Technology, 9(2), 246-259. https://doi.org/10.22373/ekw.v9i2.17585

Alemu, T., Yakob, T., & Solomon, T. (2023). Dietary Diversity and Haemoglobin Level Associated With Under Nutrition Among Pregnant Women at Sidama Hawassa, Ethiopia: Facility Based Cross-Sectional Study. Nutrition and metabolic insights, 16, 11786388231165136. https://doi.org/10.1177/11786388231165136

Anisa, R. (2023). Comprehensive Midwifery Care for Mrs" M" with Anemia at theCaile Community Health Center, Bulukumba Regency. Jurnal Midwifery, 5(2), 112-120. https://doi.org/10.24252/jmw.v5i2.35585

Ardiani, T., & Azmi, R. N. (2021). Identifikasi Kejadian Hepatotoksik pada PasienTuberkulosis dengan Penggunaan Obat Anti Tuberkulosis di Rumah Sakit Umum Daerah Abdul Wahab Sjahranie. Borneo Studies and Research, 3(1),978-985. Vol. 3 No. 1 (2021): Borneo Student Research

Ardilla, D., Rangkuti, K., Thamrin, M., Siregar, R. S., & Kurniawan, H. A. (2023). Pembuatan Tepung Daun Kelor Sebagai Pengawet Alami Produk Olahan Daging Upaya Mendukung Pola Hidup Sehat. JMM (Jurnal Masyarakat Mandiri), 7(6), 5414-5423. https://doi.org/10.31764/jmm.v7i6.17711

Arienda, D. S. R., Setyawati, I., & Utami, K. (2023). Identifikasi Kandungan Zat Besi Dan Vitamin C Pada Daun Kelor (Moringa Oleifera) Sebagai Penanganan Anemia Pada Ibu Hamil. Professional Health Journal, 5(1), 131-138 https://www.ojsstikesbanyuwangi.com/index.php/PHJ

Arora, S., & Arora, S. (2021). Nutritional significance and therapeutic potential of Moringa oleifera: The wonder plant. Journal of food biochemistry, 45(10), e13933. https://doi.org/10.1111/jfbc.13933

Asmanah, C., Reski, S., & Hidayat, A. (2023). The Relationship between Protein Intake and Hemoglobin Levels in Women of Reproductive Age at Inche Abdoel Moeis Hospital Samarinda. Formosa Journal of Science and Technology, 2(8), 1993-2004. https://doi.org/10.55927/fjst.v2i8.5528

Atika, Z., Layli, A. N., & Winiastri, D. (2021). Pengaruh daun kelor (Moringa Oleifera Lam) terhadap kadar Hb ibu hamil di PMB Zummatul Atika. Media Bina Ilmiah, 15(8), 4971-4978. http://ejurnal.binawakya.or.id/index.php/MBI

Aulia, D. G., Flora, R., & Fajar, N. A. (2023). DETERMINAN KADAR ASAM FOLAT SERUM PADA IBU HAMIL DI KABUPATEN SELUMA. Jurnal Endurance, 8(1), 150-156. https://doi.org/10.22216/jen.v8i1.1781

Aulia Mutiara Hikmah, A., Dodik Luthfianto, D., & Dkk, D. (2022). BUKU AJAR BIOKIMIA; CV. Feniks Muda Sejahtera.

Ashraf, F., Nafees Uddin, M. M., Mustafa, M. S., Mughal, Z. U. N., & Atif Aleem,

S. (2024). Prevalence and factors influencing anemia in women of reproductive age visiting a tertiary care hospital (Jinnah Postgraduate Medical Center) in Karachi: A cross-sectional study. Women's Health, 20, 17455057241227364. https://doi.org/10.1177/17455057241227364

Azizah, N., Astuti, D., & Indanah, I. (2023). Pemberian Zat Besi Pada Ibu Hamil Dan Hasil Luaran Bayi: Literature Review. Indonesia Jurnal Kebidanan, 7(1), 1-9. https://doi.org/10.26751/ijb.v7i1.2043

Balkis, C. P., Handini, M. C., Sinaga, T. R., Tarigan, F. L., & Wandra, T. (2023). PENGARUH PEMBERIAN EKSTRAK DAUN KELOR (MORINGA OLEIFERA) DAN KEBIASAAN SARAPAN PAGI TERHADAP PENINGKATAN KADAR HB PADA REMAJA PUTRI. Jurnal Kesehatan

Tambusai, 4(2), 1431-1452. https://doi.org/10.31004/jkt.v4i2.15814

Cakir, M. U., Yavuz-Aksu, B., & Aksu, U. (2022). Hypervolemia suppresses dilutional anaemic injury in a rat model of haemodilution. Journal of

translational internal medicine, 11(4), 393–400. https://doi.org/10.2478/jtim-2022-0045

Camilleri, E., & Blundell, R. (2024). A comprehensive review of the phytochemicals, health benefits, pharmacological safety and medicinal prospects of Moringa oleifera. Heliyon. https://doi.org/10.1016/j.heliyon.2024.e27807

Carolin, B. T., & Novelia, S. (2021). Penyuluhan dan Pemeriksaan Kadar Hemoglobin Sebagai Upaya Deteksi Dini Anemia Pada Ibu Hamil. Journal of Community Engagement in Health, 4(1), 245-248. http://jceh.orghttps://doi.org/10.30994/jceh.v4i1.159

Claudia, F. S., Ciselia, D., & Afrika, E. (2024). Hubungan Pengetahuan Tentang Anemia, Status Gizi, dan Sosial Ekonomi Pada Kejadian Anemia Pada IbuHamil di Wilayah Kerja Puskesmas Gandus Palembang Tahun 2023. JURNAL ILMIAH OBSGIN: Jurnal Ilmiah Ilmu Kebidanan & Kandungan P-ISSN: 1979-3340 e-ISSN: 2685-7987, 16(1), 1-9. https://doi.org/10.36089/job.v16i1.1538

Che, X. Y., & Liu, J. F. (2022). Zhonghua yu fang yi xue za zhi [Chinese journal of preventive medicine], 56(3), 377–385. https://doi.org/10.3760/cma.j.cn112150-20211215-01161

Cochrane, K. M., Mayer, C., Devlin, A. M., Elango, R., Hutcheon, J. A., & Karakochuk, C. D. (2020). Is natural (6S)-5-methyltetrahydrofolic acid as effective as synthetic folic acid in increasing serum and red blood cell folateconcentrations during pregnancy? A proof-of-concept pilot study. Trials, 21(1), 380. https://doi.org/10.1186/s13063-020-04320-3

Danefi, T., & Apriasih, H. (2020). Effectiveness of Consumption Iron Tablets with Orange Juice to Increase Haemoglobin Levels in Pregnancy. JURNAL KEBIDANAN, 10(1). https://doi.org/10.31983/jkb.v10i1.5427

Darmawati, Darmawati, Tongku N. Siregar, Hajjul Kamil, and Teuku Tahlil (2020) “Barriers to Health Workers in Iron Deficiency Anemia Prevention among Indonesian Pregnant Women ”Anemia 2020 : 8597174 . doi: 10.1155/2020/8597174. https://doi.org/10.1155/2020/8597174

Delfina, R., Helmiyetti, H., & Maryani, D. (2023). Effect of Moringa Leaves and Combination of Fe Tablets on the Increase of Hb in Pregnant Women withAnemia. Global Medical and Health Communication, 11(2), 121-127. https://doi.org/10.29313/gmhc.v11i2.10836

Desi Wildayani, D., Widya Lestari, W., & Winda Listia Ningsih, W. (2023). Dismenore: Asupan Zat Besi, Kalsium Dan Kebiasaan Olahraga. http://repository.mercubaktijaya.ac.id/id/eprint/100

De Kort, M., Weber, K., Wimmer, B., Wilutzky, K., Neuenhahn, P., Allingham, P., & Leoni, A. L. (2020). Historical control data for hematology parameters obtained from toxicity studies performed on different Wistar rat strains: acceptable value ranges, definition of severity

degrees, and vehicle effects. Toxicology Research and Application,https://doi.org/10.1177/2397847320931484

Dewi, R. (2023). Uji Aktivitas Antibakteri Escherichia Coli Biji Kelor (Moringa Oleifera Lamk.) Berdasarkan Tingkat Kepolaran Pelarut (Doctoral Dissertation, Universitas Al-Irsyad Cilacap). Http://Repository.Universitasalirsyad.Ac.Id/Id/Eprint/391

Dewi, I. G. A. M. A., Adi, A. A. A. M., & Setiasih, N. L. E. (2022). Fluktuasi Profil Hematologi Tikus Putih Hewan Model Fibrosarkoma yang Diinduksi Benzo

(a) piren. Indonesia Medicus Veterinus, 11 (2), 276-281.http://ojs.unud.ac.id/php.index/imv

Dewita, D., Prihatin, N. S., & Jasmiati, J. (2023). PENINGKATAN KADAR HEMOGLOBIN DENGAN EKSTRAK BIT MERAH (Beta vulgaris L) PADA TIKUS Rattus norvegicus BUNTING ANEMIA. Jurnal Ilmiah Kebidanan Imelda, 9(1), 33-38.http://jurnal.uimedan.ac.id/index.php/JURNALKEBIDANAN

Dhakad, A. K., Ikram, M., Sharma, S., Khan, S., Pandey, V. V., & Singh, A. (2019).Biological, nutritional, and therapeutic significance of Moringa oleifera Lam. Phytotherapy research : PTR, 33(11), 2870–2903. https://doi.org/10.1002/ptr.6475

Díaz-Prieto, L. E., Gómez-Martínez, S., Vicente-Castro, I., Heredia, C., González-Romero, E. A., Martín-Ridaura, M. D. C., Ceinos, M., Picón, M. J., Marcos,A., & Nova, E. (2022). Effects of Moringa oleifera Lam. Supplementation on Inflammatory and Cardiometabolic Markers in Subjects with Prediabetes. Nutrients, 14(9), 1937. https://doi.org/10.3390/nu14091937

Djaba, E. S. S., & Marfu'ah, S. (2023). Pengaruh Pemberian Sayur Daun Kelor Terhadap Peningkatan Kadar Hemoglobin Pada Ibu Hamil. Cendekia Medika: Jurnal Stikes Al-Maarif Baturaja, 8(1), 73-87. : https://doi.org/10.52235/cendekiamedika.v8i1.213

Djamil, R. A., Irianto, S. E., & Maritasari, D. Y. (2023). Analisis Faktor-Faktor yangBerhubungan dengan Kejadian Anemia Pada Ibu Hamil Trimester III di Kabupaten Way Kanan Provinsi Lampung Tahun 2022. Ghidza: Jurnal Gizi dan Kesehatan, 7(1), 149-156 https://doi.org/10.22487/ghidza.v7i1.750

Doda, D. V. D., Polii, H., Marunduh, S., Sapulete, I. M. (2020) „Hemoglobin", in Fisiologi Sistem Hematologi. I. Yogyakarta: Deeppublish, pp. 19–26.

El-Kholy, A. A., El Kholy, E. A., Abdulaziz Al Abdulathim, M., Hassan Abdou, A.,Ahmed Dafaalla Karar, H., Abdelrhim Bushara, M., Abdelaal, K., & Sayed,

R. (2023). Prevalence and associated factors of anemia among pregnant women and the impact of clinical pharmacist counseling on their awareness level: A cross sectional study. Saudi pharmaceutical journal : SPJ : the

official publication of the Saudi Pharmaceutical Society, 31(8), 101699.https://doi.org/10.1016/j.jsps.2023.101699

Elmugabil, A., & Adam, I. (2023). Prevalence and Associated Risk Factors for Anemia in Pregnant Women in White Nile State, Sudan: A Cross-Sectional Study. SAGEopen nursing, 9,23779608231173287. https://doi.org/10.1177/23779608231173287

Eltayeb, R., Binsaleh, N. K., Alsaif, G., Ali, R. M., Alyahyawi, A. R., & Adam, I. (2023). Hemoglobin levels, anemia, and their associations with body mass index among pregnant women in Hail Maternity Hospital, Saudi Arabia: Across-sectional study. Nutrients, 15(16), 3508.

https://doi.org/10.3390/nu15163508

Fan, X., Krzyzanski, W., Liu, D., Wong, R. S. M., & Yan, X. (2023). Scaling Pharmacodynamics from Rats to Humans to Support Erythropoietin and Romiplostim Combination Therapy to Treat Erythropoietin-Resistant Anemia. Pharmaceutics, 15(2),344.https://doi.org/10.3390/pharmaceutics15020344

Fauziah, N. A., Fara, Y. D., & Sagita, Y. D. (2024). PENGARUH JUS BUAH BIT TERHADAP KADAR HEMOGLOBIN PADA IBU HAMIL TRIMESTER

III. Wellness And Healthy Magazine, 6(1), 38-46.

https://wellness.journalpress.id/wellness

Febta, M. (2024). Hepatoprotective Activity Test of Longan Leaf Methanol Extract (Euphoria Longan (L.) Steud.) Against Paracetamol-Induced SGOT and SGPT Liver Levels of Male White Rats. RADINKA JOURNAL OF HEALTH SCIENCE,1(3), 106-114. https://www.rjupublisher.com/ojs/index.php/RJHS

Febrianty, D. P., Meliyana, E., & Indrawati, L. (2023). Hubungan Kepatuhan Minum Obat Tablet Zat Besi (Fe) Pada Ibu Hamil Dengan Risiko Kejadian Anemia Di Puskesmas Bantargebang. Journal of Pubnursing Sciences, 1(03), 38-46. https://ejournal.stikku.ac.id/index.php/jphi

Ferdianti, D., Ismarwati, S. K. M., & ST, S. (2023). HUBUNGAN KEPATUHAN DALAM MENGONSUMSI TABLET ZAT BESI DENGAN KEJADIAN ANEMIA PADA IBU HAMIL TRIMESTER III DI PUSKESMAS TEGALREJO YOGYAKARTA (Doctoral dissertation, Universitas' Aisyiyah Yogyakarta). https://lib.unisayogya.ac.id/

Fitriana, A. (2023). Peningkatan Pengetahuan Melalui Edukasi Pada Ibu Hamil Tentang Pentingnya Suplemen Zat Besi dan Asam Folat di Desa Dapur Kejambon Kabupaten Jombang. Jurnal Abdi Medika, 3(1), 17-23. https://doi.org/10.35874/jam.v3i1.1183

Fitri, I. and Wiji, R. N. (2019) "Nutrisi Gizi Ibu Hamil", in Buku Ajar Gizi Reproduksi Dan Bukti. I. Yogyakarta: Gosyen, pp. 106–08.

Fungtammasan, S., & Phupong, V. (2021). The effect of Moringa oleifera capsule in increasing breastmilk volume in early postpartum patients: A double-blind, randomized controlled trial. PloS one, 16(4), e0248950. https://doi.org/10.1371/journal.pone.0248950

Gao, X., Yang, W., Li, S., Liu, S., Yang, W., Song, S., Sheng, J., Zhao, Y., & Tian, Y. (2023). Moringa oleifera leaf alleviates functional constipation via regulating the gut microbiota and the enteric nervous system in mice. Frontiers in microbiology, 14, 1315402. https://doi.org/10.3389/fmicb.2023.1315402

Garzon, S., Cacciato, P. M., Certelli, C., Salvaggio, C., Magliarditi, M., & Rizzo, G. (2020). Iron Deficiency Anemia in Pregnancy: Novel Approaches for an Old Problem. Oman medical journal, 35(5), e166. https://doi.org/10.5001/omj.2020.108

GONG Sijia, KANG Ao, CHEN Kejing, et al (2021). Research Progress on Nutrition, Function and Application of Moringa oleifera Leaves[J]. Science and Technology of Food Industry, 42(21): 435−444. (in Chinese with English abstract). https://doi.org/10.13386/j.issn1002-0306.2020100030

Grosshagauer, S., Pirkwieser, P., Kraemer, K., & Somoza, V. (2021). The Future ofMoringa Foods: A Food Chemistry Perspective. Frontiers in nutrition, 8, 751076. https://doi.org/10.3389/fnut.2021.751076

Hamodi, L. E., Naji, A. S., & Ismael, S. H. (2022). FACTORS ASSOCIATED WITH ANEMIA IN WOMEN OF REPRODUCTIVE AGE IN IRAQI FEMALESSAMPLE.Wiadomosci lekarskie (Warsaw, Poland: 1960), 75(1 pt 2), 164–171. DOI: 10.36740/WLek202201203

Hamza, E., Metzinger, L., & Metzinger-Le Meuth, V. (2020). Uremic Toxins Affect Erythropoiesis during the Course of Chronic Kidney Disease: A Review. Cells, 9(9), 2039. https://doi.org/10.3390/cells9092039

Han, T. B., Guo, L. L., Yang, F. F., Zhao, F., Du, W. Q., Wang, Y., Shen, J. X., Feng,

Y. L., Yang, H. L., Zhang, Y. W., Wu, W. W., & Wang, S. P. (2020). Zhonghua liu xing bing xue za zhi = Zhonghua liuxingbingxue zazhi, 41(11), 1894–1899. https://doi.org/10.3760/cma.j.cn112338-20191218-00895

Handayani, Sri. Pemanfaatan Herbal dalam Kebidanan. Eureka Media Aksara, 2023. https://repository.penerbiteureka.com/media/publications/560362-pemanfaatan-herbal-dalam-kebidanan-e49ddefa.pdf

Hartati, T., & Sunarsih, S. (2021). Konsumsi Ekstrak Daun Kelor Dalam Meningkatkan Kadar Hemoglobin Pada Ibu Hamil. Malahayati Nursing Journal, 3(1). https://doi.org/10.33024/manuju.v3i1.3 231

Hasan, M. S. (2023). Peran Daun Kelor dan Madu terhadap Kebugaran Fisik.

Penerbit NEM: Bojong.

Hasna, D. (2022). *PENGARUH PEMBERIAN JUS KUBIS MERAH (Brassica oleracea var. capitata f. rubra) TERHADAP KADAR SUPEROKSIDA DISMUTASE (SOD) Studi Ekperimental pada tikus putih jantan (Rattus norvegicus) yang diinduksi Parasetamol* (Doctoral dissertation, Universitas Islam Sultan Agung). http://repository.unissula.ac.id/id/eprint/25442

Hassanpour, S. H., & Doroudi, A. (2023). Review of the antioxidant potential of flavonoids as a subgroup of polyphenols and partial substitute for synthetic antioxidants. Avicenna journal of phytomedicine, 13(4), 354–376. https://doi.org/10.22038/AJP.2023.21774

Hayati, S. (2020). Pengaruh Konsumsi Tablet Fe Dengan Kejadian Konstipasi Pada Ibu Hamil Diwilayah Kerja Puskesmas Payung Sekaki Pekanbaru. Jurnal Medika Usada, 3(1), 15-19. https://doi.org/10.54107/medikausada.v3i1.65

Hermin, H. (2023). Pengaruh Pemberian Deppamil Dangke Terhadap PeningkatanLingkar Lengan Atas Dan Kadar Hemoglobin Pada Ibu Hamil KekuranganEnergi Kronik (Doctoral dissertation, Universitas Hasanuddin). http://repository.unhas.ac.id:443/id/eprint/27450

Ibrahim Salih, A., Mohammed Saleh, H., Sulaiman Khalaf, A., & Sabbar Ayed, H. (2022). Effect of Moringa oleifera Leaves against Hepatotoxicity Induced by Bisphenol A. Archives of Razi Institute, 77(3), 1083–1089. https://doi.org/10.22092/ARI.2022.357266.2005

Imai K. (2020). Parity-based assessment of anemia and iron deficiency in pregnant women. Taiwanese journal of obstetrics & gynecology, 59(6), 838–841. https://doi.org/10.1016/j.tjog.2020.09.010

Iman Bumulo, N. (2023). VARIASI PENAMBAHAN DAUN KELOR TERHADAP NUGGET SAGELA DITINJAU DARI SIFAT FISIK, SIFAT ORGANOLEPTIK, KADAR PROKSIMAT DAN FE (Doctoral dissertation, Poltekkes Kemenkes Yogyakarta). http://poltekkesjogja.ac.id

Indriani, L., Zaddana, C., Nurdin, N.M., Sitinjak, J.S.M. (2019). Pengaruh Pemberian edukasi Gizi dan Kapsul Serbuk Daun Kelor (Moringa oleifera L) terhadap Kenaikan Kadar Hemoglobin Remaja Putri di Universitas Pakuan. Media Pharmaceutica Indonesiana 2(4). https://doi.org/10.24123/mpi.v2i4.2109

Islam, M. T., Chowdhury, R., Al Hasan, M. S., Sheikh, S., Bhuia, M. S., Bithi, S. A., ... & Ansari, I. A. (2024). Possible hemoglobin enhancing effect of phytol in methotrexate-induced folate deficient Swiss albino mice: In vivo and in silico studies. Pharmaceutical Science Advances, 100043. https://doi.org/10.1016/j.pscia.2024.100043

Izzati, A. I., Tamtomo, D., & Rahardjo, S. S. (2021). Hubungan tingkat kepatuhankonsumsi tablet Fe dengan kejadian anemia ibu hamil di Puskesmas Margasari. Prosiding Seminar Nasional Kesehatan Masyarakat Universitas Muhammadiyah Surakarta 2021. http://hdl.handle.net/11617/12507

Jabar, M. A., Ramadhanti, S., Purnamaningrum, S. P. D., & Christijanti, W. (2023). Analisis Perbandingan Kadar Hemoglobin, Jumlah dan Struktur Eritrosit pada Lima Kelas Vertebrata. Life Science, 12(2), 128-136. http://journal.unnes.ac.id/sju/index.php/LifeSci

Japaries, W., Hardi, Y. F., & Ayu, F. D. (2023). Kajian Sistematis Efek Empiris, Farmakologis dan Klinis Terapi Kelor (Moringa oleifera Lam.). An- Najat, 1(3), 70-84. https://doi.org/10.59841/an-najat.v1i3.149

Jiang, M. Y., Lu, H., Pu, X. Y., Li, Y. H., Tian, K., Xiong, Y., Wang, W., & Huang, X. Z. (2020). Laxative Metabolites from the Leaves of Moringa oleifera. Journal of agricultural and food chemistry, 68(30), 7850–7860. https://doi.org/10.1021/acs.jafc.0c01564

Jose, A. F., Jayaraj, P. M., & Chethan, G. (2020). Anemia in chronic liver disease and liver failure in adults-a clinical study. https://pesquisa.bvsalud.org/portal/resource/pt/sea-202801

Kadi, P. (2022). Konsumsi Kapsul Tepung Daun Kelor dan Sari Jeruk Manis Terhadap Peningkatan Kadar Haemoglobin Remaja Putri Post Menstruasi. Jurnal Kesehatan Delima Pelamonia, 107-113. https://doi.org/10.37337/jkdp.v0i0.283

Kamath, S., Parveen, R. S., Hegde, S., Mathias, E. G., Nayak, V., & Boloor, A. (2023). Daily versus alternate day oral iron therapy in iron deficiency anemia: a systematic review. Naunyn-Schmiedeberg's archives ofpharmacology, 10.1007/s00210-023-02817-7. Advance online publication.https://doi.org/10.1007/s00210-023-02817-7

Kandinata, Y., Jayani, N. I. E., Budipramana, K., & Herawati, F. (2023) . Moringa oleifera L. Sebagai Suplemen Untuk Anemia Defisiensi Besi: Systematic Review. JPSCR: Journal of Pharmaceutical Science and Clinical Research, 8(2), 165-178. http://repository.ubaya.ac.id/id/eprint/44719

Kara, W. S. K., Chikomele, J., Mzigaba, M. M., Mao, J., & Mghanga, F. P. (2020). Anaemia in pregnancy in Southern Tanzania: Prevalence and associatedrisk factors. African journal of reproductive health, 24(3), 154–160. https://doi.org/10.29063/ajrh2020/v24i3.17

Kemenkes, RI. (2019). Profil Kesehatan Indonesia Tahun 2019. Jakarta :WHO

Kemenkes RI. (2021). Profil Kesehatan Indonesia. Kemenkes RI.

Kok, T., Jayani, N. I. E., Rani, K. C., Dahliana, A., Budhyantoro, A., & Ningrum,I.S. (2023). Toga dan Produk Olahan. http://repository.ubaya.ac.id/id/eprint/44276

Komang, W. A. P., Aisyah, R., & Hardiana, I. (2023). UJI EFEKTIVITAS ANTIHIPERTENSI EKSTRAK ETANOL BAWANG PUTIH (Allium sativum Linn.) BALI PADA HEWAN COBA MENCIT (Mus Musculus)JANTAN. Jurnal Farmasi Kryonaut, 2(2), 108-115. https://doi.org/10.59969/jfk.v2i2.63

Kusmardika, D. A. (2020). Potensi aktivitas antioksidan daun kelor (Moringa oleifera) dalam mencegahan kanker. Journal of Health Science and Physiotherapy, 2(1), 46-50. https://media.neliti.com/media/publications/422907-none-b875fc24.pdf

Laeto, A. B., Inggarsih, R., Purnamasari, S., & Diba, M. F. (2023). PERBANDINGAN KADAR BIOMARKER FUNGSI KUOGULASI TIKUS PUTIH (Rattus norvegicus) BERDASARKAN VARIASI DIET VEGETARIAN. Jurnal Ilmiah Ibnu Sina, 8(2), 195-205.https://doi.org/10.36387/jiis.v8i2.1322

Laeto, A. B., Inggarsih, R., Purnamasari, S., Diba, M. F., & Taharu, F. I. (2022). Analisis Profil Eritrosit Tikus Putih (Rattus norvegicus) Pasca Diet Vegetarian. Sang Pencerah: Jurnal Ilmiah Universitas Muhammadiyah Buton, 8(1), 107-118. https://doi.org/10.35326/pencerah.v8i1.1901

Laia, J., Suroyo, R. B., & Panjaitan, I. M. (2023). Faktor Yang Memengaruhi Terjadinya Anemia Pada Ibu Hamil Di Puskesmas Luahagundre Maniamolo Kabupaten Nias Selatan Tahun 2022. Jurnal Ilmu Kesehatan dan Gizi, 1(1),92-108.

Lestari, A., & Tyas, T. A. W. (2023). Profil Pemeriksaan Hematologi dan Fungsi Hati pada Lansia dengan Sirosis Hepatis. Muhammadiyah Journal of Geriatric, 4(1), 65-72. https://doi.org/10.24853/mujg.4.1.65-72

Li, L. J., & Zhang, L. S. (2021). Zhonghua yi xue za zhi, 101(40), 3266–3270.https://doi.org/10.3760/cma.j.cn112137-20210609-01319

Manggul, M. S., Hidayanty, H., Arifuddin, S., Ahmad, M., Hadju, V., & Usman, A.

N. (2021). Biscuits containing Moringa oleifera leaves flour improve conditions of anemia in pregnant women. Gaceta Sanitaria, 35 Suppl 2, S191–S195. https://doi.org/10.1016/j.gaceta.2021.07 .013

Manrai, M., Dawra, S., Kapoor, R., Srivastava, S., & Singh, A. (2022). Anemia in cirrhosis: An underestimated entity. World journal of clinical cases, 10(3), 777–789. https://doi.org/10.12998/wjcc.v10.i3.777

Maulidiyah, M., Hartanto, T. P., Putri, S. N. D., San Sabhira, A., Mukarromah, I. W., Putri, R. A., ... & Ningsih, A. W. (2023). Artikel Review: Studi

Fitokimia Dan Farmakologi Tanaman Kelor (Moringa Oleifera Lam). The Journal General Health and Pharmaceutical Sciences Research, 1(4), 45-52. https://doi.org/10.57213/tjghpsr.v1i4.110

Marhaeni, L. S. (2021). Daun Kelor (Moringa Oleifera) Sebagai Sumber Pangan Fungsional Dan Antioksidan. Agrisia-Jurnal Ilmu-Ilmu Pertanian, 13(2). https://ejournal.borobudur.ac.id/index.php/3/article/view/882

Meireles, D., Gomes, J., Lopes, L., Hinzmann, M., & Machado, J. (2020). A reviewof properties , nutritional and pharmaceutical applications of Moringa oleifera : integrative approach on conventional and traditional Asian medicine. Advances in Traditional Medicine, 20(4), 495–515. https://doi.org/10.1007/s13596-020-00468-0

Merrell BJ, McMurry JP. Folic Acid. [Updated 2023 Aug 8]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan-. Availablefrom: https://www.ncbi.nlm.nih.gov/books/NBK554487/

Mohammed, G. M., & Hawar, S. N. (2022). Green Biosynthesis of Silver Nanoparticles from Moringa oleifera Leaves and Its Antimicrobial and Cytotoxicity Activities. International journal of biomaterials, 2022, 4136641. https://doi.org/10.1155/2022/4136641.

Momongan, N., Montol, A., Kereh, P., & Imbar, H. S. (2023). Use Of Functional Foods Of Moringa Leaf (Moringa Oleifera) Into Variety Of Food Products In Anemia Management Efforts. Jurnal Ilmiah Perawat Manado (Juiperdo), 11(1), 81-90. Https://Doi.Org/10.47718/Jpd.V11i1.1858

Mudrika, A., Tarigan, N., & Pasaribu, S. F. (2023). Studi Literatur: Hubungan Asupan Folat Dan Zink Dengan Kejadian Anemia Ibu Hamil. Jurnal Ilmiah Kedokteran dan Kesehatan, 2(3), 261-271. https://doi.org/10.55606/klinik.v2i3.2158

Mukhtar, S., Xiaoxiong, Z., Qamer, S., Saad, M., Mubarik, M. S., Mahmoud, A. H., & Mohammed, O. B. (2021). Hepatoprotective activity of silymarin encapsulation against hepatic damage in albino rats. Saudi journal of biological sciences, 28(1), 717–723. https://doi.org/10.1016/j.sjbs.2020.10.063

Muldianah, D., Hilmi, I. L., & Salman, S. (2023). Implikasi Suplemen Asam Folat Prenatal terhadap Risiko Autism Spectrum Disorder (ASD) pada Keturunannya. Journal of Pharmaceutical and Sciences, 575-585.https://www.journal-jps.com

Mursito, S., Lilies, B., Mawaddah, H. (2020). Ekstrak Daun Kelor (Moringa oleifera Lamk) dalam Menurunkan Kadar Glukosa Darah Pada Tikus (Rattus norvegicus). Journal Bionature 21(1). https://doi.org/10.35580/bionature.v21i1.13921

Nasir, B. B., Fentie, A. M., & Adisu, M. K. (2020). Adherence to iron and folic acid supplementation and prevalence of anemia among pregnant

women attending antenatal care clinic at Tikur Anbessa Specialized Hospital, Ethiopia. Plos one, 15(5), e0232625. https://doi.org/10.1371/journal.pone.0232625

Nasution, Y. E. (2023). Pengaruh Pemberian Jus Buah Bit Terhadap Kenaikan Kadar HB Pada Ibu Hamil Trimester III di Wilayah Kerja Uptd PuskesmasMakmur. JUBIDA-Jurnal Kebidanan, 2(2), 28 36.https://doi.org/10.1371/journal.pone.0232625

Nizioł-Łukaszewska, Z., Furman-Toczek, D., Bujak, T., Wasilewski, T., & Hordyjewicz-Baran, Z. (2020). Moringa oleifera L. Extracts as Bioactive Ingredients That Increase Safety of Body Wash Cosmetics. Dermatology research and practice, 2020, 8197902. https://doi.org/10.1155/2020/8197902

Noreen, A., Rizwan, B., Ijaz, A., Imran, M., Nisar, T., Farooq, S., Iftikhar, F., Sikander, S., & Ahmed, H. (2020). A review on Moringa oleifera- A potentMedicinal Herb. International Journal of Biosciences, 16(4), 50-508. http://www.innspub.net

Nugrahaeni, A. (2020) "Sistem Peredaran Darah", in Pengantar Anatomi FisiologiManusia. I. Yogyakarta: Healthy, pp. 1–87.

Nurhayati, T., Fathoni, M. I., Fatimah, S. N., Tarawan, V. M., Goenawan, H., & Dwiwina, R. G. (2023). Effect of Moringa oleifera Leaf Powder on Hematological Profile of Male Wistar Rats. Journal of blood medicine, 14,477–485. https://doi.org/10.2147/JBM.S407884

Nurmalasari, Y., Rafie, R., Warganegara, E., & Wahyuni, L. D. (2021). Pengaruh Pemberian Ekstrak Daun Kelor (Moringa Oleifera) Terhadap Kadar Hemoglobin Pada Tikus Putih (Rattus Norvegicus) Galur Wistar Jantan. Jurnal Medika Malahayati, 5(2), 91-101. https://ejurnalmalahayati.ac.id/index.php/medika/article/view/4155

Nurshazidah, S., Prasetya, F. A., Fikayuniar, L., Utami, D. S. P., Andini, D. A. P., Wijaya, G. D., ... & Al Atoriq, M. (2023). Uji Kadar Flavonoid Total Pada Simplisia Daun Kelor (Moringa Oleifera L.) Dari Berbagai Jenis Pereaksi. Jurnal Ilmiah Wahana Pendidikan, 9(16), 712-723. https://doi.org/10.5281/zenodo.8264936

Nurwanti, R., & Hamzah, H. (2023). Uji Kadar Zat Besi (Fe) Sediaan Obat Tablet Tambah Darah (Ferro Fumarat) dengan Metode Kompleksometri. Jurnal Sains dan Kesehatan, 2(1), 38-43. https://doi.org/10.57151/jsika.v2i1.158

Oiye, S., Juma, M., Konyole, S., & Adan, F. (2020). The Influence of Antenatal Oral Iron and Folic Acid Side Effects on Supplementation Duration in Low-Resource Rural Kenya: A Cross-Sectional Study. Journal of pregnancy, 2020, 9621831. https://doi.org/10.1155/2020/9621831

Orabona, R., Zanardini, C., Zatti, S., Sartori, E., & Prefumo, F. (2020). Folic Acid Supplementation in Pregnancy: A Matter of Doses? Hypertension,76,30–31.

https://doi.org/10.1161/HYPERTENSIONAH A.120.15009

Palikhey, A., Prajapati, P., Yadav, A., Shrestha, J., Subedi, J., Shrestha, L., ... & Yadav, C. K. (2022). Adherence to iron and folic acid supplementation and prevalence of anaemia among pregnant women at a tertiary care hospital. Journal of Chitwan Medical College, 12(2), 59- 63. https://doi.org/10.54530/jcmc.703

Pang, X. L., DU, H. F., Yang, Y., Zhou, X. P., Tang, N., Liu, J. W., & Xu, Y.(2023). Zhongguo shi yan xue ye xue za zhi, 31(3), 830–836. https://doi.org/10.19746/j.cnki.issn.1009-2137.2023.03.031

Pagani, A., Nai, A., Silvestri, L., & Camaschella, C. (2019). Hepcidin and Anemia: A Tight Relationship. Frontiers in physiology, 10, 1294. https://doi.org/10.3389/fphys.2019.01294

Pareek, A., Pant, M., Gupta, M. M., Kashania, P., et al (2023). Moringa oleifera: AnUpdated Comprehensive Review of Its Pharmacological Activities, Ethnomedicinal, Phytopharmaceutical Formulation, Clinical, Phytochemical, and Toxicological Aspects. International journal of molecular sciences, 24(3), 2098. https://doi.org/10.3390/ijms24032098:

Paridah, Y., Sitorus, R. J., Flora, R., Nurlaili, N., & Tanjung, R. (2021). Analisis Perilaku Keteraturan Mengkonsumsi Tablet Tambah Darah dengan Kejadian Anemia pada Ibu Hamil. Jurnal Keperawatan Silampari, 5(1), 560-569. https://doi.org/10.31539/jks.v5i1.3103

Parvataneni, S., & Maw, M. (2020). Ileus Due to Iron Pills: A Case Report and Literature Report on the Importance of Stool Softeners. Cureus, 12(6),e8392. https://doi.org/10.7759/cureus.8392

Pearce, E. C. (2021) "Darah", in Handoyo, S. Y. and Mohammad, K. (eds) AnatomiDan Fisiologi Untuk Para Medis. I. Jakarta: PT Gramedia Pustaka Utama, pp. 1–403.https://doi.org/10.3390/ijms24032098

Profil Sul-Sel. (2021). Data Kehamian dengan Anemia.

Proverawati. (2020). Anemia dan Anemia Kehamilan. Nuha Medika.

Putri, & Fajriah. (2020). Buku Ajar Asuhhan Kebidanan Patologi. CV. Pena Persada. https://doi.org/10.31237/osf.io/6fz4m

Putri, A. S. (2021). EFEKTIVITAS AFRODISIAKA DARI EKSTRAK DAUN KELOR (Moringa oleifera), JAHE MERAH (Zingiber officinale) DANBEE POLLEN TERHADAP SEKSUALITAS PADA TIKUS PUTIH (Rattus novergicus) JANTAN WISTAR (Doctoral dissertation, Universitas Hasanuddin). http://repository.unhas.ac.id:443/id/eprint/4798

Qatrunnada, N. A., Sulistian, R. P., Sulistyaningrum, H., & Isworo, J. T. (2023, November). Hubungan Kecukupan Fe, Folat, Dan Vitamin B12 Dengan Kadar Hemoglobin Ibu Hamil di Wilayah Puskesmas

Guntur Kabupaten Demak. In Prosiding Seminar Nasional Unimus (Vol. 6). https://prosiding.unimus.ac.id/index.php/semnas/article/view/1559

Rani, K. C., Ekajayani, N. I., Darmasetiawan, N., Kresna., Dewi, A. D. R. (2019)"Kandungan Nutrisi Tanaman Kelor (Moriga Oleifera)", in Modul Pelatihan. I. Surabaya: Fakultas Farmasi Universitas Surabaya, pp. 1–5. http://repository.ubaya.ac.id/id/eprint/38511

Rishel, R. A. (2023). Pengaruh Pemberian Kapsul Daun Kelor (Moringa Oleifera) Terhadap Kadar Hemoglobin Ibu Hamil Dengan Anemia. Jurnal Ilmu Keperawatan dan Kebidanan, 14(1), 187-192. https://doi.org/10.26751/jikk.v14i1.1592

Rismawati, R., Jana, V. A., Latifah, N. S., & Sunarsih, S. (2021). Manfaat Kapsul Daun Kelor Dalam Meningkatkan Kadar Hemoglobin Ibu Hamil. Jurnal Kebidanan Malahayati, 7(2), 229-233. DOI : 10.33024/jkm.v7i2.1958

Rode, S. B., Dadmal, A., & Salankar, H. V. (2022). Nature's Gold (Moringa Oleifera): MiracleProperties. Cureus, 14(7), e26640. https://doi.org/10.7759/cureus.26640

Rosidah, I., Ningsih, S., Renggan, T. N., Agustini, K., & Efendi, J. (2020). Profil hematologi tikus (rattus norvegicus) galur sprague-dawley jantan umur 7 dan 10 minggu. Jurnal Bioteknologi dan Biosains Indonesia, 7(1), 136-145. https://doi.org/10.29122/jbbi.v7i1.3568Rosyidah, & Azizah. (2019). Buku Ajar Mata Kuliah Obstetri Pathologi (Pathologi Dalam Kehamilan). UMSIDA PRESS. https://doi.org/10.21070/2019/978-602-5914-88-1

Rotella, R., Soriano, J. M., Llopis-González, A., & Morales-Suarez-Varela, M. (2023). The Impact of Moringa oleifera Supplementation on Anemia and other Variables during Pregnancy and Breastfeeding: A Narrative Review. Nutrients, 15(12), 2674. https://doi.org/10.3390/nu15122674

Rotundo, L., & Pyrsopoulos, N. (2020). Liver injury induced by paracetamol and challenges associated with intentional and unintentional use. World journal of hepatology, 12(4), 125–136. https://doi.org/10.4254/wjh.v12.i4.125

Saldanha, L. G., Dwyer, J. T., Haggans, C. J., Mills, J. L., & Potischman, N. (2020).Perspective: Time to Resolve Confusion on Folate Amounts, Units, and Forms in Prenatal Supplements. Advances in nutrition (Bethesda, Md.), 11(4), 753–759. https://doi.org/10.1093/advances/nmaa017

Saputra, M. F. (2020). Analisa Pengaruh Temperatur Terhadap Pengeringan DaunKelor (Moringa Oleifera) Menggunakan Alat Photovoltaic Tray Dryer (Doctoral Dissertation, Politeknik Negeri Sriwijaya). http://eprints.polsri.ac.id/id/eprint/9574

Santoso, A., Tasya, S. M., & Martha, R. D. (2023). PENGARUH PEMBERIAN KAPSUL DAUN KELOR (Moringa oleifera L.) PADA PASIEN HIPERTENSI TERHADAP KADAR SGPT. SAINS INDONESIANA, 1(5), 313-323. Vol. 1 No. 5 (2023): Vol. 1, No. 5 EdisiOktober 2023.

Santoso, A., Hidayati, T., Akrom, A., & Nurani, L. H. (2021). The Effect of BlackCumin Seed Oil on Alanine Aminotransferase Levels which are Influenced by Nutritional Status in Active Smokers. PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia), 18(2), 432. https://doi.org/10.30595/pharmacy.v18i2.13256

Satriawati, A. C., Sarti, S., Yasin, Z., Oktavianisya, N., & Sholihah, R. (2021). Sayur Daun Kelor Untuk Meningkatkan Kadar Hemoglobin pada Ibu Hamildengan Anemia. Jurnal Keperawatan Profesional (KEPO), 2(2), 49- 55. https://doi.org/10.36590/kepo.v2i2.170

Sadha, N. S. N., Gondo, H. K., & Wulandari, A. S. (2022). Moringa oleifera: Tambahan Suplementasi Zat Besi pada Ibu Hamil dengan Anemia Defisiensi Besi. Majalah Kedokteran Andalas, 45(2), 185-195. http://jurnalmka.fk.unand.ac.id

Sembiring, B. & Maharani, I. (2023). Pengaruh Ekstrak Daun Kelor (Moringa oleifera) terhadap Jumlah Leukosit Tikus Putih (Rattus norvegicus) yang Terinfeksi Escherichia coli. https://repository.uhn.ac.id/handle/123456789/8391

Septa, R. (2023). Hubungan Asupan Vitamin C, Asam Folat Dan Zat Besi Dan Protein Dengan Kadar Haemoglobin Pada Remaja Putri Di Kota Bengkulu. Svasta Harena Rafflesia, 2(1). https://doi.org/10.33088/shr.v2i1.394

Sendeku, F. W., Azeze, G. G., & Fenta, S. L. (2020). Adherence to iron-folic acid supplementation among pregnant women in Ethiopia: a systematic review and meta-analysis. BMC pregnancy and childbirth, 20(1), 138.https://doi.org/10.1186/s12884-020-2835-0

Sha, Z. J., Li, C. F., Tang, S. H., Yang, H. J., Zhang, Y., Li, Z. Y., & Yang, B.(2021). Zhongguo Zhong yao za zhi = Zhongguo zhongyao zazhi = China journal of Chinese materia medica, 46(14), 3465–3477. https://doi.org/10.19540/j.cnki.cjcmm.20210309.401

Silaban, H., & Simatupang, A. (2020). PANDUAN PRAKTIKUM BLOK VI FARMAKOLOGI.

Silalahi M.(2020). Pemanfaatan Daun Kelor (Moringa oleifera Lam) sebagai BahanObat Tradisional dan Bahan Pangan. Majalah Sainstekes. 7. 10.33476/ms.v7i2.1703. http://dx.doi.org/10.33476/ms.v7i2.1703

Sinaga, R. M., Zuska, F., & Sitorus, P. (2021). Indegenous healer knowledge aboutillness and the way to make traditional medicine. Indonesian

Journal of Medical Anthropology, 2(1),43-47. https://doi.org/10.32734/ijma.v2i1.5297

Singh, S., Manrai, M., V S, P., Kumar, D., Srivastava, S., & Pathak, B. (2020). Association of liver cirrhosis severity with anemia: does it matter?. *Annals of gastroenterology*, *33*(3), 272–276. https://doi.org/10.20524/aog.2020.0478

SIPAYUNG, Y. K. (2023). Perbedaan Jumlah Trombosit Tikus Putih Jantan Galur Wistar (Rattus norvegicus) yang Terinfeksi Escherichia coli dengan Pemberian Ekstrak Daun Kelor (Moringa oleifera). https://repository.uhn.ac.id/handle/123456789/8330

Siregar, D. M., Asmilia, N., Fahrimal, Y., Hamzah, A., Hasan, M., Daud, R., ... & Sambodo, P. (2021). 5. Hematological Changes in Rattus Norvegicus infected with Trypanosoma evansi after Administration of Ethanol Extract of Phyllanthus Emblica. Jurnal Medika Veterinaria, 15(2). https://doi.org/10.21157/j.med.vet..v15i2.23917

Sitepu, P. A. B. (2023). Analisa Kandungan Mineral Kalsium (Ca) Pada Daun Kelor (Moringa Oleifera) Di Dusun Mekar Sari Desa Karang Rejo Kecamatan Stabat Kabupaten Langkat. http://ecampus.poltekkesmedan.ac.id/xmlui/handle/123456789/7624

Sha, Z. J., Li, C. F., Tang, S. H., Yang, H. J., Zhang, Y., Li, Z. Y., & Yang, B.(2021). Zhongguo Zhong yao za zhi = Zhongguo zhongyao zazhi = China journal of Chinese materia medica, 46(14), 3465–3477. https://doi.org/10.19540/j.cnki.cjcmm.20210309.401

Shan, Z., & Ju, C. (2020). Hepatic Macrophages in Liver Injury. Frontiers in immunology, 11, 322. https://doi.org/10.3389/fimmu.2020.00322

Sholikhah, D. M., Suffah, F. A. & Rahma, A. (2023). Hubungan Konsumsi Sumber Zat Besi, Asam Folat, Dan Kobalamin Dengan Kejadian Anemia Pada Remaja Putri Di Sekolah Menengah Atas Kecamatan Menganti. IJMT: Indonesian Journalof Midwifery Today, 3(1), 2733 http://dx.doi.org/10.30587/ijmt.v3i1.6799

Suffah, F. A. (2023). Hubungan Konsumsi Sumber Zat Besi, Asam Folat, Dan Kobalamin Dengan Kejadian Anemia Pada Remaja Putri Di Sekolah Menengah Atas Kecamatan Menganti (Doctoral dissertation, Universitas Muhammadiyah Gresik). http://eprints.umg.ac.id/id/eprint/8535

Su, X., Lu, G., Ye, L., Shi, R., Zhu, M., Yu, X., Li, Z., Jia, X., & Feng, L.(2023). Moringa oleifera Lam.: a comprehensive review on active components, health benefits and application. RSC advances, 13(35), 24353–24384. https://doi.org/10.1039/d3ra03584k

Sugiyono. 2019. Metodelogi Penelitian Kuantitatif dan Kualitatif Dan R&D. Bandung: Alfabeta.

Sulibursk a, J., Skrypnik, K., & Chmurzyńska, A. (2020). Folic acid affects iron status in female rats with deficiency of these micronutrients. Biological trace element research, 195(2), 551-558. https://doi.org/10.1007/s12011- 019-01888-z

Sun, C. F., Liu, H., Hao, Y. H., Hu, H. T., Zhou, Z. Y., Zou, K. X., Liu, X. M., Sheng, J. Z., Ding, G. L., & Huang, H. F. (2021). Association between gestationalanemia in different trimesters and neonatal outcomes: a retrospective longitudinal cohort study. World journal of pediatrics : WJP, 17(2), 197– 204. https://doi.org/10.1007/s12519-021-00411-6

Supriyatiningsih. (2019). Monograh Anemia dalam Kehamilan dengan Kejadian Hiperemesis Gravidarum. LP3M Universitas Muhammadiyah Yogyakarta.

Susiloningtyas, I. (2023). Pemberian zat besi (Fe) dalam Kehamilan. Majalah Ilmiah Sultan Agung, 50(128), 73-99.

Susiyanti, E., & Hartini, H. (2021). EFEKTIVITAS KONSUMSI DAUN KELOR TERHADAP PENINGKATAN KADAR HEMOGLOBIN PADA IBU HAMIL DENGAN ANEMIA. Jurnal Keperawatan, 14(2), 40-52. https://e-journal.lppmdianhusada.ac.id/index.php/jk/article/view/177

Tamimi, A. A., de Queljoe, E., & Siampa, J. P. (2020). Uji efek analgesik ekstrak etanol daun kelor (Moringa oleifera Lam.) pada tikus putih jantan galur wistar (Rattusnorvegicus). Pharmacon, 9(3), 325-333. https://doi.org/10.35799/pha.9.2020.30015

Tan, P., Jin, L., Qin, X., & He, B. (2022). Natural flavonoids: Potential therapeutic strategies for non-alcoholic fatty liver disease. Frontiers in pharmacology, 13, 1005312. https://doi.org/10.3389/fphar.2022.1005312

Tariq, S., Umbreen, H., Noreen, R., Petitbois, C., Aftab, K., Alasmary, F. A., Almalki, A. S., & Mazid, M. A. (2022). Comparative Analysis of Antioxidants Activity of Indigenously Produced Moringa Oleifera Seeds Extracts. BioMed research international, 2022, 4987929.https://doi.org/10.1155/2022/4987929.

Tello-Palma, E., Choque-Quispe, M., Pacheco-Tanaka, M., Zamalloa-Cuba, W., Valencia-Pacho, M., Donaires-Flores, T., Macedo-Enriquez, E., Viza-Salas, A., Quispe-Romero, A., Paredes-Ugarte, W., Cossio-Bolaños, M., & Gómez-Campos, R. (2022). Efectos de la suplementación de hierro microencapsulado y hemínico para la recuperación de los niveles de hemoglobina en ratas alimentadas sin hierro [Effects of microencapsulatedand heme iron supplementation on the recovery of hemoglobin levels in iron-depleted rats]. Nutricion hospitalaria, 39(6), 1357–1363. https://doi.org/10.20960/nh.04075

Thenmozhi, P., Nirmala, M., & Subalakshmi, P. (2020). Moringa oleifera leaves soup on hemoglobin among antenatal mothers. Education, 34(40), 5. www.florajournal.com

Triani, Y., Rasyida, Z. M., & Winarni, W. (2023). Pengaruh Pemberian Ekstrak Daun Kelor terhadap Kenaikan Kadar Hemoglobin pada Ibu Hamil denganAnemia. ASJN (Aisyiyah Surakarta Journal of Nursing), 4(2), 89-95. https://journal.aiska-university.ac.id/index.php/ASJN

Trigo, C., Castelló, M. L., & Ortolá, M. D. (2023). Potentiality of Moringa oleifera as a Nutritive Ingredient in Different Food Matrices. Plant foods for humannutrition (Dordrecht, Netherlands), 78(1), 25–37. https://doi.org/10.1007/s11130-022-01023-9

Trinumasari, A., Pramono, J. S., & Suryani, H. (2023). PENGARUH PEMBERIAN KOMBINASI JUS BUAH PEPAYA DAN SERBUK DAUN KELOR TERHADAP KADAR HEMOGLOBIN IBU HAMIL. Bunda Edu-Midwifery Journal (BEMJ), 6(2), 152-158. https://doi.org/10.54100/bemj.v6i2.110

Wahyuni, S., Wardhani, Y., Iriani, F. A., & Iriyani, N. F. (2023). Upaya Pencegahan Anemia pada Kehamilan dengan Pemberian Ekstrak Daun Kelor (MoringaOlievera) di Kelurahan Tanjung Ria Wilayah Puskesmas Tanjung Ria. Indonesian Journal of Community Services, 5(1), 107-113. http://dx.doi.org/10.30659/ijocs.5.1.107-113

Wang, B., Xu, J., Jiang, S., Wang, Y., Zhu, J., & Zhang, Y. (2022). Combined Analysis of Gut Microbiota and Plasma Metabolites Reveals the Effect of Red-Fleshed Apple Anthocyanin Extract on Dysfunction of Mice Reproductive System Induced by Busulfan. Frontiers in nutrition, 8, 802352. https://doi.org/10.3389/fnut.2021.802352

Widowati, W. and Rinata, E. (2020) "Sistem Kardiovaskuler", in Hanum, S. M. F.(ed.) Buku Ajar Anatomi. I. Jawa Timur: Umisda Press, pp. 1–72. https://www.academia.edu/98607206/ASUHAN_KEBIDANAN_KEHAMILAN

Wijayanti, W., Indah Kurniati, I., & Munaaya Fitriyya, M. (2022). Penanganan Anemia Dengan Tepung Daun Kelor. Surakarta: Yuma Pustaka. http://repository.itspku.ac.id/id/eprint/282

Wiji, R. N. and Fitri, I. (2021) "Gizi Seimbang Bagi Wanita Hamil", in BUku AjarGizi Dan Upaya Pembentukan Keluarga Sadar Gizi. I. Yogyakarta: Gosyen, pp. 86–89. http://repository.univrab.ac.id/88/1/E%20BOOK%20GIZI%20keluarga%20%282%29.pdf

Wasonowati, C., & Pradana, Y. W. (2023, December). Pertumbuhan Akar dan TajukBibit Kelor (Moringa oleifera Lamk) pada Komposisi Media dan Bahan Tanam yang Berbeda. In Prosiding Seminar Nasional Perhimpunan Hortikultura Indonesia (Vol. 1, No. 2). https://epros.perhorti.id/index.php/epros/article/view/81

WHO 2023. Global Health Observatory Data Repository|By Category|Anaemia in Pregnant Women—Estimates by Country. Available online: https://apps.who.int/gho/data/view.main.ANAEMIAWOMENPWREG

WHO 2023 “Anaemia ” Retrieved June 12, 2023 https //www who int/health-topics/anaemia

WHO (World Health Organization). (2022). Trend in Maternal Mortality. WHO, UNICEF, UNFPA : World Bank Group

World Health Organization. (2019). Periconceptional folic acid supplementation toprevent neural tube defects. e-Library of Evidence for Nutrition Actions (eLENA). Diakses pada Oktober 31, 2022, dari https://www.who.int/elena/titles/folate_perico nceptional/en/

Winarti, S. (2021). Pemanfaatan Daun Kelor Untuk Peningkatan Gizi Snack Dan Kue Kering. Jurnal Abdimas Dan Ilmu Rekayasa, 1(2), 32–37. http://abiyasa.upnjatim.ac.id

Yalew, M., Adane, B., Damtie, Y., Kefale, B., Arefaynie, M., & Yasin, T. (2020). Trend and determinants of anemia change among pregnant and/or lactating women in Ethiopia: A multivariate decomposition analysis. PloS one, 15(11), e0241975. https://doi.org/10.1371/journal.pone.0241975

Yanti, A., & Syahri, A. (2021). Hubungan Pengetahuan Ibu Hamil Tentang Anemia Dengan Kepatuhan Mengkonsumsi Tablet Ferrous (Fe) Di Puskesmas JohanPahlawan Kabupaten Aceh Barat. BEST Journal (Biology Education, Sains and Technology), 4(2), 203-208. https://doi.org/10.30743/best.v4i2.4493

Yanti, V. D., Dewi, N. R., & Sari, S. A. (2023). Implementation Of Health Education About Anemia To Improve Knowledge Of Pregnant Women In The Work

Area Puskesmas Purwosari Metro In 2022. Jurnal Cendikia Muda, 3(4), 603-609. https://jurnal.akperdharmawacana.ac.id/index.php/JWC/article/view/510

Yin, L. N., Zhao, W., Hu, H. Q., Huang, A. Q., Chen, S. D., Song, B., Yang, Q., &Di, J. L. (2023). Zhonghua yu fang yi xue za zhi [Chinese journal of preventive medicine], 57(5), 736–740. https://doi.org/10.3760/cma.j.cn112150-20220627-00662

Younis, N., Khan, M. I., Zahoor, T., & Faisal, M. N. (2022). Phytochemical and antioxidant screening of Moringa oleifera for its utilization in the management of hepatic injury. Frontiers in Nutrition, 9, 1078896. https://doi.org/10.3389/fnut.2022.1078896

Yuandry, S., & Yuniarti, E. (2023). Moringa Leaf Extract as a Natural Material forAnemia Treatment: Literature Review. Jurnal Biologi Tropis, 23(4), 253- 259. http://dx.doi.org/10.29303/jbt.v23i4.5537

Yue, X. N., Wang, S., Yang, B., Feng, S. Y., Fu, R., Qu, C. H., & Li, Z. Y.(2023). Zhongguo Zhong yao za zhi = Zhongguo zhongyao zazhi = China journal of Chinese materia medica, 48(19), 5259–5270. https://doi.org/10.19540/j.cnki.cjcmm.20230630.401

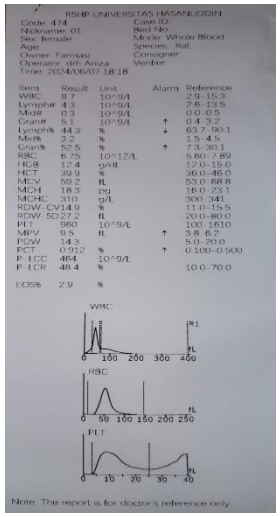
Zakiah, Z., Isnaniah, I., & Lestari, D. (2023). STUDI LITERATUR FAKTOR-FAKTOR YANG BERHUBUNGAN DENGAN KEJADIAN ANEMIA PADA IBU HAMIL. MMJ (Mahakam Midwifery Journal), 8(01), 24-52. https://doi.org/10.35963/mmj.v8i01.191

Data Excel Kadar *Hemoglobin*

No	BB_Pretest	Hb_Pretest	BB_Induksi	Hb_Induksi	Selisih_Hb_Pretest_Induksi	Persentase	BB_Postest	Hb_Postest	Selisih_Hb_Induksi_Postest	Persentase2
1	209	12.4	156	10.8	1.6	-12.90%	210	12.5	-1.7	15.74%
1	220	12.7	174	11	1.7	-13.39%	222	13.9	-2.9	26.36%
1	195	11.9	141	10.5	1.4	-11.76%	197	12	-1.5	14.29%
2	209	12.2	164	11.4	0.8	-6.56%	160	12.7	-1.3	11.40%
2	215	11.2	151	11.9	-0.7	6.25%	147	11.4	0.5	-4.20%
2	180	9.7	130	8.3	1.4	-14.43%	127	0	8.3	-100.00%
3	204	11.9	173	10.1	1.8	-15.13%	220	12.3	-2.2	21.78%
3	226	13	176	11.9	1.1	-8.46%	235	14.2	-2.3	19.33%
3	198	10.7	168	9.8	0.9	-8.41%	227	11.8	-2	20.41%
4	199	13.3	151	11.3	2	-15.04%	210	13	-1.7	15.04%
4	182	11.9	129	10.8	1.1	-9.24%	207	12.1	-1.3	12.04%
4	173	12.5	127	12.1	0.4	-3.20%	200	12.9	-0.8	6.61%
5	200	12.4	166	10.9	1.5	-12.10%	215	11.7	-0.8	7.34%
5	203	11.5	156	11.8	-0.3	2.61%	215	11.3	0.5	-4.24%
5	210	12.5	156	11.3	1.2	-9.60%	218	12.7	-1.4	12.39%

Keterangan:
1= Kelompok Positif
2= Kelompok Negatif
3= Kelompok Kapsul Moringa Oleifera (MO)
4= Kelompok Asam Folat (AF)
5= Kelompok MO+AF

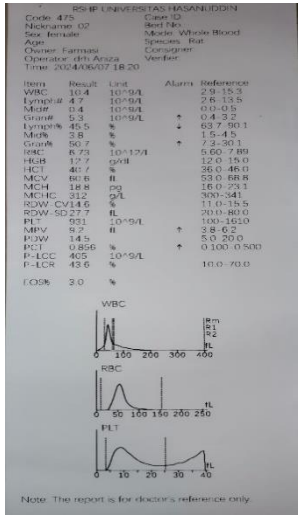
HASIL LABORATORIUM I


RSHP UNIVERSITAS HASANUDDIN
Code: 474 Case ID:
Nickname: 01 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:18

Item	Result	Unit	Alarm	Reference
WBC	9.7	10^9/L		2.9-15.3
Lymph#	4.3	10^9/L		2.6-13.5
Mid#	0.3	10^9/L		0.0-0.5
Gran#	5.1	10^9/L		0.4-3.2
Lymph%	44.3	%	↓	63.7-90.1
Mid%	3.2	%		1.5-4.5
Gran%	52.5	%	↑	7.3-30.1
RBC	6.75	10^12/L		5.60-7.89
HGB	17.4	g/dl		12.0-15.0
HCT	39.9	%		36.0-46.0
MCV	59.2	fL		53.0-68.8
MCH	18.3	pg		16.0-23.1
MCHC	310	g/L		300-341
RDW-CV14.9		%		11.0-15.5
RDW-SD27.2		fL		20.0-80.0
PLT	960	10^9/L	↑	100-1610
MPV	9.5	fL	↑	3.8-6.2
PDW	14.3		↑	5.0-20.0
PCT	0.912	%	↑	0.100-0.500
P-LCC	464	10^9/L		
P-LCR	48.4	%		10.0-70.0

EOS% 2.9 %

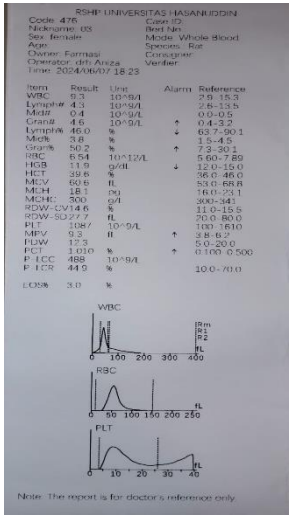
Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 475 Case ID:
Nickname: 02 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:20

Item	Result	Unit	Alarm	Reference
WBC	10.4	10^9/L		2.9-15.3
Lymph#	4.7	10^9/L		2.6-13.5
Mid#	0.4	10^9/L		0.0-0.5
Gran#	5.3	10^9/L	↑	0.4-3.2
Lymph%	45.5	%	↓	63.7-90.1
Mid%	3.8	%		1.5-4.5
Gran%	50.7	%	↑	7.3-30.1
RBC	6.73	10^12/L		5.60-7.89
HGB	12.7	g/dl		12.0-15.0
HCT	40.7	%		36.0-46.0
MCV	60.6	fL		53.0-68.8
MCH	18.8	pg		16.0-23.1
MCHC	312	g/L		300-341
RDW-CV14.6		%		11.0-15.5
RDW-SD27.7		fL		20.0-80.0
PLT	951	10^9/L		100-1610
MPV	9.2	fL	↑	3.8-6.2
PDW	14.5		↑	5.0-20.0
PCT	0.856	%	↑	0.100-0.500
P-LCC	465	10^9/L		
P-LCR	43.6	%		10.0-70.0

EOS% 3.0 %

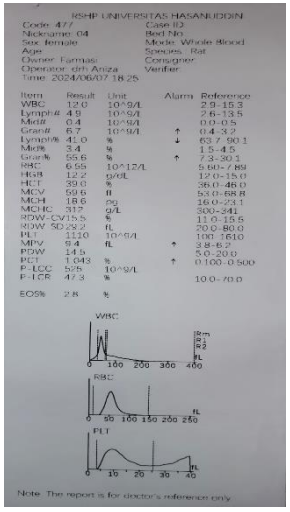
Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 476 Case ID:
Nickname: 03 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:23

Item	Result	Unit	Alarm	Reference
WBC	8.3	10^9/L		2.9-15.3
Lymph#	4.3	10^9/L		2.6-13.5
Mid#	0.4	10^9/L		0.0-0.5
Gran#	4.6	10^9/L	↑	0.4-3.2
Lymph%	46.0	%	↓	63.7-90.1
Mid%	3.8	%		1.5-4.5
Gran%	50.2	%	↑	7.3-30.1
RBC	6.54	10^12/L		5.60-7.89
HGB	11.9	g/dl	↓	12.0-15.0
HCT	39.6	%		36.0-46.0
MCV	60.6	fL		53.0-68.8
MCH	18.1	pg		16.0-23.1
MCHC	300	g/L		300-341
RDW-CV14.6		%		11.0-15.5
RDW-SD27.7		fL		20.0-80.0
PLT	1087	10^9/L		100-1610
MPV	9.3	fL	↑	3.8-6.2
PDW	17.3			5.0-20.0
PCT	1.010	%	↑	0.100-0.500
P-LCC	488	10^9/L		
P-LCR	44.9	%		10.0-70.0

EOS% 3.0 %

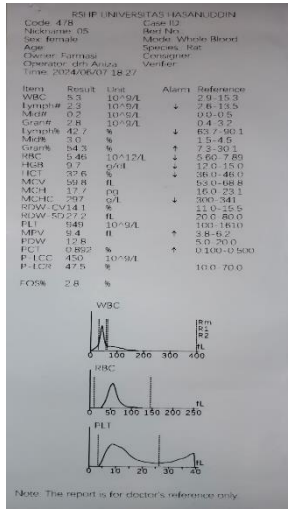
Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 477 Case ID:
Nickname: 04 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:25

Item	Result	Unit	Alarm	Reference
WBC	12.0	10^9/L		2.9-15.3
Lymph#	4.9	10^9/L		2.6-13.5
Mid#	0.4	10^9/L		0.0-0.5
Gran#	6.7	10^9/L	↑	0.4-3.2
Lymph%	41.0	%	↓	63.7-90.1
Mid%	3.4	%		1.5-4.5
Gran%	55.6	%	↑	7.3-30.1
RBC	6.55	10^12/L		5.60-7.89
HGB	12.2	g/dL		12.0-15.0
HCT	39.0	%		36.0-46.0
MCV	59.6	fl		53.0-68.8
MCH	18.6	pg		16.0-23.1
MCHC	312	g/L		300-341
RDW-CV15.5		%		11.0-15.5
RDW-SD29.2		fL		20.0-80.0
PLT	1120	10^9/L		100-1610
MPV	9.4	fL	↑	3.8-6.2
PDW	14.5			5.0-20.0
PCT	1.043	%	↑	0.100-0.500
P-LCC	525	10^9/L		
P-LCR	47.3	%		10.0-70.0

EOS% 2.8 %

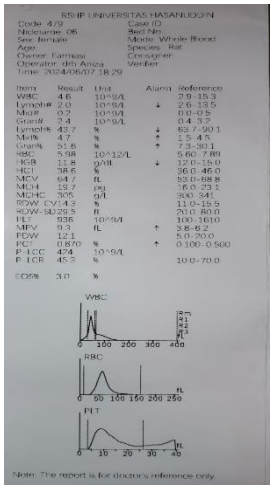
Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 478 Case ID:
Nickname: 05 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:27

Item	Result	Unit	Alarm	Reference
WBC	5.3	10^9/L		2.9-15.3
Lymph#	2.3	10^9/L	↓	2.6-13.5
Mid#	0.2	10^9/L	↓	0.0-0.5
Gran#	2.8	10^9/L	↓	0.4-3.2
Lymph%	42.7	%	↓	63.7-90.1
Mid%	3.0	%		1.5-4.5
Gran%	54.3	%	↑	7.3-30.1
RBC	5.46	10^12/L	↓	5.60-7.89
HGB	9.7	g/dl	↓	12.0-15.0
HCT	32.6	%	↓	36.0-46.0
MCV	59.8	fL		53.0-68.8
MCH	17.7	pg		16.0-23.1
MCHC	297	g/L	↓	300-341
RDW-CV14.1		%		11.0-15.5
RDW-SD27.2		fL		20.0-80.0
PLT	849	10^9/L		100-1610
MPV	9.4	fl	↑	3.8-6.2
PDW	12.6			5.0-20.0
PCT	0.892	%	↑	0.100-0.500
P-LCC	450	10^9/L		
P-LCR	47.5	%		10.0-70.0

EOS% 2.8 %

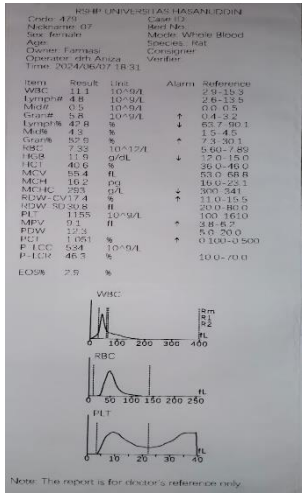
Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 479 Case ID:
Nickname: 06 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:29

Item	Result	Unit	Alarm	Reference
WBC	4.6	10^9/L		2.9-15.3
Lymph#	2.0	10^9/L	↓	2.6-13.5
Mid#	0.2	10^9/L		0.0-0.5
Gran#	2.4	10^9/L	↓	0.4-3.2
Lymph%	43.7	%	↓	63.7-90.1
Mid%	4.7	%	↑	1.5-4.5
Gran%	51.6	%	↑	7.3-30.1
RBC	5.98	10^12/L		5.60-7.89
HGB	11.8	g/dl	↓	12.0-15.0
HCT	38.6	%		36.0-46.0
MCV	64.7	fL		53.0-68.8
MCH	19.7	pg		16.0-23.1
MCHC	305	g/L		300-341
RDW-CV14.3		%		11.0-15.5
RDW-SD29.5		fl		20.0-80.0
PLT	936	10^9/L		100-1610
MPV	9.3	fL	↑	3.8-6.2
PDW	12.3			5.0-20.0
PCT	0.870	%	↑	0.100-0.500
P-LCC	474	10^9/L		
P-LCR	45.3	%		10.0-70.0

EOS% 3.0 %

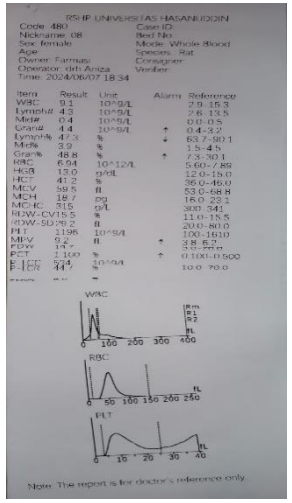
Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 479 Case ID:
Nickname: 07 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:31

Item	Result	Unit	Alarm	Reference
WBC	11.1	10^9/L		2.9-15.3
Lymph#	4.8	10^9/L		2.6-13.5
Mid#	0.5	10^9/L		0.0-0.5
Gran#	5.8	10^9/L	↑	0.4-3.2
Lymph%	42.8	%	↓	63.7-90.1
Mid%	4.3	%		1.5-4.5
Gran%	52.6	%	↑	7.3-30.1
RBC	7.33	10^12/L		5.60-7.89
HGB	11.6	g/dL	↓	12.0-15.0
HCT	40.6	%		36.0-46.0
MCV	55.4	fL		53.0-68.8
MCH	16.2	pg		16.0-23.1
MCHC	293	g/L	↓	300-341
RDW-CV17.4		%	↑	11.0-15.5
RDW-SD30.8		fl		20.0-80.0
PLT	1155	10^9/L		100-1610
MPV	9.1	fl	↑	3.8-6.2
PDW	12.3			5.0-20.0
PCT	1.051	%	↑	0.100-0.500
P-LCC	534	10^9/L		
P-LCR	46.3	%		10.0-70.0

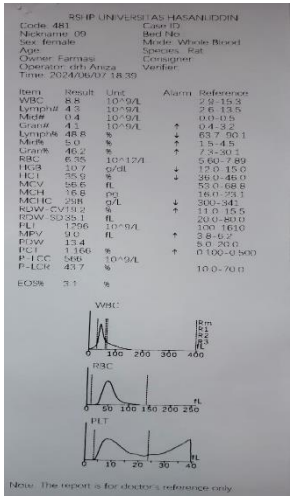
EOS% 2.9 %

Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 480 Case ID:
Nickname: 08 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:34

Item	Result	Unit	Alarm	Reference
WBC	9.1	10^9/L		2.9-15.3
Lymph#	4.3	10^9/L		2.6-13.5
Mid#	0.4	10^9/L		0.0-0.5
Gran#	4.4	10^9/L	↑	0.4-3.2
Lymph%	47.3	%	↓	63.7-90.1
Mid%	3.9	%		1.5-4.5
Gran%	48.8	%	↑	7.3-30.1
RBC	6.94	10^12/L		5.60-7.89
HGB	13.0	g/dL		12.0-15.0
HCT	41.2	%		36.0-46.0
MCV	59.5	fl		53.0-68.8
MCH	18.7	pg		16.0-23.1
MCHC	315	g/L		300-341
RDW-CV15.5		%		11.0-15.5
RDW-SD29.2		fl		20.0-80.0
PLT	1196	10^9/L		100-1610
MPV	9.2	fl	↑	3.8-6.2
PDW	14.7			5.0-20.0
PCT	1.100	%	↑	0.100-0.500
P-LCC	574	10^9/L		
P-LCR	44.7	%		10.0-70.0

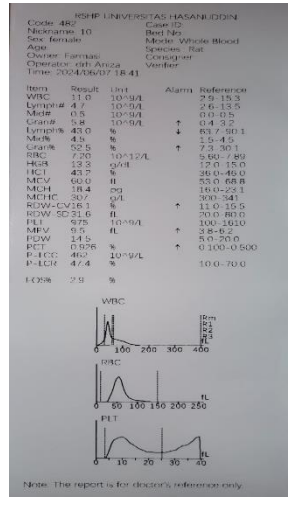
Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 481 Case ID:
Nickname: 09 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:39

Item	Result	Unit	Alarm	Reference
WBC	8.8	10^9/L		2.9-15.3
Lymph#	4.3	10^9/L		2.6-13.5
Mid#	0.4	10^9/L		0.0-0.5
Gran#	4.1	10^9/L	↑	0.4-3.2
Lymph%	48.8	%	↓	63.7-90.1
Mid%	5.0	%	↑	1.5-4.5
Gran%	46.2	%	↓	7.3-30.1
RBC	6.55	10^12/L		5.60-7.89
HGB	10.7	g/dl	↓	12.0-15.0
HCT	35.9	%	↓	36.0-46.0
MCV	54.6	fL		53.0-68.8
MCH	16.8	pg		16.0-23.1
MCHC	298	g/L	↓	300-341
RDW-CV19.2		%	↑	11.0-15.5
RDW-SD35.1		fL		20.0-80.0
PLT	1796	10^9/L		100-1610
MPV	9.0	fL	↑	3.8-6.2
PDW	13.4			5.0-20.0
PCT	1.166	%	↑	0.100-0.500
P-LCC	566	10^9/L		
P-LCR	43.7	%		10.0-70.0

EOS% 3.1 %

Note: The report is for doctor's reference only.


RSHP UNIVERSITAS HASANUDDIN
Code: 482 Case ID:
Nickname: 10 Bed No.:
Sex: female Mode: Whole Blood
Age: Species: Rat
Owner: Farmasi Consigner:
Operator: drh Aniza Verifier:
Time: 2024/06/07 18:41

Item	Result	Unit	Alarm	Reference
WBC	11.0	10^9/L		2.9-15.3
Lymph#	4.7	10^9/L		2.6-13.5
Mid#	0.5	10^9/L		0.0-0.5
Gran#	5.8	10^9/L	↑	0.4-3.2
Lymph%	43.0	%	↓	63.7-90.1
Mid%	4.5	%	↑	1.5-4.5
Gran%	52.5	%	↑	7.3-30.1
RBC	7.20	10^12/L		5.60-7.89
HGB	13.2	g/dl		12.0-15.0
HCT	43.7	%		36.0-46.0
MCV	60.6	fl		53.0-68.8
MCH	18.4	pg		16.0-23.1
MCHC	302	g/L		300-341
RDW-CV16.1		%	↑	11.0-15.5
RDW-SD31.6		fL		20.0-80.0
PLT	975	10^9/L		100-1610
MPV	9.5	fL	↑	3.8-6.2
PDW	14.5			5.0-20.0
PCT	0.926	%	↑	0.100-0.500
P-LCC	460	10^9/L		
P-LCR	47.4	%		10.0-70.0

EOS% 2.9 %

Note: The report is for doctor's reference only.

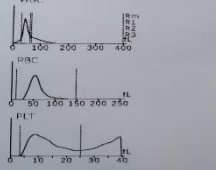
RSHP UNIVERSITAS HASANUDDIN

Code: 483
Nickname: 11
Sex: female
Age:
Owner: Farmasi
Operator: drh Aniza
Time: 2024/06/07 18:43

Case ID:
Bed No:
Mode: Whole Blood
Species: Rat
Consigner:
Verifier:

Item	Result	Unit	Alarm	Reference
WBC	9.3	10^9/L		2.9-15.3
Lymph#	4.7	10^9/L		2.6-13.5
Mid#	0.4	10^9/L		0.0-0.5
Gran#	4.2	10^9/L	↑	0.4-3.2
Lymph%	50.4	%	↓	63.7-90.1
Mid%	4.5	%		1.5-4.5
Gran%	45.1	%	↑	7.3-30.1
RBC	6.69	10^12/L		5.60-7.89
HGB	11.9	g/dL	↓	12.0-15.0
HCT	39.8	%		36.0-46.0
MCV	59.5	fL		53.0-68.8
MCH	17.7	pg		16.0-23.1
MCHC	298	g/l	↓	300-341
RDW-CV%2		%	↑	11.0-15.5
RDW-SD31.1		fl		20.0-80.0
PLT	1106	10^9/L		100-1610
MPV	9.5	fL	↑	3.8-6.2
PDW	14.8		↑	5.0-20.0
PCT	1.050	%	↑	0.100-0.500
P-LCC	544	10^9/L		
P-LCR	49.2	%		10.0-70.0

EO5% 3.7 %



Note: The report is for doctor's reference only.

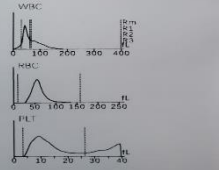
RSHP UNIVERSITAS HASANUDDIN

Code: 484
Nickname: 12
Sex: female
Age:
Owner: Farmasi
Operator: drh Aniza
Time: 2024/06/07 18:45

Case ID:
Bed No:
Mode: Whole Blood
Species: Rat
Consigner:
Verifier:

Item	Result	Unit	Alarm	Reference
WBC	15.9	10^9/L	↑	2.9-15.3
Lymph#	6.5	10^9/L		2.6-13.5
Mid#	0.8	10^9/L	↑	0.0-0.5
Gran#	8.6	10^9/L	↑	0.4-3.2
Lymph%	40.6	%	↓	63.7-90.1
Mid%	4.7	%	↑	1.5-4.5
Gran%	54.7	%	↑	7.3-30.1
RBC	6.90	10^12/L		5.60-7.89
HGB	12.5	g/dL		12.0-15.0
HCT	40.3	%		36.0-46.0
MCV	62.0	fL		53.0-68.8
MCH	19.2	pg		16.0-23.1
MCHC	310	g/L		300-341
RDW-CV14.9		%		11.0-15.5
RDW-SD78.6		fl		20.0-80.0
PLT	1063	10^9/L		100-1610
MPV	9.7	fL	↑	3.8-6.2
PDW	10.8			5.0-20.0
PCT	0.977	%	↑	0.100-0.500
P-LCC	461	10^9/L		
P-LCR	43.7	%		10.0-70.0

EO5% 2.9 %



Note: The report is for doctor's reference only.

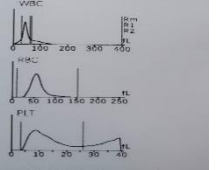
RSHP UNIVERSITAS HASANUDDIN

Code: 485
Nickname: 14
Sex: female
Age:
Owner: Farmasi
Operator: drh Aniza
Time: 2024/06/07 18:48

Case ID:
Bed No:
Mode: Whole Blood
Species: Rat
Consigner:
Verifier:

Item	Result	Unit	Alarm	Reference
WBC	6.3	10^9/L		2.9-15.3
Lymph#	3.4	10^9/L		2.6-13.5
Mid#	0.2	10^9/L		0.0-0.5
Gran#	2.7	10^9/L		0.4-3.2
Lymph%	54.1	%	↓	63.7-90.1
Mid%	3.2	%		1.5-4.5
Gran%	42.8	%	↑	7.3-30.1
RBC	6.25	10^12/L		5.60-7.89
HGB	11.8	g/dL	↓	12.0-15.0
HCT	38.5	%		36.0-46.0
MCV	61.7	fl		53.0-68.8
MCH	18.8	pg		16.0-23.1
MCHC	306	g/L		300-341
RDW-CV15.7		%	↑	11.0-15.5
RDW-SD30.1		fl		20.0-80.0
PLT	1032	10^9/L		100-1610
MPV	9.4	fl	↑	3.8-6.2
PDW	14.9			5.0-20.0
PCT	0.970	%	↑	0.100-0.500
P-LCC	479	10^9/L		
P-LCR	46.4	%		10.0-70.0

EO5% 3.2 %



Note: The report is for doctor's reference only.

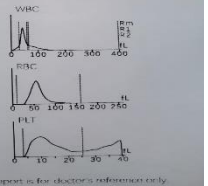
RSHP UNIVERSITAS HASANUDDIN

Code: 487
Nickname: 15
Sex: female
Age:
Owner: Farmasi
Operator: drh Aniza
Time: 2024/06/07 18:50

Case ID:
Bed No:
Mode: Whole Blood
Species: Rat
Consigner:
Verifier:

Item	Result	Unit	Alarm	Reference
WBC	11.2	10^9/L		2.9-15.3
Lymph#	5.4	10^9/L		2.6-13.5
Mid#	0.5	10^9/L		0.0-0.5
Gran#	5.3	10^9/L	↑	0.4-3.2
Lymph%	48.0	%	↓	63.7-90.1
Mid%	4.3	%		1.5-4.5
Gran%	47.7	%	↑	7.3-30.1
RBC	6.61	10^12/L		5.60-7.89
HGB	12.5	g/dL		12.0-15.0
HCT	40.9	%		36.0-46.0
MCV	62.0	fL		53.0-68.8
MCH	18.9	pg		16.0-23.1
MCHC	305	g/l		300-341
RDW-CV15.8		%	↑	11.0-15.5
RDW-SD30.8		fL		20.0-80.0
PLT	988	10^9/L		100-1610
MPV	9.5	fl	↑	3.8-6.2
PDW	14.5			5.0-20.0
PCT	0.935	%	↑	0.100-0.500
P-LCC	473	10^9/L		
P-LCR	48.1	%		10.0-70.0

EO5% 4.1 %



Note: The report is for doctor's reference only.

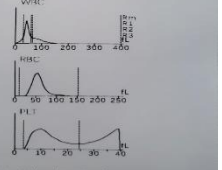
RSHP UNIVERSITAS HASANUDDIN

Code: 488
Nickname: 13
Sex: female
Age:
Owner: Farmasi
Operator: drh Aniza
Time: 2024/06/07 18:46

Case ID:
Bed No:
Mode: Whole Blood
Species: Rat
Consigner:
Verifier:

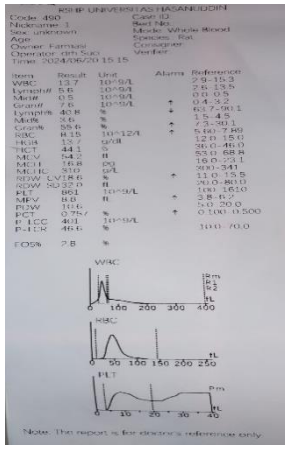
Item	Result	Unit	Alarm	Reference
WBC	7.3	10^9/L		2.9-15.3
Lymph#	3.4	10^9/L		2.6-13.5
Mid#	0.3	10^9/L		0.0-0.5
Gran#	3.6	10^9/L	↑	0.4-3.2
Lymph%	45.9	%	↓	63.7-90.1
Mid%	4.2	%		1.5-4.5
Gran%	49.9	%	↑	7.3-30.1
RBC	6.75	10^12/L		5.60-7.89
HGB	12.4	g/dL		12.0-15.0
HCT	40.8	%		36.0-46.0
MCV	59.9	fL		53.0-68.8
MCH	18.4	pg		16.0-23.1
MCHC	307	g/L		300-341
RDW-CV16.8		%	↑	11.0-15.5
RDW-SD31.1		fL		20.0-80.0
PLT	918	10^9/L		100-1610
MPV	9.4	fL	↑	3.8-6.2
PDW	13.8			5.0-20.0
PCT	0.862	%	↑	0.100-0.500
P-LCC	436	10^9/L		
P-LCR	47.6	%		10.0-70.0

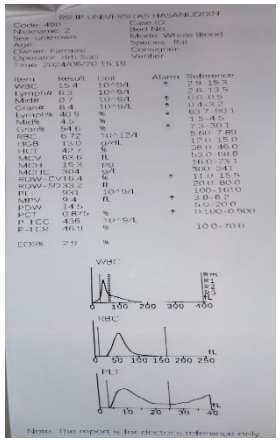
EO5% 3.0 %

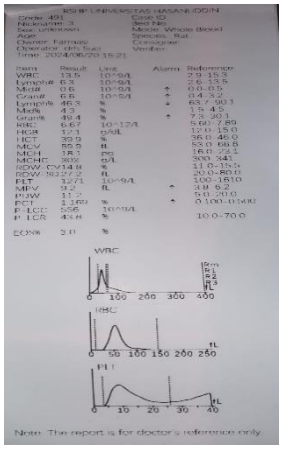


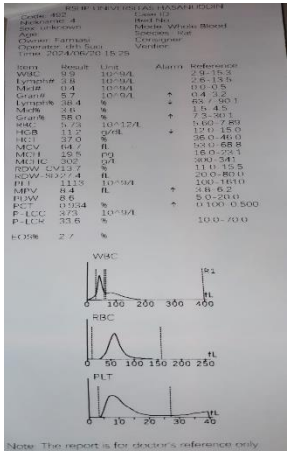
Note: The report is for doctor's reference only.

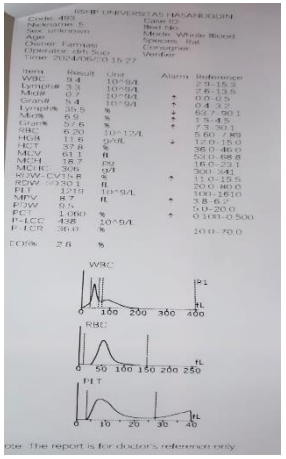
HASIL LABORATORIUM II

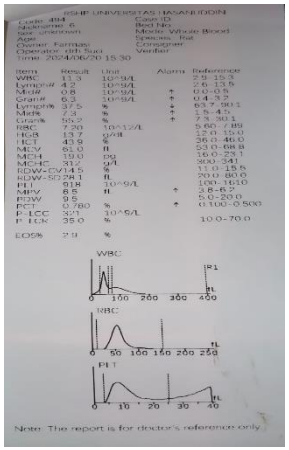


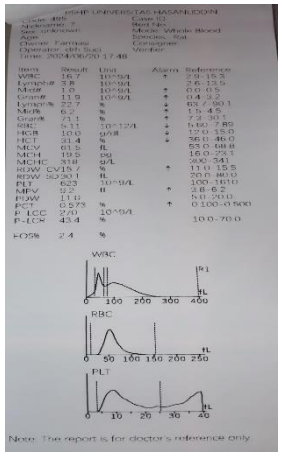


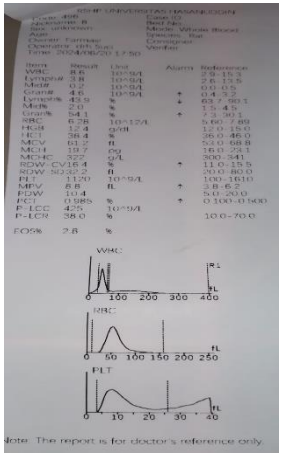


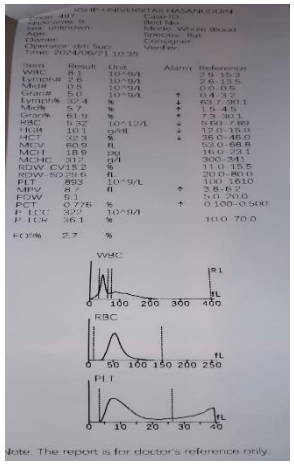


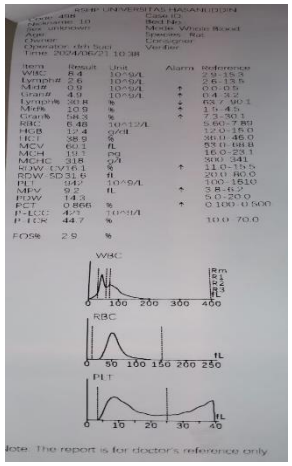


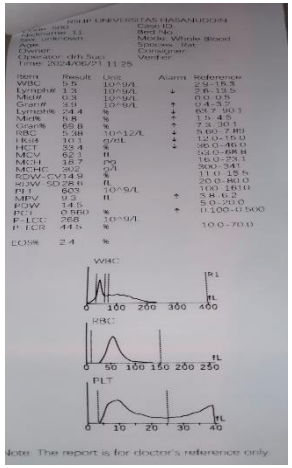


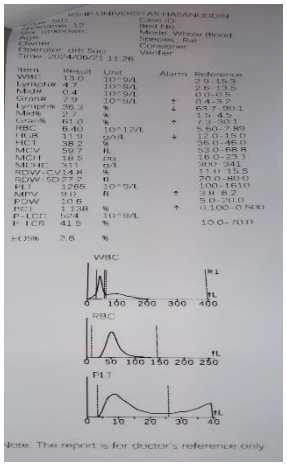


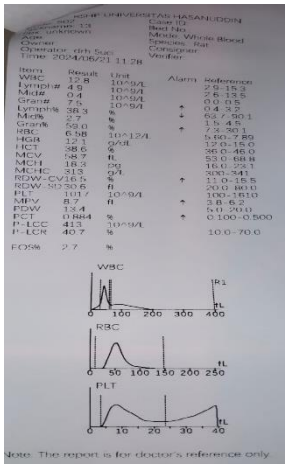


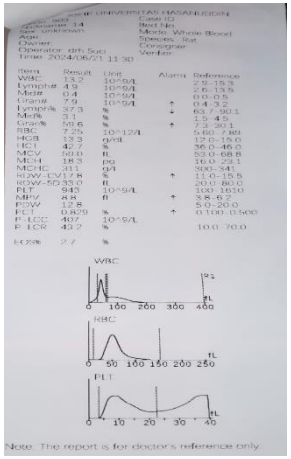


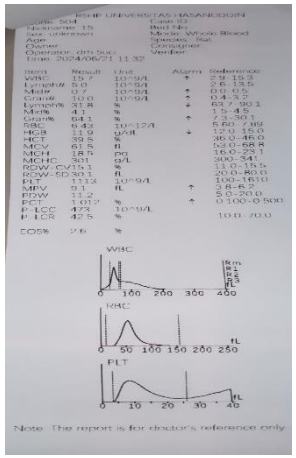



RSHP UNIVERSITAS HASANUDDIN
Case ID
Bed No.
Mode: Whole Blood
Species: Rat
Consigner
Verifier
Sex: unknown
Owner
Operator: dfh Suci
Time: 2024/06/21 11:25
Item Result Unit Alarm Reference
WBC 5.5 10^9/L 2.9-18.3
Lymph# 1.3 10^9/L ↓ 2.6-13.5
Mid# 0.3 10^9/L 0.0-0.5
Gran# 3.9 10^9/L ↑ 0.4-3.2
Lymph% 24.4 % ↓ 63.7-90.1
Mid% 5.8 % ↑ 1.5-4.5
Gran% 69.8 % ↑ 7.3-30.1
RBC 5.98 10^12/L ↓ 5.60-7.80
HGB 10.1 g/dL ↓ 12.0-15.0
HCT 33.4 % ↓ 36.0-46.0
MCV 62.1 fl 53.0-68.8
MCH 18.7 pg 16.0-23.1
MCHC 302 g/L 300-341
RDW-CV14.9 % 11.0-15.5
RDW-SD28.6 fl 20.0-80.0
PLT 603 10^9/L 100-1610
MPV 9.5 fl ↑ 3.8-6.2
PDW 14.5 5.0-20.0
PCT 0.560 % ↑ 0.100-0.500
P-LCC 268 10^9/L
P-LCR 44.5 % 10.0-70.0
EOS% 2.4 %
WBC
RBC
PLT
Note: The report is for doctor's reference only.

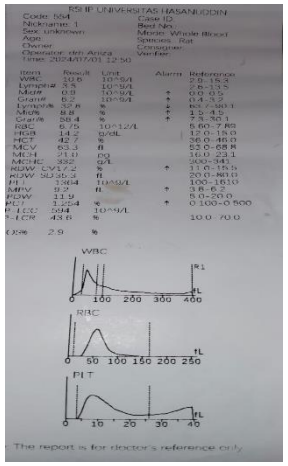

RSHP UNIVERSITAS HASANUDDIN
Case ID
Bed No.
Mode: Whole Blood
Species: Rat
Consigner
Verifier
Sex: unknown
Owner
Operator: dfh Suci
Time: 2024/06/21 11:26
Item Result Unit Alarm Reference
WBC 13.0 10^9/L 2.9-18.3
Lymph# 4.7 10^9/L 2.6-13.5
Mid# 0.4 10^9/L 0.0-0.5
Gran# 7.9 10^9/L ↑ 0.4-3.2
Lymph% 36.3 % ↓ 63.7-90.1
Mid% 2.7 % 1.5-4.5
Gran% 61.0 % ↑ 7.3-30.1
RBC 6.40 10^12/L 5.60-7.80
HGB 11.9 g/dL ↓ 12.0-15.0
HCT 38.2 % 36.0-46.0
MCV 59.7 fl 53.0-68.8
MCH 18.5 pg 16.0-23.1
MCHC 311 g/L 300-341
RDW-CV14.8 % 11.0-15.5
RDW-SD27.7 fl 20.0-80.0
PLT 1265 10^9/L 100-1610
MPV 9.0 fl ↑ 3.8-6.2
PDW 10.6 5.0-20.0
PCT 1.138 % ↑ 0.100-0.500
P-LCC 524 10^9/L
P-LCR 41.5 % 10.0-70.0
EOS% 2.6 %
WBC
RBC
PLT
Note: The report is for doctor's reference only.

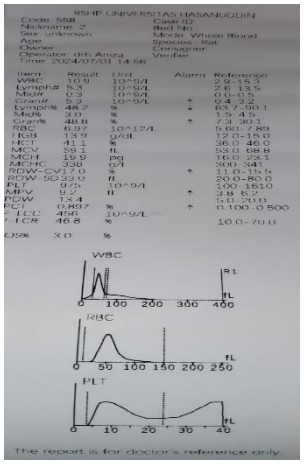

RSHP UNIVERSITAS HASANUDDIN
Case ID
Bed No.
Mode: Whole Blood
Species: Rat
Consigner
Verifier
Sex: unknown
Owner
Operator: dfh Suci
Time: 2024/06/21 11:28
Item Result Unit Alarm Reference
WBC 12.8 10^9/L 2.9-18.3
Lymph# 4.9 10^9/L 2.6-13.5
Mid# 0.4 10^9/L 0.0-0.5
Gran# 7.5 10^9/L ↑ 0.4-3.2
Lymph% 38.3 % ↓ 63.7-90.1
Mid% 2.7 % 1.5-4.5
Gran% 59.0 % ↑ 7.3-30.1
RBC 6.58 10^12/L 5.60-7.80
HGB 12.1 g/dL 12.0-15.0
HCT 38.6 % 36.0-46.0
MCV 58.7 fl 53.0-68.8
MCH 18.3 pg 16.0-23.1
MCHC 313 g/L 300-341
RDW-CV16.5 % ↑ 11.0-15.5
RDW-SD30.6 fl 20.0-80.0
PLT 1017 10^9/L 100-1610
MPV 8.7 fl ↑ 3.8-6.2
PDW 13.4 5.0-20.0
PCT 0.884 % ↑ 0.100-0.500
P-LCC 413 10^9/L
P-LCR 40.7 % 10.0-70.0
EOS% 2.7 %
WBC
RBC
PLT
Note: The report is for doctor's reference only.

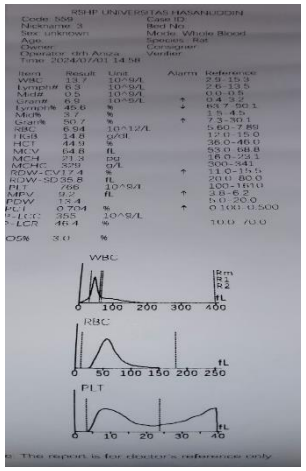

RSHP UNIVERSITAS HASANUDDIN
Case ID
Bed No.
Mode: Whole Blood
Species: Rat
Consigner
Verifier
Sex: unknown
Owner
Operator: dfh Suci
Time: 2024/06/21 11:30
Item Result Unit Alarm Reference
WBC 13.2 10^9/L 2.9-18.3
Lymph# 4.9 10^9/L 2.6-13.5
Mid# 0.4 10^9/L 0.0-0.5
Gran# 7.9 10^9/L ↑ 0.4-3.2
Lymph% 37.3 % ↓ 63.7-90.1
Mid% 3.1 % 1.5-4.5
Gran% 59.6 % ↑ 7.3-30.1
RBC 7.25 10^12/L 5.60-7.80
HGB 13.3 g/dL 12.0-15.0
HCT 42.7 % 36.0-46.0
MCV 58.8 fl 53.0-68.8
MCH 18.3 pg 16.0-23.1
MCHC 311 g/L 300-341
RDW-CV17.8 % ↑ 11.0-15.5
RDW-SD33.0 fl 20.0-80.0
PLT 943 10^9/L 100-1610
MPV 8.4 fl ↑ 3.8-6.2
PDW 13.8 5.0-20.0
PCT 0.829 % ↑ 0.100-0.500
P-LCC 407 10^9/L
P-LCR 43.2 % 10.0-70.0
EOS% 2.7 %
WBC
RBC
PLT
Note: The report is for doctor's reference only.

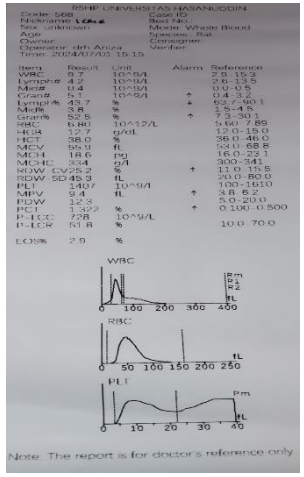

RSHP UNIVERSITAS HASANUDDIN
Case ID
Bed No.
Mode: Whole Blood
Species: Rat
Consigner
Verifier
Sex: unknown
Owner
Operator: dfh Suci
Time: 2024/06/21 11:32
Item Result Unit Alarm Reference
WBC 10.7 10^9/L ↑ 2.9-18.3
Lymph# 5.9 10^9/L 2.6-13.5
Mid# 0.7 10^9/L ↑ 0.0-0.5
Gran# 10.0 10^9/L ↑ 0.4-3.2
Lymph% 31.8 % ↓ 63.7-90.1
Mid% 4.1 % 1.5-4.5
Gran% 64.1 % ↑ 7.3-30.1
RBC 6.42 10^12/L 5.60-7.80
HGB 11.9 g/dL ↓ 12.0-15.0
HCT 39.5 % 36.0-46.0
MCV 61.5 fl 53.0-68.8
MCH 18.5 pg 16.0-23.1
MCHC 301 g/L 300-341
RDW-CV15.1 % 11.0-15.5
RDW-SD30.1 fl 20.0-80.0
PLT 1134 10^9/L 100-1610
MPV 9.1 fl ↑ 3.8-6.2
PDW 11.2 5.0-20.0
PCT 1.032 % ↑ 0.100-0.500
P-LCC 478 10^9/L
P-LCR 42.5 % 10.0-70.0
EOS% 2.6 %
WBC
RBC
PLT
Note: The report is for doctor's reference only.

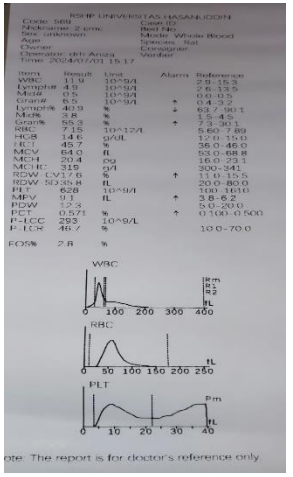
HASIL LABORATORIUM III

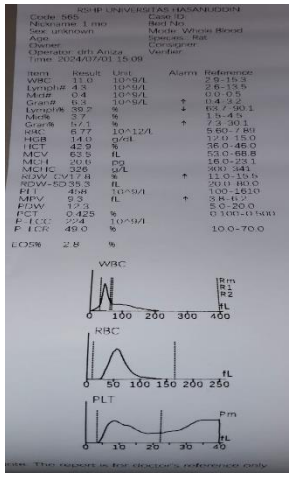


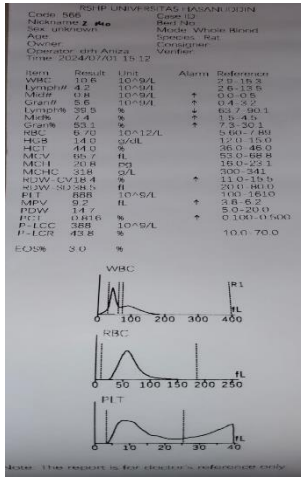


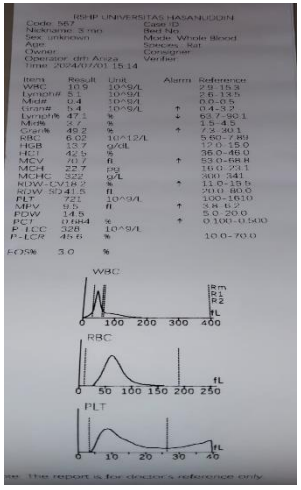


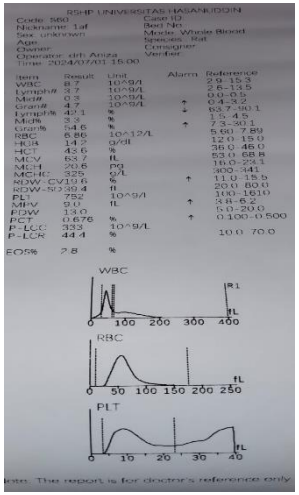


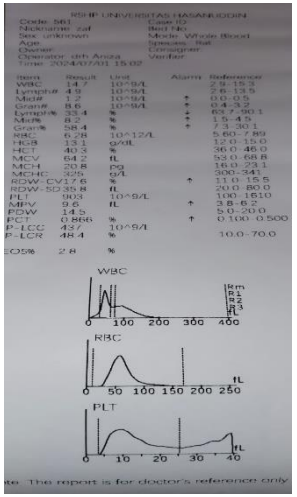








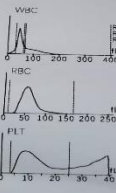




RSHP UNIVERSITAS HASANUDDIN

Code: 570 Case ID:
Nickname: 3 wk Bed No:
Sex: unknown Mode: Whole Blood
Age: Species: Rat
Owner: Consigner:
Operator: drh Aniza Verifier:
Time: 2024/07/01 15:19

Item	Result	Unit	Alarm	Reference
WBC	13.0	10^9/L		2.9-15.3
Lymph#	6.8	10^9/L		2.9-13.5
Mid#	0.6	10^9/L	↑	0.0-0.5
Gran#	6.5	10^9/L	↑	0.4-3.2
Lymph%	45.4	%	↓	63.7-90.1
Mid%	4.2	%	↓	1.5-4.5
Gran%	50.4	%	↑	7.3-30.1
RBC	6.75	10^12/L		5.60-7.89
HGB	13.6	g/dL		12.0-15.0
HCT	41.7	%		36.0-46.0
MCV	61.9	fL		53.0-68.8
MCH	20.1	pg		16.0-23.1
MCHC	326	g/L		300-341
RDW-CV	20.2	%	↑	11.0-15.5
RDW-SD	40.2	fL		20.0-80.0
PLT	1701	10^9/L		100-1610
MPV	9.3	fL	↑	3.8-6.2
PDW	14.5		↑	5.0-20.0
PCT	1.316	%	↑	0.100-0.500
P-LCC	552	10^9/L		
P-LCR	46.0	%		10.0-70.0
EOS%	3.0	%		

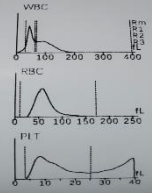


Note: The report is for doctor's reference only.

RSHP UNIVERSITAS HASANUDDIN

Code: 567 Case ID:
Nickname: 1 mo af Bed No:
Sex: unknown Mode: Whole Blood
Age: Species: Rat
Owner: Consigner:
Operator: drh Aniza Verifier:
Time: 2024/07/01 15:04

Item	Result	Unit	Alarm	Reference
WBC	11.7	10^9/L		2.9-15.3
Lymph#	4.1	10^9/L		2.9-13.5
Mid#	0.5	10^9/L	↑	0.0-0.5
Gran#	7.1	10^9/L	↑	0.4-3.2
Lymph%	34.7	%	↓	63.7-90.1
Mid%	4.1	%	↓	1.5-4.5
Gran%	61.2	%	↑	7.3-30.1
RBC	6.25	10^12/L		5.60-7.89
HGB	13.4	g/dL		12.0-15.0
HCT	40.6	%		36.0-46.0
MCV	65.0	fL		53.0-68.8
MCH	21.4	pg		16.0-23.1
MCHC	330	g/L		300-341
RDW-CV	18.0	%	↑	11.0-15.5
RDW-SD	58.9	fL		20.0-80.0
PLT	756	10^9/L		100-1610
MPV	9.8	fL	↑	3.8-6.2
PDW	14.4		↑	5.0-20.0
PCT	0.725	%	↑	0.100-0.500
P-LCC	361	10^9/L		
P-LCR	48.9	%		10.0-70.0
EOS%	2.7	%		

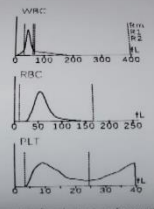


Note: The report is for doctor's reference only.

RSHP UNIVERSITAS HASANUDDIN

Code: 565 Case ID:
Nickname: 2 mo af Bed No:
Sex: unknown Mode: Whole Blood
Age: Species: Rat
Owner: Consigner:
Operator: drh Aniza Verifier:
Time: 2024/07/01 15:08

Item	Result	Unit	Alarm	Reference
WBC	9.9	10^9/L		2.9-15.3
Lymph#	5.0	10^9/L		2.9-13.5
Mid#	0.3	10^9/L		0.0-0.5
Gran#	4.6	10^9/L	↑	0.4-3.2
Lymph%	50.1	%	↓	63.7-90.1
Mid%	3.0	%	↓	1.5-4.5
Gran%	46.9	%	↑	7.3-30.1
RBC	6.59	10^12/L		5.60-7.89
HGB	13.7	g/dL		12.0-15.0
HCT	41.5	%		36.0-46.0
MCV	63.1	fL		53.0-68.8
MCH	20.7	pg		16.0-23.1
MCHC	330	g/L		300-341
RDW-CV	18.0	%	↑	11.0-15.5
RDW-SD	51.2	fL		20.0-80.0
PLT	790	10^9/L		100-1610
MPV	9.4	fL	↑	3.8-6.2
PDW	14.8		↑	5.0-20.0
PCT	0.742	%	↑	0.100-0.500
P-LCC	377	10^9/L		
P-LCR	47.8	%		10.0-70.0
EOS%	3.1	%		

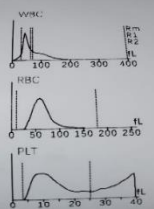


Note: The report is for doctor's reference only.

RSHP UNIVERSITAS HASANUDDIN

Code: 564 Case ID:
Nickname: 3 mo af Bed No:
Sex: unknown Mode: Whole Blood
Age: Species: Rat
Owner: Consigner:
Operator: drh Aniza Verifier:
Time: 2024/07/01 15:07

Item	Result	Unit	Alarm	Reference
WBC	11.8	10^9/L		2.9-15.3
Lymph#	5.0	10^9/L		2.9-13.5
Mid#	0.3	10^9/L		0.0-0.5
Gran#	5.8	10^9/L	↑	0.4-3.2
Lymph%	44.0	%	↓	63.7-90.1
Mid%	4.5	%		1.5-4.5
Gran%	51.5	%	↑	7.3-30.1
RBC	6.12	10^12/L		5.60-7.89
HGB	13.4	g/dL		12.0-15.0
HCT	40.7	%		36.0-46.0
MCV	66.6	fL		53.0-68.8
MCH	21.8	pg		16.0-23.1
MCHC	329	g/L		300-341
RDW-CV	19.3	%	↑	11.0-15.5
RDW-SD	41.3	fL		20.0-80.0
PLT	651	10^9/L		100-1610
MPV	9.6	fL	↑	3.8-6.2
PDW	14.3		↑	5.0-20.0
PCT	0.624	%	↑	0.100-0.500
P-LCC	317	10^9/L		
P-LCR	48.7	%		10.0-70.0
EOS%	3.0	%		



Note: The report is for doctor's reference only.

Tests of Normality

	Kelompok	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Pretest	Positif	.232	3	.	.980	3	.726
	Negatif	.260	2	.			
	Kapsul MO	.178	3	.	.999	3	.952
	AF	.204	3	.	.993	3	.843
	Kapsul MO+AF	.337	3	.	.855	3	.253
Induksi	positif	.200	3	.	.995	3	.862
	Negatif	.260	2	.			
	Kapsul MO	.353	3	.	.824	3	.174
	AF	.337	3	.	.855	3	.253
	Kapsul MO+AF	.224	3	.	.984	3	.762
Postest	positif	.253	3	.	.964	3	.637
	Negatif	.260	2	.			
	Kapsul MO	.385	3	.	.750	3	.000
	AF	.191	3	.	.997	3	.900
	Kapsul MO+AF	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Tests of Homogeneity

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Pretest	positif	3	12.333	.4041	.2333	11.329	13.337	11.9	12.7
	Negatif	3	11.233	1.3429	.7753	7.897	14.569	9.7	12.2
	Kapsul MO	3	11.867	1.1504	.6642	9.009	14.724	10.7	13.0
	AF	3	12.567	.7024	.4055	10.822	14.311	11.9	13.3
	Kapsul MO+AF	3	12.233	.3786	.2186	11.293	13.174	11.8	12.5
	Total	15	12.047	.8903	.2299	11.554	12.540	9.7	13.3
Induksi	positif	3	12.933	.8021	.4631	10.941	14.926	12.1	13.7
	Negatif	3	11.233	1.1504	.6642	8.376	14.091	10.1	12.4
	Kapsul MO	3	11.367	1.1015	.6360	8.630	14.103	10.1	12.1
	AF	3	12.433	.7572	.4372	10.552	14.314	11.9	13.3
	Kapsul MO+AF	3	13.133	1.1590	.6692	10.254	16.013	11.9	14.2
	Total	15	12.220	1.1791	.3044	11.567	12.873	10.1	14.2
Postest	positif	3	13.633	.5508	.2646	13.162	15.438	13.9	14.8
	Negatif	2	13.500	.1732	.9500	1.579	25.721	12.7	14.6
	Kapsul MO	3	14.300	.4583	.1000	13.470	14.330	13.7	14.0
	AF	3	13.900	.1732	.3180	12.265	15.001	13.1	14.2
	Kapsul MO+AF	3	13.650	1.3435	.1000	13.070	13.930	13.4	13.7
	Total	14	13.807	.5636	.1506	13.482	14.133	12.7	14.8

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Pretest	1.834	4	10	.199
Induksi	.251	4	10	.903
Postest	8.115	4	9	.005

Mann-Whitney Test

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Pretest	positif	3	3.83	11.50
	Kapsul MO+AF	3	3.17	9.50
	Total	6		
Induksi	positif	3	3.33	10.00
	Kapsul MO+AF	3	3.67	11.00
	Total	6		
Postest	positif	3	5.00	15.00
	Kapsul MO+AF	3	2.00	6.00
	Total	6		

Test Statistics[a]

	Pretest	Induksi	Postest
Mann-Whitney U	3.500	4.000	.000
Wilcoxon W	9.500	10.000	6.000
Z	-.443	-.218	-1.993
Asymp. Sig. (2-tailed)	.658	.827	.046
Exact Sig. [2*(1-tailed Sig.)]	.700[b]	1.000[b]	.100[b]

a. Grouping Variable: Kelompok
b. Not corrected for ties.

Kruskal-Wallis Test

Ranks

	Kelompok	N	Mean Rank
Pretest	positif	3	9.50
	Negatif	3	4.17
	Kapsul MO	3	7.33
	AF	3	10.83
	Kapsul MO+AF	3	8.17
	Total	15	
Induksi	positif	3	11.00
	Negatif	3	4.83
	Kapsul MO	3	4.83
	AF	3	8.50
	Kapsul MO+AF	3	10.83
	Total	15	
Postest	positif	3	11.17
	Negatif	2	7.00
	Kapsul MO	3	8.50
	AF	3	6.17
	Kapsul MO+AF	3	4.50
	Total	14	

Test Statistics[a,b]

	Pretest	Induksi	Postest
Chi-Square	3.865	5.702	4.391
df	4	4	4
Asymp. Sig.	.425	.223	.356

a. Kruskal Wallis Test
b. Grouping Variable: Kelompok

Dokumentasi








KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
KOMITE ETIK PENELITIAN FARMASI DAN KESEHATAN
FAKULTAS FARMASI
UNIVERSITAS HASANUDDIN
Sekretariat : Lantai 3 Fakultas Farmasi
JL.PERINTIS KEMERDEKAAN KAMPUS UNHAS TAMALANREA KM.10 MAKASSAR 90245,
CP: Nurhasni Hasan, PhD., Apt; No. Hp Sekretariat: 085179788835; email: kep.fakfarmasi@unhas.ac.id

LEMBAR KEPUTUSAN ETIK

Nomor : 771/UN4.17.8/KP.06.07/2024

Judul Penelitian : Pengaruh *Moringa Oleifera* (MO) dan *Asam Folat* (AF) terhadap Peningkatan Kadar Hemoglobin Tikus Betina

Nama Peneliti : Sulfika

Nomor Registrasi

U	H	0	1	2	4	0	4	0	5	3

A	Rangkuman penilaian oleh *reviewers*		
B	Perlu *full board*:	☐Ya	☑Tidak
	a. Ya (terus ke C)		
	b. Tidak (terus ke D)		
C	Catatan Rapat Etik (*Full Board*)	—	
	Tgl/bulan/tahun		
	Tindak lanjut/catatan rapat etik Dikirimkan kembali ke yang bersangkutan dengan tembusan kepimpinan instansi		
D	Hasil Penilaian		
	☐	a. Disetujui	
	☑	b. Disetujui dengan revisi minor (lihat lembaran pertimbangan/saran /petunjuk)	
	☐	c. Disetujui dengan revisi mayor (lihat lembaran pertimbangan/saran/petunjuk)	
	☐	d. Ditunda untuk beberapa alasan (lihat lembaran pertimbangan/saran/petunjuk)	
	☐	e. Ditolak/tidak dapat disetujui (lihat lembaran pertimbangan/saran/petunjuk)	
E	Penugasan pengawasan jalannya penelitian di lapangan untuk yang berisiko sedang – berat, mengobservasi apakah ada penyimpangan etik (tulis nama anggota komisi etik yang ditunjuk oleh rapat): —		

Makassar, 22 Mei 2024

Ketua

Prof. Dr. Elly Wahyudin, DEA., Apt
NIP. 19560114 198601 2 001

Sekretaris

Nurhasni Hasan, M.Si., M.Pharm.Sc., Ph.D.,Apt
NIP. 19860116 201012 2 009

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
KOMITE ETIK PENELITIAN FARMASI DAN KESEHATAN
FAKULTAS FARMASI
UNIVERSITAS HASANUDDIN
Sekretariat : Lantai 3 Fakultas Farmasi
Jl. PERINTIS KEMERDEKAAN KAMPUS UNHAS TAMALANREA KM.10 MAKASSAR 90245.
CP: Nurhasni Hasan, PhD., Apt; No. Hp Sekretariat: 085179788835; email: kep.fakfarmasi@unhas.ac.id

REKOMENDASI PERSETUJUAN ETIK

Nomor : **771/UN4.17.8/KP.06.07/2024**

Tanggal : 22 Mei 2024

Dengan ini menyatakan bahwa protokol dan dokumen yang berhubungan dengan protokol berikut ini telah mendapatkan persetujuan etik:

No Protokol	UH012404053	No Sponsor	-
Peneliti Utama	Sulfika	Sponsor	-
Judul Peneliti	Pengaruh *Moringa Oleifera* (MO) dan *Asam Folat* (AF) terhadap Peningkatan Kadar Hemoglobin Tikus Betina		
No Versi Protokol	UH012404053	Tanggal Versi	-
No Versi PSP	-	Tanggal Versi	-
Tempat Penelitian	Laboratorium Biofarmasi Fakultas Farmasi Universitas Hasanuddin		
Jenis *Review*	☐ *Exempted* ☑ *Expedited* ☐ *Full Board*	Masa Berlaku Sampai -	Frekuensi *review* lanjutan -
Ketua Komite Etik Penelitian	Nama Prof. Dr. Elly Wahyudin, DEA., Apt	Tanda tangan	Tanggal 22 Mei 2024
Sekretaris Komite Etik Penelitian	Nama Nurhasni Hasan, M.Si., M.Pharm.Sc., Ph.D., Apt	Tanda tangan	Tanggal 22 Mei 2024

Kewajiban peneliti utama:

- Menyerahkan amandemen protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan laporan SAE ke komite etik dalam 24 jam dan dilengkapi dalam 7 hari dan lapor SUSAR dalam 72 jam setelah peneliti utama menerima laporan
- Menyerahkan laporan kemajuan (*progress report*) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (*protocol deviation/violation*)
- Mematuhi semua peraturan yang ditentukan