

## DAFTAR PUSTAKA

- Abd-allatif, S., Moghazy, H., Mahmoud, A., & Hamed, A. (2019). Effect of regular Exercise and iron injection on iron status of anemic obese male rats. *Sohag Medical Journal*, 0(0), 0–0. <https://doi.org/10.21608/smj.2019.16088.1043>
- ACOG. (2019). ACOG Practice Bulletin No. 212: Pregnancy and Heart Disease. In *Obstetrics & Gynecology* (Vol. 133, Issue 5). [https://journals.lww.com/greenjournal/Fulltext/2019/05000/ACOG\\_Practice\\_Bulletin\\_No\\_212\\_Pregnancy\\_and.40.aspx](https://journals.lww.com/greenjournal/Fulltext/2019/05000/ACOG_Practice_Bulletin_No_212_Pregnancy_and.40.aspx)
- Ahmed, S. M. U., Luo, L., Namani, A., Wang, X. J., & Tang, X. (2017). Nrf2 signaling pathway: Pivotal roles in inflammation. *Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease*, 1863(2), 585–597. <https://doi.org/https://doi.org/10.1016/j.bbadi.2016.11.005>
- Ambarish, V., Doreswamy, V., Narasipur, O. S., Kunnavil, R., & Srinivassamurthy, N. (2015). Effect of Yoga Practice on Level of Inflammatory Markers after moderate and Strenous Exercise. *Journal of Clinical and Diagnostic Research*, 9(6), 8–12. <https://doi.org/10.7869/JCDR/2015/12851.6021>
- Anderson, E., & Durstine, J. L. (2019). Physical activity, exercise, and chronic diseases: A brief review. *Sports Medicine and Health Science*, 1(1), 3–10. <https://doi.org/10.1016/j.smhs.2019.08.006>
- Anderson, E. R., & Shah, Y. M. (2013). Iron homeostasis in the liver. In *Compr Physiol* (Vol. 3, Issue 1). <https://doi.org/10.1002/cphy.c120016>
- AR, W., Arsyad, A., & Hamid, F. (2018). *Pengaruh Latihan Fisik Aerobik dan Anerobik terhadap Komponen Darah Perifer pada Mencit Jantan*. 5(3), 2018. <http://pasca.unhas.ac.id/jurnal/files/a92b14e597b08f7a7c43fb5b412e8b01.pdf>
- Arabin, B., & Stupin, J. H. (2014). Overweight and obesity before, during and after pregnancy. *Geburtshilfe Und Frauenheilkunde*, 74(7), 646–655. <https://doi.org/10.1055/s-0034-1368462>
- Arosio, P., Elia, L., & Poli, M. (2017). Ferritin, cellular iron storage and regulation. In *IUBMB Life* (Vol. 69, Issue 6, pp. 414–422). <https://doi.org/10.1002/iub.1621>
- S., & Shyken, J. (2016). Yoga in pregnancy. *Clinical Obstetrics & Gynecology*, 59(3), 600–612. <https://doi.org/10.1097/GRF.0000000000000210>



- Bah, A., Pasricha, S. R., Jallow, M. W., Sise, E. A., Wegmuller, R., Armitage, A. E., Drakesmith, H., Moore, S. E., & Prentice, A. M. (2017). Serum hepcidin concentrations decline during pregnancy and may identify iron deficiency: Analysis of a longitudinal pregnancy cohort in the Gambia. *Journal of Nutrition*, 147(6), 1131–1137. <https://doi.org/10.3945/jn.116.245373>
- Barbieri, E., & Sestili, P. (2012). Reactive Oxygen Species in Skeletal Muscle Signaling. *Journal of Signal Transduction*, 2012, 1–17. <https://doi.org/10.1155/2012/982794>
- Belya, I., Kucháriková, N., Górová, V., Kysenius, K., Hare, D. J., Crouch, P. J., Malm, T., Atalay, M., White, A. R., Liddell, J. R., & Kanninen, K. M. (2021). Regular physical exercise modulates iron homeostasis in the 5xfad mouse model of alzheimer's disease. *International Journal of Molecular Sciences*, 22(16). <https://doi.org/10.3390/ijms22168715>
- Buratti, P., Gammella, E., Rybinska, I., Cairo, G., & Recalcati, S. (2015). Recent advances in iron metabolism: Relevance for health, exercise, and performance. *Medicine and Science in Sports and Exercise*, 47(8), 1596–1604. <https://doi.org/10.1249/MSS.0000000000000593>
- C.Flynn, A., Begum, S., White, S. L., Dalrymple, K., Gill, C., A.Alwan, N., Kiely, M., Latunde-Dada, G., Bell, R., Briley, A. L., Nelson, S. M., Oteng-Ntim, E., Sandall, J., A.Sanders, T., Whitworth, M., M.Murray, D., C.Kenny, L., & Poston, L. (2018). Relationships between Maternal Obesity and Maternal and Neonatal Iron Status.pdf. *Nutrients*, 10(1000). <https://doi.org/10.3390/nu10081000>
- Camaschella, C., Nai, A., & Silvestri, L. (2020). Iron metabolism and iron disorders revisited in the hepcidin era. In *Haematologica* (Vol. 105, Issue 2, pp. 260–272). journal of the Ferrata-Storti Foundation. <https://doi.org/10.3324/haematol.2019.232124>
- Camaschella, C., & Pagani, A. (2018). Advances in understanding iron metabolism and its crosstalk with erythropoiesis. *British Journal of Haematology*, 182(4), 481–494. <https://doi.org/10.1111/bjh.15403>
- Carranque, G. A., Maldonado, E. F., Vera, F. M., Manzaneque, J. M., Blanca, M. J., Soriano, G., & Morell, M. (2012). Hematological and biochemical modulation in regular yoga practitioners. *Biomedical Research*, 23(2), 176–182.
- Cepeda-Lopez, A. C., Melse-Boonstra, A., Zimmermann, M. B., & Herter-Aeberli, I. (2015). In overweight and obese women, dietary iron absorption is reduced and the enhancement of iron absorption by citric acid is one-half that in normal-weight women1. *The American Journal of Clinical Nutrition*, 102(6), 1389–1397. <https://doi.org/10.3945/ajcn.114.099218>



- Cerqueira, É., Marinho, D. A., Neiva, H. P., & Lourenço, O. (2020). Inflammatory Effects of High and Moderate Intensity Exercise—A Systematic Review. *Frontiers in Physiology*, 10(January), 1–14. <https://doi.org/10.3389/fphys.2019.01550>
- Chanda, R. (2017). Hematological Modulation in Regular Practice of Yoga in Young Healthy Medical Students. *World Journal of Pharmacy and Pharmaceutical Sciences*, 6(8), 1701–1712. <https://doi.org/10.20959/wjpps20178-9817>
- Cheung, C., Bhimani, R., Wyman, J. F., Konczak, J., Zhang, L., Mishra, U., Terluk, M., Kartha, R. V., & Tuite, P. (2018). Effects of yoga on oxidative stress, motor function, and non-motor symptoms in Parkinson's disease: a pilot randomized controlled trial. *Pilot and Feasibility Studies*, 4(1), 162. <https://doi.org/10.1186/s40814-018-0355-8>
- Ciesla, B. (2007). An Approach to Interpreting Spirometry. In *American Family Physician* (Vol. 69, Issue 5).
- Clapp, J. F., Little, K. D., & Widness, J. A. (2003). Effect of maternal exercise and fetoplacental growth rate on serum erythropoietin concentrations. *American Journal of Obstetrics and Gynecology*, 188(4), 1021–1025. <https://doi.org/https://doi.org/10.1067/mob.2003.232>
- Collins, J. F., & Anderson, G. J. (2012). Molecular Mechanisms of Intestinal Iron Transport. In *Physiology of the Gastrointestinal Tract* (First Edit, Vol. 2, pp. 1921–1947). Elsevier Inc. <https://doi.org/10.1016/B978-0-12-382026-6.00071-3>
- Curtis, K., Weinrib, A., & Katz, J. (2012). Sistemic Review on Yoga For Pregnant women: Current Status and Future Directions. *Evidance-Based Complementary and Alternative Medicine*, 2012. <https://doi.org/10.1155/2012/715942>
- Dao, M. C., Sen, S., Iyer, C., Klebenov, D., & Meydani, S. N. (2013). Obesity during pregnancy and fetal iron status: Is hepcidin the link? *Journal of Perinatology*, 33(3), 177–181. <https://doi.org/10.1038/JP.2012.81>
- Denison, F. C., Roberts, K. A., Barr, S. M., & Norman, J. E. (2010). Obesity, pregnancy, inflammation, and vascular function. *Reproduction*, 140(3), 373–385. <https://doi.org/10.1530/REP-10-0074>



, D. M., Schulz, P. S., Berger, A. M., Case, A. J., Kupzyk, K. A., & s, A. C. (2019). Impact of Yoga on Inflammatory Biomarkers: A tematic Review. *Biological Research for Nursing*, 21(2), 198–209. <https://doi.org/10.1177/1099800418820162>

- Docherty, S., Harley, R., McAuley, J. J., Crowe, L. A. N., Pedret, C., Kirwan, P. D., Siebert, S., & Millar, N. L. (2022). The effect of exercise on cytokines: implications for musculoskeletal health: a narrative review. *BMC Sports Science, Medicine and Rehabilitation*, 14(1), 5. <https://doi.org/10.1186/s13102-022-00397-2>
- Driscoll, A. K., & Gregory, E. C. W. (2020). Increases in Prepregnancy Obesity: United States, 2016-2019. *NCHS Data Brief*, 392, 1–8. <https://www.cdc.gov/nchs/products/databriefs/db392.htm>
- Falkenberg, R. I., Eising, C., & Peters, M. L. (2018). Yoga and immune system functioning: a systematic review of randomized controlled trials. *Journal of Behavioral Medicine*, 41(4), 467–482. <https://doi.org/10.1007/s10865-018-9914-y>
- Febbraio, M. A., & Pedersen, B. K. (2002). Muscle-derived interleukin-6: mechanisms for activation and possible biological roles. *The FASEB Journal*, 16(11), 1335–1347. <https://doi.org/https://doi.org/10.1096/fj.01-0876rev>
- Fisher, A. L., & Nemeth, E. (2017). Iron homeostasis during pregnancy. *American Journal of Clinical Nutrition*, 106, 1567S-1574S. <https://doi.org/10.3945/ajcn.117.155812>
- Fujii, T., Asai, T., Matsuo, T., & Okamura, K. (2011). Effect of Resistance Exercise on Iron Status in Moderately Iron-Deficient Rats. *Biological Trace Element Research*, 144(1), 983–991. <https://doi.org/10.1007/s12011-011-9072-3>
- Ganz, T. (2016). Macrophages and iron metabolism. *Microbiol Spectrum*, 4(5). <https://doi.org/10.1128/9781555819194.ch46>
- Garcia-Valdes, L., Campoy, C., Hayes, H., Florido, J., Rusanova, I., Miranda, M. T., & McArdle, H. J. (2015). The impact of maternal obesity on iron status, placental transferrin receptor expression and hepcidin expression in human pregnancy. *International Journal of Obesity*, 39(4), 571–578. <https://doi.org/10.1038/ijo.2015.3>
- Gómez-Rubio, P., & Trapero, I. (2019). The Effects of Exercise on IL-6 Levels and Cognitive Performance in Patients with Schizophrenia. *Diseases*, 7(1), 11. <https://doi.org/10.3390/diseases7010011>
- Gordon, L., McGrowder, D. A., Pena, Y. T., Cabrera, E., & Lawrence-Wright, M. B. (2013). Effect of yoga exercise therapy on oxidative stress indicators with end-stage renal disease on hemodialysis. *rnational Journal of Yoga*, 6(1), 31–38. <https://doi.org/10.4103/0973-6131.105944>



- Goyal, D., & Agarwal, S. (2019). Hematological Modulation in Regular Practice of Yoga. *International Journal of Medical and Biomedical Studies*, 3(8), 81–83. <https://doi.org/10.32553/ijmbs.v3i8.457>
- Grabara, M. (2016). Could hatha yoga be a health-related physical activity? *Biomedical Human Kinetics*, 8(1), 10–16. <https://doi.org/10.1515/bhk-2016-0002>
- Green, J., Larkey, L., Leiferman, J. A., Buman, M., Oh, C., & Huberty, J. (2022). Prenatal yoga and excessive gestational weight gain: A review of evidence and potential mechanisms. *Complementary Therapies in Clinical Practice*, 46, 101551. <https://doi.org/https://doi.org/10.1016/j.ctcp.2022.101551>
- Gupta, R., & Maurya, P. K. (2020). *Effects of Yoga on Oxidative Stress During Aging BT - Role of Oxidative Stress in Pathophysiology of Diseases* (P. K. Maurya & K. Dua (eds.); pp. 179–194). Springer Singapore. [https://doi.org/10.1007/978-981-15-1568-2\\_11](https://doi.org/10.1007/978-981-15-1568-2_11)
- He, F., Li, J., Liu, Z., Chuang, C.-C., Yang, W., & Zuo, L. (2016). Redox Mechanism of Reactive Oxygen Species in Exercise. *Frontiers in Physiology*, 7, 486. <https://doi.org/10.3389/fphys.2016.00486>
- Hintze, K. J., & McClung, J. P. (2011). Hepcidin: A critical regulator of iron metabolism during hypoxia. *Advances in Hematology*, 2011. <https://doi.org/10.1155/2011/510304>
- Hirosawa, T., Hayashi, A., Harada, Y., & Shimizu, T. (2022). The Clinical and Biological Manifestations in Women with Iron Deficiency Without Anemia Compared to Iron Deficiency Anemia in a General Internal Medicine Setting: A Retrospective Cohort Study. *International Journal of General Medicine*, 15(August), 6765–6773. <https://doi.org/10.2147/IJGM.S376405>
- Jackson, M. J., Pye, D., & Palomero, J. (2007). The production of reactive oxygen and nitrogen species by skeletal muscle. In *Journal of Applied Physiology* (Vol. 102, Issue 4, pp. 1664–1670). <https://doi.org/10.1152/japplphysiol.01102.2006>
- Kapilevich, L. V., Zakharova, A. N., Kabachkova, A. V., Kironenko, T. A., & Orlov, S. N. (2017). Dynamic and static exercises differentially affect plasma cytokine content in elite endurance- and strength-trained athletes and untrained volunteers. *Frontiers in Physiology*, 8(JAN). <https://doi.org/10.3389/fphys.2017.00035>
- J, A., & Pantopoulos, K. (2018). Hepcidin therapeutics. *Pharmaceutics*, 11(4), 1–30. <https://doi.org/10.3390/PH11040127>



- Kemenkes RI. (2018). *buku-pencegahan-dan-penanggulangan-anemia-pada-rematri-dan-wu*. Kemenkes RI.  
<https://gizi.kemkes.go.id/katalog/revisi-buku-pencegahan-dan-penanggulangan-anemia-pada-rematri-dan-wus.pdf>
- Knovich, M. A., Storey, J. A., Coffman, L. G., & Torti, S. V. (2018). Ferritin for the Clinician. *Blood Reviews*, 23(3), 95–104.  
<https://doi.org/10.1016/j.blre.2008.08.001>
- Knutson, M. D. (2017). Iron transport proteins: Gateways of cellular and systemic iron homeostasis. *Journal of Biological Chemistry*, 292(31), 12735–12743. <https://doi.org/10.1074/jbc.R117.786632>
- Koenig, M. D., Tussing-Humphreys, L., Day, J., Cadwell, B., & Nemeth, E. (2014). Hepcidin and iron homeostasis during pregnancy. In *Nutrients* (Vol. 6, Issue 8, pp. 3062–3083). <https://doi.org/10.3390/nu6083062>
- Kudaeva, O. T., Kolesnikova, O. P., Sukhenko, T. G., & Kozlov, V. A. (2012). *Effect of Regular Physical Training on Hemopoiesis in Experimental Animals*. 153(2), 217–221.
- Leal, L. G., Lopes, M. A., & Batista, M. L. (2018). Physical exercise-induced myokines and muscle-adipose tissue crosstalk: A review of current knowledge and the implications for health and metabolic diseases. *Frontiers in Physiology*, 9(SEP), 1–17.  
<https://doi.org/10.3389/fphys.2018.01307>
- Lim, J. U., Lee, J. H., Kim, J. S., Hwang, Y. Il, Kim, T.-H., Lim, S. Y., Yoo, K. H., Jung, K.-S., Kim, Y. K., & Rhee, C. K. (2017). Comparison of World Health Organization and Asia-Pacific body mass index classifications in COPD patients. *International Journal of Chronic Obstructive Pulmonary Disease*, 12, 2465–2475.  
<https://doi.org/10.2147/COPD.S141295>
- Liu, Y. Q., Duan, X. L., Chang, Y. Z., Wang, H. T., & Qian, Z. M. (2006). Molecular analysis of increased iron status in moderately exercised rats. *Molecular and Cellular Biochemistry*, 282(1–2), 117–123.  
<https://doi.org/10.1007/s11010-006-1522-4>
- Lopez, A., Cacoub, P., Macdougall, I. C., & Peyrin-biroulet, L. (2015). *Seminar Iron deficiency anaemia*. 6736(15), 1–10.
- Malshe, P. C. (2018). *Medical Understanding of Yoga* (3rd ed.). J.P Medical Ltd.
- Martorelli, D., Cocchioni, M., Scuri, S., & Pompei, P. (2011). Phragmatic breathing reduces exercise-induced oxidative stress. *Evidence-Based Complementary and Alternative Medicine*, 2011.  
<https://doi.org/10.1093/ecam/nep169>



- McIntyre, H. D., Dekker, M., Barrett, H. L., & Callaway, L. K. (2019). Obesity in Pregnancy: Epidemiology, Mechanisms, Nutritional and Metabolic Management. *Frontiers in Diabetes*, 28, 21–34. <https://doi.org/10.1159/000480163>
- Milman, N. (2006). Iron and pregnancy - A delicate balance. *Annals of Hematology*, 85(9), 559–565. <https://doi.org/10.1007/s00277-006-0108-2>
- Monteiro-Junior, R. S., de Tarso Maciel-Pinheiro, P., da Matta Mello Portugal, E., da Silva Figueiredo, L. F., Terra, R., Carneiro, L. S. F., Rodrigues, V. D., Nascimento, O. J. M., Deslandes, A. C., & Laks, J. (2018). Effect of Exercise on Inflammatory Profile of Older Persons: Systematic Review and Meta-Analyses. *Journal of Physical Activity & Health*, 15(1), 64–71. <https://doi.org/10.1123/jpah.2016-0735>
- Muckenthaler, M. U., Rivella, S., Hentze, M. W., & Galy, B. (2017). A Red Carpet for Iron Metabolism. *Cell*, 168(3), 344–361. <https://doi.org/10.1016/j.cell.2016.12.034>
- Mukhopadhyay, A., Bhatla, N., Kriplani, A., Agarwal, N., & Saxena, R. (2004). Erythrocyte indices in pregnancy: Effect of intermittent iron supplementation. *National Medical Journal of India*, 17(3), 135–137.
- Nahas, E. M. El, & Gabr, A. A. (2017). Impact of Aerobic Exercises on Iron Deficiency Anemia in Girls. *International Journal of Physiotherapy and Research*, 5(5), 2399–2404. <https://doi.org/10.16965/ijpr.2017.216>
- Nash, D., Hughes, M. G., Butcher, L., Aicheler, R., Smith, P., Cullen, T., & Webb, R. (2023). IL-6 signaling in acute exercise and chronic training: Potential consequences for health and athletic performance. *Scandinavian Journal of Medicine & Science in Sports*, 33(1), 4–19. <https://doi.org/10.1111/sms.14241>
- Nugent, N. R., Brick, L., Armey, M. F., Tyrka, A. R., Ridout, K. K., & Uebelacker, L. A. (2021). Benefits of Yoga on IL-6: Findings from a Randomized Controlled Trial of Yoga for Depression. *Behavioral Medicine (Washington, D.C.)*, 47(1), 21–30. <https://doi.org/10.1080/08964289.2019.1604489>
- Ostrowski, K., Rohde, T., Zacho, M., Asp, S., & Pedersen, B. K. (1998). Evidence that interleukin-6 is produced in human skeletal muscle during prolonged running. In *Journal of Physiology* (Vol. 508, Issue 3, pp. 949–953). *Journal of Physiology*. <https://doi.org/10.1111/j.1469-7793.1998.949bp.x>
- A., Nai, A., Silvestri, L., & Camaschella, C. (2019). Hepcidin and mia: A Tight Relationship. *Frontiers in Physiology*, 10. <https://doi.org/10.3389/fphys.2019.01294>



- Parent-roberge, H., & Fontvieille, A. (2020). Brain , Behavior , & Immunity - Health Effects of combined exercise training on the inflammatory profile of older cancer patients treated with systemic therapy. *Brain, Behavior, & Immunity-Health*, 2(October 2019).  
<https://doi.org/10.1016/j.bbih.2019.100016>
- Pedersen, B. K., & Febbraio, M. A. (2008). Muscle as an endocrine organ: Focus on muscle-derived interleukin-6. *Physiological Reviews*, 88(4), 1379–1406. <https://doi.org/10.1152/physrev.90100.2007>
- Pedersen, B. K., Steensberg, A., & Schjerling, P. (2001). Muscle-derived interleukin-6: possible biological effects. *The Journal of Physiology*, 536(Pt 2), 329–337. <https://doi.org/10.1111/j.1469-7793.2001.0329c.xd>
- Pendeloski, K. P. T., Ono, E., Torloni, M. R., Mattar, R., & Daher, S. (2017). Maternal obesity and inflammatory mediators: A controversial association. *American Journal of Reproductive Immunology*, 77(5), 1–8. <https://doi.org/10.1111/aji.12674>
- Possamai, A., & Blasi, A. J. (2020). Serum Ferritin and Iron/TIBC of Pregnant Women Attending Nnamdi Azikiwe University Teaching Hospital, Nnewi, Anambra State, Nigeria: A Longitudinal Study. *Clinical Research in Obstetrics and Gynecology*, 3(2), 1–6. <https://doi.org/10.4135/9781529714401.n258>
- Pujiastuti Shindu. (2009). *Yoga Untuk Kehamilan, Sehat Bahagia Penuh Makna*. Mizan.
- Pujiastuti Shindu. (2015). *Panduan Lengkap Yoga: untuk Hidup Sehat dan Seimbang*. Mizan.
- Purwanto, D. S. (2013). Peran Hepsidin Sebagai Regulator Metabolisme Besi. *Jurnal Biomedik (Jbm)*, 4(2). <https://doi.org/10.35790/jbm.4.2.2012.756>
- Qassim, A., Grivell, R. M., Henry, A., Kidson-Gerber, G., Shand, A., & Grzeskowiak, L. E. (2019). Intravenous or oral iron for treating iron deficiency anaemia during pregnancy: systematic review and meta-analysis. In *Medical Journal of Australia* (Vol. 211, Issue 8, pp. 367–373). <https://doi.org/10.5694/mja2.50308>
- Rahma, H., Lumbanraja, S. N., & Lubis, Z. (2018). Hepcidin and Feritin Levels in Obese Pregnant Women and Normal Body Weight before Pregnancy. *Indonesian Journal of Medicine*, 3(1), 22–26.  
<https://doi.org/10.26911/theijmed.2018.03.01.03>



- Rahman, M. M., Abe, S. K., Rahman, M. S., Kanda, M., Narita, S., Bilano, V., Ota, E., Gilmour, S., & Shibuya, K. (2016). Maternal anemia and risk of adverse birth and health outcomes in low- and middle-income countries: Systematic review and meta-analysis. In *American Journal of Clinical Nutrition* (Vol. 103, Issue 2, pp. 495–504).  
<https://doi.org/10.3945/ajcn.115.107896>
- Rahmati, S., Delpishe, A., Azami, M., Ahmadi, M. R. H., & Sayehmiri, K. (2017). Maternal anemia during pregnancy and infant low birth weight: A systematic review and meta-analysis. *International Journal of Reproductive BioMedicine*, 15(3), 125–134.  
<https://doi.org/10.29252/ijrm.15.3.125>
- Ray, U. S., Pathak, A., & Tomer, O. S. (2011). Hatha yoga practices: Energy expenditure, respiratory changes and intensity of exercise. *Evidence-Based Complementary and Alternative Medicine*, 2011.  
<https://doi.org/10.1093/ecam/nea046>
- Rishi, G., & Subramaniam, V. N. (2017). The liver in regulation of iron homeostasis. *American Journal of Physiology - Gastrointestinal and Liver Physiology*, 313(3), G157–G165.  
<https://doi.org/10.1152/ajpgi.00004.2017>
- Robert K. Murray, J. V. (2016). *Biokimia Harper* (H. O. O. Ricky Soeharsono, Ferdy Sandra (ed.); Edisi 29). EGC.
- Rochette, L., Gudjoncik, A., Guenancia, C., Zeller, M., Cottin, Y., & Vergely, C. (2015). The iron-regulatory hormone hepcidin: A possible therapeutic target? *Pharmacology and Therapeutics*, 146, 35–52.  
<https://doi.org/10.1016/j.pharmthera.2014.09.004>
- Rukini, R., Bhattacharya, S., Murphy, M. F., Roberts, D., Stanworth, S. J., & Knight, M. (2016). Maternal and neonatal outcomes of antenatal anemia in a Scottish population\_ a retrospective cohort study \_ Enhanced Reader.pdf. *Acta Obstetricia et Gynecologica Scandinavia*, 95, 555–564. <https://doi.org/10.1111/aogs.12862>
- Sahai, N., Chandran, A. B., Bhuyan, A., Das, B., Mandal, S., & Sarma, T. (2019). Effect of yoga on physical and physiological parameters. *International Journal of Innovative Technology and Exploring Engineering*, 8(10), 2061–2064.  
<https://doi.org/10.35940/ijitee.J9326.0881019>
- Saini, K. B., & Lahange, S. M. (2017). Critical Review Study on Contribution of Yoga in Sports. *International Journal of Ayurveda andarma Research*, 5(6), 10–1610.  
<http://ijapr.in/index.php/ijapr/article/view/695/605>



- Sangkhae, V., & Nemeth, E. (2017). Regulation of the iron homeostatic hormone hepcidin. *Advances in Nutrition*, 8(1), 126–136. <https://doi.org/10.3945/an.116.013961>
- Schwartz, A. J., Das, N. K., Ramakrishnan, S. K., Jain, C., Jurkovic, M. T., Wu, J., Nemeth, E., Lakhal-Littleton, S., Colacino, J. A., & Shah, Y. M. (2019). Hepatic hepcidin/intestinal HIF-2 $\alpha$  axis maintains iron absorption during iron deficiency and overload. *Journal of Clinical Investigation*, 129(1), 336–348. <https://doi.org/10.1172/JCI122359>
- Sellami, M., Bragazzi, N. L., Aboghaba, B., & Elrayess, M. A. (2021). The Impact of Acute and Chronic Exercise on Immunoglobulins and Cytokines in Elderly: Insights From a Critical Review of the Literature. *Frontiers in Immunology*, 12, 631873. <https://doi.org/10.3389/fimmu.2021.631873>
- Sharma, N., & Gupta, R. (2016). *A study of yoga in anemic patients*. 5(03), 399–401. <https://doi.org/10.5455/ijmsph.2016.0207201564>
- Srinivasan, T. M. (2021). Understanding Your Muscle Tissue. In *yogajournal*. <https://www.yogajournal.com/>
- Steensberg, A., van Hall, G., Osada, T., Sacchetti, M., Saltin, B., & Karlund Pedersen, B. (2000). Production of interleukin-6 in contracting human skeletal muscles can account for the exercise-induced increase in plasma interleukin-6. *The Journal of Physiology*, 529 Pt 1(Pt 1), 237–242. <https://doi.org/10.1111/j.1469-7793.2000.00237.x>
- Suega, K. (2016). *Aspek Biologik dan Klinik dari Besi. Dari Anemia Defisiensi Besi Sampai Anemia Kelebihan Besi* (B. I. Made & D. I. Wayan (eds.)). PT Percetakan Bali. [https://simdos.unud.ac.id/uploads/file\\_penelitian\\_1\\_dir/7990f894ab3384fd0828646a7e2b47e4.pdf](https://simdos.unud.ac.id/uploads/file_penelitian_1_dir/7990f894ab3384fd0828646a7e2b47e4.pdf)
- Sugiyono. (2021). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D* (2nd ed.). Alfabeta, Bandung.
- Suna, R. (2017). Effect of yogic practice and aerobic training on selected physiological variables among college women. *Int.J.Physiology,Nutrition and Physical Education*, 2(1), 29–31. <https://www.journalofsports.com/pdf/2017/vol2issue1/PartA/2-1-9-279.pdf>
- Tiwari, A. K. M., Mahdi, A. A., Zahra, F., Chandyan, S., Srivastava, V. K., egi, M. P. S. (2010). Evaluation of oxidative stress and antioxidant us in pregnant anemic women. *Indian Journal of Clinical Chemistry : IJCB*, 25(4), 411–418. <https://doi.org/10.1007/s12291-0067-1>



- Troadec, M. B., Lainé, F., Daniel, V., Rochcongar, P., Ropert, M., Cabillic, F., Perrin, M., Morcet, J., Loréal, O., Olbina, G., Westerman, M., Nemeth, E., Ganz, T., & Brissot, P. (2009). Daily regulation of serum and urinary hepcidin is not influenced by submaximal cycling exercise in humans with normal iron metabolism. *European Journal of Applied Physiology*, 106(3), 435–443. <https://doi.org/10.1007/s00421-009-1031-8>
- Tyagi, A., & Cohen, M. (2013). Oxygen Consumption Changes With Yoga Practices: A Systematic Review. *Journal of Evidence-Based Complementary & Alternative Medicine*, 18(4), 290–308. <https://doi.org/10.1177/2156587213492770>
- U.Muckenthaler, M., Rivella, S., W.Hentze, M., & Galy, B. (2017). A Red Carpet for Iron Metabolism. *Cell*, 26, 344–361. <https://doi.org/https://doi.org/10.1016/j.cell.2016.12.034>
- Van Poppel, M. N. M., Peinhaupt, M., Eekhoff, M. E. W., Heinemann, A., Oostdam, N., Wouters, M. G. A. J., Van Mechelen, W., & Desoye, G. (2014). Physical activity in overweight and obese pregnant women is associated with higher levels of proinflammatory cytokines and with reduced insulin response through interleukin-6. *Diabetes Care*, 37(4), 1132–1139. <https://doi.org/10.2337/dc13-2140>
- Vazenmiller, D., Ponamaryova, O., Muravlyova, L., Molotov-Luchanskiy, V., Klyuyev, D., Bakirova, R., & Amirbekova, Z. (2018). The levels of hepcidin and erythropoietin in pregnant women with anemia of various genuses. *Open Access Macedonian Journal of Medical Sciences*, 6(11), 2111–2114. <https://doi.org/10.3889/oamjms.2018.471>
- Vega-Sánchez, R., Tolentino-Dolores, M. C., Cerezo-Rodríguez, B., Chehaibar-Besil, G., & Flores-Quijano, M. E. (2020). Erythropoiesis and red cell indices undergo adjustments during pregnancy in response to maternal body size but not inflammation. *Nutrients*, 12(4). <https://doi.org/10.3390/nu12040975>
- Vinet, L., & Zhedanov, A. (2010). A “missing” family of classical orthogonal polynomials. *Oman Medical Journal*, 35(5), 1–9. <https://doi.org/10.1088/1751-8113/44/8/085201>
- Wadhwa, Y., Alghadir, A. H., & Iqbal, Z. A. (2020). Effect of antenatal exercises, including yoga, on the course of labor, delivery and pregnancy: A retrospective study. *International Journal of Environmental Research and Public Health*, 17(15), 1–11. <https://doi.org/10.3390/ijerph17155274>
- 2021). Prevalensi anemia pada wanita hamil ( usia 15-49 ).



- WHO expert consultation. (2004). Appropriate body-mass index for Asian populations and its implications for policy and intervention strategies. *The Lancet Global Health*, 363.  
[https://doi.org/https://doi.org/10.1016/S0140-6736\(03\)15268-3](https://doi.org/https://doi.org/10.1016/S0140-6736(03)15268-3)
- Wiadnyana, M. S. (2010). *The Power Of Yoga for middle age*. Grasindo.
- Wibowo, N., Irwinda, R., & Hiksas, R. (2021). *Anemia Defisiensi Besi Pada Kehamilan*. Departemen Obstetri dan Ginekologi FK-UI.  
<https://pogi.or.id/publish/download/anemia-defisiensi-besi-pada-kehamilan/>
- Wijayanti, E., Retnoningrum, D., & Hendrianintyas, M. (2019). Hubungan petanda inflamasi dan hemoglobin pada obesitas di Fakultas Kedokteran Universitas Diponegoro periode Mei-September 2018. *Intisari Sains Medis*, 10(1), 242–246.  
<https://doi.org/10.15562/ism.v10i1.347>
- Women, M. of women and C. D. (2018). *Yoga For Pregnant ladies*.
- Yaman, S., Tulmac, Ö. B., Canarslan, B., & HANÇERLİOĞULLARI, N. (2020). Effect of pilates during pregnancy on delivery outcomes. *Journal of Health Sciences and Medicine*, 3(4), 442–447.  
<https://doi.org/10.32322/jhsm.790126>
- Zhao, L., Zhang, X., Shen, Y., Fang, X., Wang, Y., & Wang, F. (2015). Obesity and iron deficiency: a quantitative meta-analysis. *Obesity Reviews*, 16(12), 1081–1093.  
<https://doi.org/https://doi.org/10.1111/obr.12323>
- Zimmermann, M. B., Troesch, B., Biebinger, R., Egli, I., Zeder, C., & Hurrell, R. F. (2009). Plasma hepcidin is a modest predictor of dietary iron bioavailability in humans, whereas oral iron loading, measured by stable-isotope appearance curves, increases plasma hepcidin. *American Journal of Clinical Nutrition*, 90(5), 1280–1287.  
<https://doi.org/10.3945/ajcn.2009.28129>

