

## DAFTAR PUSTAKA

- Abu-Ouf, N.M. & Jan, M.M. 2015. The impact of maternal iron deficiency and iron deficiency anemia on child's health. *Saudi Med. J.*, 36(2): 146–149.
- Almatsier, S. 2009. *Prinsip Dasar Ilmu Gizi*. Jakarta: PT Gramedia Pustaka Utama.
- Angeles Vázquez López, M., Molinos, F.L., Carmona, M.L., Morales, A.C., Muñoz Vico, F.J., Muñoz, J.L. & Muñoz Hoyos, A. 2006. Serum transferrin receptor in children: Usefulness for determining the nature of anemia in infection. *Journal of Pediatr. Hematol. Oncol.*, 28(12): 809–815.
- Apriyanti, W.S., Sutaryo, S. & Mulatsih, S. 2013. Serum ferritin to detect iron deficiency in children below five years of age. *Paediatrica Indonesiana*, 53(3): 150.
- Badan Penelitian dan Pengembangan Kesehatan. 2008. Laporan Nasional Riskesdas 2007 [National Report on Basic Health Research 2007]. *Kementerian Kesehatan Republik Indonesia*: 1–384.
- Badan Penelitian dan Pengembangan Kesehatan Kementrian Kesehatan RI. 2013. Riset kesehatan dasar (Riskesdas). : 179–295.
- Bahrainwala, J. & Berns, J.S. 2016. Diagnosis of Iron-Deficiency Anemia in Chronic Kidney Disease. *Semin Nephrol*, 36(2): 94–98.
- Bakta. 2006. Pendekatan Terhadap Pasien Anemia. In S. S. Sudoyo AW, Bambang Setiyohadi, Idrus Alwi, Marcellus Simadibrata K, ed. *Buku Ajar Ilmu Penyakit Dalam*. Jakarta: Pusat Penerbitan Ilmu Penyakit Dalam FK UI: 622–623.
- Balci, Y.I., Karabulut, A., Gürses, D. & Çövüt, I.E. 2012. Prevalence and risk factors of anemia among adolescents in Denizli, Turkey. *Iran. J. of Pediatr*, 22(1): 77–81.
- Barasi, M.E. 2009. *At a Glance: Ilmu Gizi*. Jakarta: Erlangga.
- Bermejo, F. & García-López, S. 2009. A guide to diagnosis of iron deficiency and iron deficiency anemia in digestive diseases. *World J Gastroenterol.*, 15(37): 4638–4643.
- Bhandari, S., Norfolk, D., Brownjohn, A. & Turney, J. 1997. Evaluation of RBC ferritin and reticulocyte measurements in monitoring response to intravenous iron therapy. *Am J Kidney Dis.*, 30(6): 814–821. <https://pubmed.ncbi.nlm.nih.gov/9398126/> 22 June 2020.
- Brooks, C., Burke, S.P. & Persand, G. 2001. Benchmarks and the accuracy of GARCH model estimation. *Int. J. Forecast.*, 17(1): 45–56.
- Brown JF, Isaacs JS, Krinke UB, M. & MA, Stang J, W.N. 2004. Nutrition Through the Life Cycle. In USA: Thomson Wadsworth.
- Brugnara, C. 2000. Reticulocyte cellular indices: A new approach in the diagnosis of anemias and monitoring of erythropoietic function. *Crit Rev Clin Lab Sci*, 37(2): 93–130.
- Brumitt, J., McIntosh, L. & Rutt, R. 2009. Comprehensive Sports Medicine Treatment of an Athlete Who Runs Cross-Country and is Iron Deficient. *NAJSPT*, 4(1): 13–20. <http://www.ncbi.nlm.nih.gov/pubmed/21509116> 13 February 2020.



- Canadian Paediatric Society. 2003. Age limits and adolescents. *Paediatr. Child Health*, 8(9): 577.
- Chen, Y.C., Hung, S.C. & Tarng, D.C. 2006. Association Between Transferrin Receptor-Ferritin Index and Conventional Measures of Iron Responsiveness in Hemodialysis Patients. *Am J Kidney Dis*, 47(6): 1036–1044.
- Choi, J.W. 2005. Sensitivity, specificity, and predictive value of serum soluble transferrin receptor at different stages of iron deficiency. *Ann. Clin. Lab. Sci.*, 35(4): 435–439.
- Choi JW, Pai SH, Im MW, K.S. 1999. Change in transferrin receptor concentrations with age. *Clin Chem*, 45: 1562–1563.
- Clénin, G.E., Cordes, M., Huber, A., Schumacher, Y., Noack, P., Scales, J. & Kriemler, S. 2016. Iron deficiency in sports - definition, influence on performance and therapy. *Schweiz Z Med Traumatol.*, 64(1): 6–18.
- Cook, J.D., Baynes, R.D. & Skikne, B.S. 1992. Iron deficiency and the measurement of iron status. *Nutrition research reviews*, 5(1): 198–202. <http://www.ncbi.nlm.nih.gov/pubmed/19094320> 11 February 2020.
- Coyne, D. 2006. Challenging the boundaries of anemia management: A balanced approach to i.v. iron and EPO therapy. *Int Soc Nephrol*, 69(SUPPL. 101): S1–S3.
- Dahlan, S. 2014. *Deskriptif, Bivariat, dan Multivariat dilengkapi Aplikasi Menggunakan SPSS*. 6th ed. Jakarta: Epidemiologi Indonesia.
- Dahlan, S. 2009. *Penelitian Diagnostik: Dasar-dasar Teoretis dan Aplikasi dengan Program SPSS dan Stata*. A. Novianty, ed. Jakarta: Salemba Medika.
- Doig, K. 2016. Disorders of Iron and Heme Metabolism. *Oncohem Key*.
- El-Gendy, F.M., El-Hawy, M.A., Rizk, M.S., El-Hefnawy, S.M. & Mahmoud, M.Z. 2018. Value of Soluble Transferrin Receptors and sTfR/log Ferritin in the Diagnosis of Iron Deficiency Accompanied by Acute Infection. *Indian J Hematol Blo.*, 34(1): 104–109.
- Erickson, J.C., Hollopeter, G. & Palmiter, R.D. 1996. Attenuation of the obesity syndrome of ob/ob mice by the loss of neuropeptide Y. *Science*, 274(5293): 1704–1707. <http://www.ncbi.nlm.nih.gov/pubmed/8939859> 11 February 2020.
- Goodnough, L.T., Skikne, B. & Brugnara, C. 2000. Erythropoietin, iron, and erythropoiesis. *Am Soc Haematol*, 96(3): 823–833.
- Hajian-Tilaki, K. 2014. Sample size estimation in diagnostic test studies of biomedical informatics. *J. Biomed. Inform.*, 48: 193–204. <http://dx.doi.org/10.1016/j.jbi.2014.02.013>.
- Halterman, J.S., Kaczorowski, J.M., Aligne, C.A., Auinger, P. & Szilagyi, P.G. 2001. Iron deficiency and cognitive achievement among school-aged children and adolescents in the United States. *Pediatrics*, 107(6): 1381–1386.
- Harms, K. & Kaiser, T. 2015. Beyond soluble transferrin receptor: Old challenges and new horizons. *Best Practice and Research: Clinical Endocrinology and Metabolism*, 29(5): 799–810.
- Infusino, I., Braga, F., Dolci, A. & Panteghini, M. 2012. Soluble transferrin receptor (sTfR) and sTfR/log ferritin index for the diagnosis of iron-deficiency anemia: A



- meta-analysis. *Am. J. Clin. Pathol.*, 138(5): 642–649.
- Institute of Health Metrics and Evaluations [IHME]. 2017. Global Burden of Disease Study 2017. *The Lancet*.
- Karagülle, M., Gündüz, E., Mutlu, F.Ş. & Akay, M.O. 2013. Clinical Significance of Reticulocyte Hemoglobin Content in the Diagnosis of Iron Deficiency Anemia. *Turkish J Haematol*, 30(2): 153–156.
- KDOQI & Review, E. 2006. KDOQI Clinical Practice Guidelines and Clinical Practice Recommendations for Anemia in Chronic Kidney Disease. Executive Summary. *Am. J. Kidney Dis.*, : the official journal of the National Kidney Foundation, 47(5): S11-70.
- Kependudukan, B., Berencana, K., Badan, N., Statistik, P. & Kesehatan, K. 2013. *Survei Demografi dan Kesehatan Indonesia 2012*. www.measuredhs.com. 12 February 2020.
- Kim, J.M., Ihm, C.H. & Kim, H.J. 2008. Evaluation of reticulocyte haemoglobin content as marker of iron deficiency and predictor of response to intravenous iron in haemodialysis patients. *Int J Lab Haematol*, 30(1): 46–52.
- Kliegman R, Stanton B, St Geme J, S.N. 2019. *Nelson's Textbook of Pediatrics*. 21st ed. Elsevier Ltd.
- Koca, E., Cetiner, D.A., Buyukasik, Y., Uner, A., Sayinalp, N. & Haznedaroglu, I.C. 2013. Bone Marrow Iron Staining is a Reliable Test for Elimination of Iron Deficiency Anemia Rather than its Diagnosis. *Int J Haematol Oncol*, 23(4): 260–263.
- Kogan, A.E., Filatov, V.L., Kara, A.N., Levina, A.A. & Katrukha, A.G. 2007. Comparison of soluble and placental transferrin receptors as standards for the determination of soluble transferrin receptor in humans. *Int J Lab Hematol.*, 29(5): 335–340. <https://pubmed.ncbi.nlm.nih.gov/17824913/> 24 June 2020.
- Kumar, Abbas, Aster, Vinay, Abul K., J.C. 2015. *Robbins & Cotran Pathologic Basis of Disease*. 9th ed. Elsevier.
- Lankhorst, C.E. & Wish, J.B. 2010. Anemia in renal disease: Diagnosis and management. *Blood Reviews*, 24(1): 39–47.
- Lestari, I.P. & Lipoeto, N.I. 2017. Artikel Penelitian Hubungan Konsumsi Zat Besi dengan Kejadian Anemia pada Murid SMP Negeri 27 Padang. , 6(3): 507–511.
- Listiana, A. 2016. Analisis Faktor-Faktor yang Berhubungan dengan Kejadian Anemia Gizi Besi pada Remaja Putri di SMKN 1 Terbanggi Besar Lampung Tengah. *Jurnal Kesehatan*, Volume VII: 455–469.
- Litwack, G. 2018. Micronutrients (Metals and Iodine). In *Human Biochemistry*. Elsevier: 591–643.
- Lubis, A. & Siregar, J.. 2013. Anemia pada Penyakit Ginjal Kronik. *UNSU*: 1–20.
- Marković, M., Majkić-Singh, N. & Subota, V. 2005. Usefulness of soluble transferrin receptor and ferritin in iron deficiency and chronic disease. *Scandinavian Journal of Clinical and Laboratory Investigation*, 65(7): 571–576.
- Masrizal. 2007. Anemia defisiensi besi. *Jurnal Kesehatan Masyarakat*, II(1): 140–145.
- Mast AE, Blinder MA, Gronowski AM, Chumley C, S.M. 1998. Clinical utility of the



- soluble transferrin receptor and comparison with serum ferritin in several populations. *Clin Chem*, 44(1): 45–51.
- McLean, E., Cogswell, M., Egli, I., Wojdyla, D. & De Benoist, B. 2009. Worldwide prevalence of anaemia, WHO Vitamin and Mineral Nutrition Information System, 1993–2005. *Public Health Nutr.*, 12(4): 444–454.
- More, S., Shivkumar, V.B., Gangane, N. & Shende, S. 2013. Effects of iron deficiency on cognitive function in school going adolescent females in rural area of central India. *Anemia*, 2013.
- Muhammad, Adang; Sianipar, O. 2005. Penentuan Defisiensi Besi Anemia Penyakit Kronis Menggunakan Peran Indeks sTfR-F ( Determination of iron deficiency in chronic disease anemia by the role of sTfR-F index ). *Indones. J. Clinical Pathol. Med. Laboratory*, 12(1): 9–15.
- Nur, Muhammad ; Ratnaningsih, T. 2014. Penampilan Diagnostik Soluble Transferrin Receptor (sTfR) untuk Skrining Defisiensi Besi pada Anak Usia 6 Bulan - 5 Tahun. Universitas Gadjah Mada. [http://etd.repository.ugm.ac.id/home/detail\\_pencarian/74781](http://etd.repository.ugm.ac.id/home/detail_pencarian/74781) 21 February 2020.
- Pusponegoro, W, W., A, P., J, B. & S., Z. 2010. Uji Diagnostik. In I. S. Sastroasmoro S, ed. *Dasar-dasar Metodologi Penelitian Klinis*. Jakarta: CV Sagung Seto: 193–216.
- Putra, E., Sutarga, M., Kardiwinata, M., Suariyani, P., Septarini, W. & Subrata, M. 2016. Modul Penelitian Uji Diagnostik dan Skrining.
- Rafi, A., Karkar, A. & Abdelrahman, M. 2007. Monitoring Iron status in End-Stage Renal Disease Patients on Hemodialysis. *Saudi J Kidney Dis Transplant*, 18(1): 73–78.
- Ramzi, M., Haghpanah, S., Malekmakan, L., Cohan, N., Baseri, A., Alamdari, A. & Zare, N. 2011. Anemia and iron deficiency in adolescent school girls in Kavar Urban area, Southern Iran. *Iran. Red. Crescent. Med. J.*, 13(2): 128–133.
- Safari, S., Baratloo, A., Elfil, M. & Negida, A. 2016. Evidence Based Emergency Medicine; Part 5 Receiver Operating Curve and Area under the Curve. *Emergency*, 4(2): 111–3.
- Saito, H. 2014. Metabolism of iron stores. *Nagoya J. Med. Sci.*, 76(3–4): 235–254.
- Sampson, E.J. 2009. *Laboratory Procedure Manual Soluble Transferrin Receptor Roche Tina-quant ® Roche Diagnostics Hitachi 912 ® system*.
- Sastroasmoro, S. & Ismael, S. 2014. *Dasar-dasar Metodologi penelitian Klinis*. 5th ed. Jakarta: Sagung Seto.
- Schrier, S.L. & Auerbach, M. 2018. Causes and diagnosis of iron deficiency and iron deficiency anemia in adults. *UpToDate*.
- Siswosudarmo, R. 2017. Tes diagnostik (Diagnostic test).
- Skikne, B.S. 1998. Circulating transferrin receptor assay--coming of age. *Clin Chem*, 44(1): 7–9.
- Skikne, B.S., Punnonen, K., Caldron, P.H., Bennett, M.T., Rehu, M., Gasior, G.H., Chamberlin, J.S., Sullivan, L.A., Bray, K.R. & Southwick, P.C. 2011. Improved differential diagnosis of anemia of chronic disease and iron deficiency anemia: A



- prospective multicenter evaluation of soluble transferrin receptor and the sTfR/log ferritin index. *Am. J. Hematol.*, 86(11): 923–927.
- Soekarjo, D., de Pee, S., Bloem, M., Tjong, R., Yip, R., Schreurs, W. & Muhilal. 2001. Socio-economic status and puberty are the main factors determining anaemia in adolescent girls and boys in East Java, Indonesia. *Eur. J. Clin. Nutr.*, 55(11): 932–939.
- Soetjningsih. 2007. Tumbuh kembang remaja dan permasalahannya. In Jakarta: Sagung Seto.
- Spivak, J.L. 2002. Iron and the anemia of chronic disease. *Oncology (Williston Park)*, 16(9 Suppl 10): 25–33.
- Stoltzfus, R.J. 2003. Iron deficiency: Global prevalence and consequences. *Food and Nutrition Bulletin*, 24(4 SUPPLEMENT).
- Suega, K., Kandarini, Y. & Tubung, J. 2019. Role of soluble transferrin receptor and transferrin receptor-ferritin index to detect iron deficiency anemia in regular hemodialysis patients. *Open Access Maced J Med Sci*, 7(1): 97–102.
- Suominen, P., Punnonen, K., Rajamäki, A. & Irjala, K. 1998a. Serum transferrin receptor and transferrin receptor-ferritin index identify healthy subjects with subclinical iron deficits. *Blood*, 92(8): 2934–2939.
- Suominen, P., Punnonen, K., Rajamäki, A. & Irjala, K. 1998b. Serum transferrin receptor and transferrin receptor-ferritin index identify healthy subjects with subclinical iron deficits. *Blood*, 92(8): 2934–2939.
- Suryani, D., Hafiani, R. & Junita, R. 2017. Analisis Pola Makan Dan Anemia Gizi Besi Pada Remaja Putri Kota Bengkulu. *Jurnal Kesehatan Masyarakat Andalas*, 10(1): 11.
- Thomas, C. & Thomas, L. 2002. Biochemical markers and hematologic indices in the diagnosis of functional iron deficiency. *Clinical Chemistry*, 48(7): 1066–1076.
- Thorpe, S.J. 2010. The development and role of international biological reference materials in the diagnosis of anaemia. *Biologicals*, 38(4): 449–458. <http://dx.doi.org/10.1016/j.biologicals.2010.02.007>.
- Thorpe, S.J., Heath, A., Sharp, G., Cook, J., Ellis, R. & Worwood, M. 2010. A WHO Reference Reagent for the Serum Transferrin Receptor (sTfR): International collaborative study to evaluate a recombinant soluble transferrin receptor preparation. *Clin. Chem. Lab. Med.*, 48(6): 815–820. <https://pubmed.ncbi.nlm.nih.gov/20446759/> 27 June 2020.
- Turgeon O'Brien, H., Blanchet, R., Gagné, D., Lauzière, J. & Vézina, C. 2016. Using soluble transferrin receptor and taking inflammation into account when defining serum ferritin cutoffs improved the diagnosis of iron deficiency in a group of Canadian preschool inuit children from nunavik. *Anemia*, 2016.
- Urrechaga, E., Boveda, O., Aguayo, F.J., de la Hera, P., Muñoz, R.I., Gallardo, I. & Escanero, J.F. 2016. Percentage of hypochromic erythrocytes and reticulocyte hemoglobin equivalent predictors of response to intravenous iron in hemodialysis patients. *Int J Lab Haematol*, 38(4): 360–365.
- Vasanthi, G., Pawashe, A.B., Susie, H., Sujatha, T. & Raman, L. 1994. Iron nutritional



- status of adolescent girls from rural area and urban slum. *Indian pediatr.*, 31(2): 127–132.
- Vendt, N., Talvik, T., Leedo, S., Tomberg, K., Kool, P., Tillmann, V. & GrÜnberg, H. 2009. The reference limits and cut-off value for serum soluble transferrin receptors for diagnosing iron deficiency in infants. *IntJournal of Lab Hematol.*, 31(4): 440–446.
- Wang, W., Knovich, M.A., Coffman, L.G., Torti, F.M. & Torti, S. V. 2010. Serum ferritin: Past, present and future. *Biochim Biophys Acta*, 11(2): 760–780.
- Warrilow, G., Kirkham, C., Ismail, K.M., Wyatt, K., Dimmock, P. & O’Brien, S. 2004. Quantification of menstrual blood loss. *The Obstetrician & Gynaecologist*, 6(2): 88–92. <http://doi.wiley.com/10.1576/toag.6.2.88.26983> 14 June 2020.
- WHO. 2007. Assessing the iron status of populations. *CDC*: 1–112.
- WHO. 2013. *Micronutrient Deficiency*. World Health Organization.
- WHO. 2011. *Serum ferritin concentrations for assessment of iron status and iron deficiency in populations*.
- WHO. 2015. *THE GLOBAL PREVALENCE OF ANAEMIA IN 2011 WHO Library Cataloguing-in-Publication Data*. W. L. C.-P. Data, ed. WHO Document Production Services. [www.who.int/about/licensing/copyright\\_form/en/index.html](http://www.who.int/about/licensing/copyright_form/en/index.html) 12 February 2020.
- Wians, F.H., Urban, J.E., Keffer, J.H. & Kroft, S.H. 2001. *Discriminating Between Iron Deficiency Anemia and Anemia of Chronic Disease Using Traditional Indices of Iron Status vs Transferrin Receptor Concentration*. <https://academic.oup.com/ajcp/article-abstract/115/1/112/1757956> 13 April 2020.
- Wish, J.B. 2006. Assessing iron status: beyond serum ferritin and transferrin saturation. *Clin J Am soc Nephrol*, 1 Suppl 1: S4–S8.