

DAFTAR PUSTAKA

- 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.
- 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.
- Canadian Paediatric Society. 2003. Age limits and adolescents. *J Paediatr Child Health*, 8(9): 577.
- Cao, A. & Galanello, R. 2010. Beta-thalassemia. *Genet Med*, 12(2): 61–76. <http://www.ncbi.nlm.nih.gov/pubmed/20098328> 27 February 2020.
- Cao, A. & Kan, Y.W. 2013. The prevention of thalassemia. *Cold Spring Harbor Perspectives in Medicine*, 3(2).
- Chang, C.C. & Kass, L. 1997. Clinical significance of immature reticulocyte fraction determined by automated reticulocyte counting. *Am J Clin Pathol*, 108, 108(1): 69–73.
- 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.
- Dugdale, M. 2001. Anemia. *Obstetrics and Gynecology Clinics of North America*, 28(2): 363–382.
- Ehsani, M.A., Shahgholi, E., Rahiminejad, M.S., Seighali, F. & Rashidi, A. 2009. A new index for discrimination between iron deficiency anemia and beta-thalassemia minor: Results in 284 patients. *Pak J Biol Sci*, 12(5): 473–475.
- Flint, J., Harding, R.M., Boyce, A.J. & Clegg, J.B. 1998. The population genetics of the haemoglobinopathies. *Bailliere's Clinical Haematology*, 11(1): 1–51.
- Fucharoen, S. & Winichagoon, P. 2011. Haemoglobinopathies in Southeast Asia. *Indian J Med Res*, 134(10): 498–506.
- Galanello, R. & Origa, R. 2010. Beta-thalassemia. *Orphanet J Rare Dis*, 5(1): 11.
- Gibson, F., Mason, K., Serjeant, B., Kulozik, A., Happich, M., Tolle, G., Hambleton, I. & Serjeant, G. 2012. Screening for the beta-thalassaemia trait: Hazards among populations of West African Ancestry. *J Community Genet*, 3(1): 13–18.
- 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.

- Harahap, R.I.M., Prihatni, D., Rostini, T. 2019. The Compatibility Measurement of Mentzer, England & Fraser, Shine & Lal, and Srivastava Indices to the Hemoglobin Electrophoresis Result for Beta Thalassemia Trait Screening. *Bali Med J*, 8(2): 311–315.
- Hoffmann, J.J.M.L., Urrechaga, E. & Aguirre, U. 2015. Discriminant indices for distinguishing thalassemia and iron deficiency in patients with microcytic anemia: A meta-analysis. *Clin Chem Lab Med*, 53(12): 1883–1894.
- Husna, Sanka, A.A. 2017. Prevalence and distribution of thalassemia trait screening. *Journal of Medical Science*, 49(3): 106–113.
- Januária F. Matosa, Luci M.S. Dusse, Karina B.G. Borges, Ricardo L.V. de Castro, Wendel Coura-Vital, M. das G.C. 2016. A new index to discriminate between iron deficiency anemia and thalassemia trait. *Revista Brasileira de Hematologia e Hemoterapia*, 38(3): 214–219. <http://dx.doi.org/10.1016/j.bjhh.2016.05.011>.
- Kepmenkes. 2018. *Pedoman Nasional Pelayanan Kedokteran Tata Laksana Thalassemia*. Jakarta.
- Martin, A. & Thompson, A.A. 2013. Thalassemias. *Pediatric Clinics of North America*, 60(6): 1383–1391. <http://www.ncbi.nlm.nih.gov/pubmed/24237977> 27 February 2020.
- Maskoen, A.M., Reniarti, L., Sahiratmadja, E., Sisca, J. & Effendi, S.H. 2019. Shine & Lal index as a predictor for early detection of α -thalassemia carriers in a limited resource area in Bandung, Indonesia. *BMC Med Genet*, 20(1): 1–6.
- Masrizal. 2007. Anemia defisiensi besi. *Jurnal Kesehatan Masyarakat*, II(1): 140–145.
- Matos, J.F., Borges, K.B.G., Fernandes, A.P.S.M., Faria, J.R. & Carvalho, M.D.G. 2015. RDW as differential parameter between microcytic anemias in 'pure' and concomitant forms. *J Bras de Patol Med Lab*, 51(1): 22–27.
- Mentzer, W.C. 1973. Differentiation of Iron Deficiency from Thalassemia Trait. *The Lancet*, 301(7808): 882.
- Meshram PM, Kokandakar HR, B.R. 2017. Study of blood indices and high performance liquid chromatography in differentiation beta thalassaemia trait and iron deficiency anemia. *J Res Med Sci*, 5(11): 4728–2736.
- Miri, M.E. 2014. Cut off Determination of Discrimination Indices in Differential Diagnosis between Iron Deficiency Anemia and α -Thalassemia Minor. *Journal Hematol Oncol Stem Cell Res*, 8(2): 27–32.
- Nathan, D.G., Alter, B.P. & Mahoney, M.J. 2019. Prenatal diagnosis of the hemoglobinopathies. *Genetic Diseases and Development Disabilities: Aspects of Detection and Prevention*, 27(February): 101–108.
- Nesa, A., Tayab, M.A., Sultana, T., Khondker, L., Rahman, M.Q., Karim, M.A. & Ahmed, A.N. 2009. RDWI is Better Discriminant than RDW in Differentiation of Iron Deficiency Anaemia and Beta Thalassemia Trait. *Bangladesh Journal of Child Health*, 33(3): 100–103.
- Ntaios, G. & Chatzinikolaou, A. 2008. Discrimination indices as screening tests for α -thalassemic trait [3]. *Ann Hematol*, 87(4): 329–330.
- Ntaios, G., Chatzinikolaou, A., Saouli, Z., Girtovitis, F., Tsapanidou, M., Kaiafa,

- G., Kontoninas, Z., Nikolaidou, A., Savopoulos, C., Pidonia, I. & Alexiou-Daniel, S. 2007. Discrimination indices as screening tests for α -thalassemic trait. *Ann Hematol*, 86(7): 487–491. <http://www.ncbi.nlm.nih.gov/pubmed/17476506> 27 February 2020.
- Okan, V., Cigiloglu, A., Cifci, S., Yilmaz, M. & Pehlivan, M. 2009. Red cell indices and functions differentiating patients with the α -thalassaemia trait from those with iron deficiency anaemia. *J Int Med Res*, 37(1): 25–30.
- Origa, R. 1993. *Beta-Thalassemia*. University of Washington, Seattle. <http://www.ncbi.nlm.nih.gov/pubmed/20301599> 4 March 2020.
- Ou, Z., Li, Q., Liu, W. & Sun, X. 2011. Elevated hemoglobin A2 as a marker for α -thalassemia trait in pregnant women. *Tohoku J Exp Med*, 223(3): 223–226.
- Piplani, S., Madaan, M., Mannan, R., Manjari, M., Singh, T. & Lalit, M. 2016. Evaluation of various discrimination indices in differentiating Iron deficiency anemia and Beta Thalassemia trait: A practical low cost solution. *APALM*, 3(6):551–559.
- 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.
- R.A. Nawawi, Fitriani, B. Rusli, H. 2016. Majalah Patologi Klinik Indonesia dan Laboratorium Medik. *Indones J Clinical Pathol Med Laboratory*, 14(2).
- Rahim, F. & Keikhaei, B. 2009. Better differential diagnosis of iron deficiency anemia from beta-thalassemia trait Demir eksikli i anemisinin beta-talasemi ta iyicili ndan ayirici tanisinin daha iyi yapılması. , (May 2014). https://www.journalagent.com/tjh/pdfs/TJH_26_3_138_145.pdf.
- Rathod, D.A., Kaur, A., Patel, Vinod, Patel, K., Kabrawala, R., Patel, Viral, Patel, M. & Shah, P. 2007. Usefulness of cell counter-based parameters and formulas in detection of α -thalassemia trait in areas of high prevalence. *Am J Clin Pathol*, 128(4): 585–589. <http://www.ncbi.nlm.nih.gov/pubmed/17875509> 27 February 2020.
- Raza, S., Farooqi, S., Mubeen, H., Shoaib, M.W. & Jabeen, S. 2016. Beta thalassemia: Prevalence, risk and challenges. *International Journal of Medical and Health Research*, 2(1): 20–22. www.medicalsciencejournal.com.
- Rejeki, D.S.S., Nurhayati, N., Supriyanto, S. & Kartikasari, E. 2012. Studi Epidemiologi Deskriptif Talasemia. *Kesmas: National Public Health Journal*, 7(3): 139.
- Rosita, L. 2007. Surveilans Penderita Talasemia di RSUP Dr . Sardjito Yogyakarta Tahun 2004. *Mutiara Medika*, 7(2): 109–120.
- Ruth HK, Nyoman SW, E.K. 2018. Uji Sensitivitas Dan Spesifisitas Mentzer Index, Red Distribution Width Index Dan Green and King Index Terhadap Diagnosis Talasemia Beta Minor Dan Anemia Defisiensi Besi. *Jurnal Kedokteran Diponegoro*, 7(2): 787–800.
- 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.
- Sastroasmoro, S. & Ismael, S. 2014. *Dasar-dasar Metodologi penelitian Klinis*. 5th ed. Jakarta: Sagung Seto.
- Sehgal, K., Mansukhani, P., Dadu, T., Irani, M. & Khodaiji, S. 2015. Sehgal index: A new index and its comparison with other complete blood count-based indices for screening of beta thalassemia trait in a tertiary care hospital. *Indian J Pathol Microbiol*, 58(3): 310–315.
- Sharma, A., Mehta, S. & Sharma, S. 2016. Utility of Erythrocyte Indices for Screening of –Thalassemia Trait in Pregnant Women Attending Antenatal Clinic. *IJMSE*, 3(4): 331–337.
- Silman. 1995. *Pemantapan Mutu Laboratorium Klinik Bidang Kimia Klinik*. Jakarta: PDS PatKLin.
- Sirachainan, N., Iamsirirak, P., Charoenkwan, P., Kadegasem, P., Wongwerawattanakoon, P., Sasanakul, W., Chansatitporn, N. & Chuansumrit, A. 2014. New mathematical formula for differentiating thalassemia trait and iron deficiency anemia in thalassemia prevalent area: A study in healthy school-age children. *Southeast Asian J Trop Med Public Health*, 45(1): 174–182.
- Suryani, E., Wiharto, W. & Wahyudiani, K.N. 2016. Identifikasi Anemia Thalassemia Betha Mayor Berdasarkan Morfologi Sel Darah Merah. *Scientific Journal of Informatics*, 2(1): 15–27.
- Tangvarasittichai, O., Poonanan, N. & Tangvarasittichai, S. 2017. Using Red Cell Indices and Reticulocyte Parameters for Carrier Screening of Various Thalassemia Syndromes. *Indian J Clin Biochem*, 32(1): 61–67.
- Tassiopoulos, T., Konstantopoulos, K., Tassiopoulos, S., Rombos, Y., Alevizou-Terzaki, V., Kyriaki, P. & Loukopoulos, D. 1997. Erythropoietin Levels and Microcytosis in Heterozygous Beta-Thalassaemia. *Acta Haematologica*, 98(3): 147–149. <https://www.karger.com/Article/FullText/203609> 9 October 2020.
- Taylor, J.R. 1997. *An introduction to error analysis*. 2nd ed. Sausalito, Calif. : University Science Books.
- Tong, L., Kauer, J., Wa, S., Chu, K., Dou, H. & Smith, Z.J. 2017. A new red cell index and portable RBC analyzer for screening of iron deficiency and Thalassemia minor in a Chinese population. 7(10510): 1–10.
- Urrechaga, E. 2008. Discriminant value of % microcytic/% hypochromic ratio in the differential diagnosis of microcytic anemia. *Clin Chem Lab Med*, 46(12): 1752–1758.
- Urrechaga, Eloísa, Borque, L. & Escanero, J.F. 2011a. The role of automated measurement of RBC subpopulations in differential diagnosis of microcytic anemia and -thalassemia screening. *Am J Clin Pathol*, 135(3): 374–379. <http://www.ncbi.nlm.nih.gov/pubmed/21350090> 27 February 2020.
- Urrechaga, Eloísa, Borque, L. & Escanero, J.F. 2011b. The role of automated measurement of RBC subpopulations in differential diagnosis of microcytic anemia and -thalassemia screening. *Am J Clin Pathol*, 135(3): 374–379.
- Urrechaga, E., Borque, L. & Escanero, J.F. 2011. The role of automated measurement of red cell subpopulations on the Sysmex XE 5000 analyzer in

- the differential diagnosis of microcytic anemia. *International Journal of Laboratory Hematology*, 33(1): 30–36.
- 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.
- Urrechaga, E. & Hoffmann, J.J.M.L. 2017. Critical appraisal of discriminant formulas for distinguishing thalassemia from iron deficiency in patients with microcytic anemia. *Clin Chem Lab Med*, 55(10): 1582–1591.
- Vehapoglu, A., Ozgurhan, G., Demir, A.D., Uzuner, S., Nursoy, M.A., Turkmen, S. & Kacan, A. 2014. Hematological indices for differential diagnosis of beta thalassemia trait and iron deficiency anemia. *Anemia*, 2014.
- Vichinsky, E.P. 2005. Changing patterns of thalassemia worldwide. In *Ann N Y Acad Sci*. New York Academy of Sciences: 18–24.
- Viprakasit, V., Lee-Lee, C., Chong, Q.T., Lin, K.H. & Khuhapinant, A. 2009. Iron chelation therapy in the management of thalassemia: The Asian perspectives. *Int J Hematol*, 90(4): 435–445. <https://pubmed.ncbi.nlm.nih.gov/19862602/> 9 October 2020.
- WHO. 2013. *Micronutrient Deficiency*. World Health Organization.