

## DAFTAR PUSTAKA

- Ahmed, H., Czosek, R.J., Spar, D.S., Knilans, T.K., Anderson, J.B. 2017. Early repolarization in normal adolescents is common. *Pediatr Cardiol*, 38(4): 864-872.
- Anigbogu, C.N., Isichei, C.V., Ajuluchukwu, J.N. 2012. Blood pressure, heart rate, cardiovascular reflexes and electrocardiographic changes in some hypertensive Nigerians. *Niger J Physiol Sci*. 27: 023-027.
- Anttila, I.J.T., Nikus, K.C., Lehtimaki, T., Kahonen, M. 2013. Relation of poor R wave progression to risk of cardiovascular mortality. *Eur Heart J*, 34: P1540.
- Awazu, M. 2016. Epidemiology of hypertension. In: Avner E.D., Harmon, W.E., Niaudet, P., Yoshikawa, E., Emma, F., Goldstein, S.I., editor. *Pediatric nephrology*, Edisi 7, Springer-Verlag, New York.
- Bacharova, L., Michalak, K., Kyselovic, J., Klimas, J. 2005. Relation between QRS amplitude and left ventricular mass in the initial stage of exercise-induced left ventricular hypertrophy in rats. *J Clin Exp Hypertens*, 27(6): 533-541.
- Bacharova, L., Szathmary, V., Kovalcik, M., Mateasik, A. 2010. Effect of changes in left ventricular anatomy and conduction velocity on the QRS voltage and morphology in left ventricular hypertrophy: a model study. *J Electrocardiol*, 43(3): 200-208.
- Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI. 2013. *Riset Kesehatan Dasar (Riskesdas 2013)*. Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI, Jakarta.
- Bang, C.N., Okin, P.M. 2016. Does electrocardiography still have a place in hypertension? *J Hypertens*, 34: 842-844.
- Barlow, S.E. and the Expert Committee. 2007. Expert committee recommendations regarding the prevention, assessment, and treatment of child and adolescent overweight and obesity: summary report. *Pediatrics*, 120: S164-192.
- Barness, L.A. 1996. Obesity. In: Behrman, R.E., Kliegman, R.M., Arvin, A.M., editor. *Nelson textbook of pediatrics*, edisi 15, WB Saunders Company, Philadelphia.
- Benson, L., Baer, H.J., Kaelber, D.C. 2009. Trends in the diagnosis of overweight and obesity in children and adolescents: 1999-2007. *Pediatrics*. 123:e153-8.

- Christofaro, D.G., Casonato, J., Vanderlei, L.C.M., Cucato, G.G., Dias, R.M.R.D. 2017. Relationship between rest heart rate, blood pressure, pulse pressure in adolescent. *Arq Bras Cardiol*, 108: 404-410.
- Cozzolino, D., Grandone, A., Cittadini, A., Palmiero, G., Esposito, G., De Bellis, A., Furlan, R., Perrotta, S., Perrone, L., Torella, D., Miraglia, E. & Giudice, D. 2015. Subclinical Myocardial Dysfunction and Cardiac Autonomic Dysregulation Are Closely Associated in Obese Children and Adolescents: The Potential Role of Insulin Resistance. *PLOS ONE*, 10(4): e0123916.
- Daniels, S.R., Loggie, J.M., Khoury, P., Kimball, T.R. 1998. Left ventricular geometry and severe left ventricular hypertrophy in children and adolescents with essential hypertension. *Circulation*, 97: 1907-1911.
- Deveci, M., Babaoglu., Kayabey, O. 2017. A rare cause of early repolarization in an adolescent boy with chest pain: myocardial bridging. *Cardiovasc J Afr*. 28(3): e5-e7.
- Djer, M.M. 2015. *Cara mudah dan cepat membaca EKG pada anak*. Edisi 1, Badan Penerbit Ikatan Dokter Anak Indonesia, Jakarta.
- Falkner, B., Daniels, S.R., Flynn, J.T., Gidding, S., Green, L.A., Ingelfinger, J.R. 2005. *The fourth report on the diagnosis, evaluation, and treatment of high blood pressure in children and adolescents*. US Department Of Health And Human Services National Institutes Of Health National Heart Lung And Blood Institute. United State.
- Falkner, B., Kuhnner. H., Onesti G., Angelakos, E.T. 1981. Cardiovascular characteristics in adolescents who develop essential hypertension. *Hypertension*, 3(50); 521-527.
- Falkner, B., 2017. Monitoring and management of hypertension with obesity in adolescents. *Integr Blood Press Control*, 10;33-39.
- Flynn, J.T., Falkner, B.E. 2011. Obesity hypertension in adolescent : epidemiology, evaluation, and management. *J. Clin Hypertens*, 13: 323-331.
- Flynn, J.T., 2013. The changing face of pediatric hypertension in the era of childhood obesity epidemic. *Pediatr Nephrol*, 28: 1059-1066.
- Flynn, J.T., Kaelber, D.C., Baker-Smith, C.M., Blowey, D., Carroll, A.E., Daniels ,S.R., Carroll, A.E, *et al*. 2017. Clinical practice guideline for screening and management of high blood pressure in children and adolescents. *Pediatrics*. 140(3): e20171904.
- Frank, S., Colliver, J.A., Frank, A. 1986. The electrocardiogram in obesity: Statistical analysis of 1,029 patients. *J A Coll Cardiol*, 7(2): 295–299.

- George, C.F., Breckenridge, A.M., Dollery, C.T., 1972. Value of routine electrocardiography in hypertensive patient. *Br Heart J*, 34: 618-622.
- Hadtstein, C., Schaefer, F., 2008. Hypertension in children with chronic kidney disease: pathophysiology and management. *Pediatr nephrol*. 23(3): 363-371.
- Haris, S., Tambunan, T. 2009. Hipertensi pada sindrom metabolik. *Sari Pediatri*. 11: 257-263.
- Haruta, D., Matsuo, K., Tsuneto, A., Ichimaru, S., Hida, A., Sera, N., Imaizumi M., Nakhashima, E., Maemura, K., Akahoshi, M. 2011. Incidence and prognostic value of early repolarization pattern in the 12-lead electrocardiogram. *Circulation*. 123: 2931-2937.
- Hassapidou, M., Tzotzas, T., Makri, E., Pagkalos, I., Kaklamanos, I., Kapantais, E., Abrahamian, A., Polymeris, A., Tziomalos. 2017. Prevalence and geographic variation of abdominal obesity in 7 and 9 year old children in Greece : World Health Organization childhood obesity surveillance initiative 2010. *BMC Public Health*, 17:126.
- Haynes, W.G. 2005. Role of leptin in obesity related hypertension. *Exp Physiol*, 90: 683-688.
- Irawan, B., Setianto, B.Y., Dinarti, L.K., Hariawan, H., Taufiq, N., Arso, I.A., Mumpuni, H., 2007. *Pelatihan Interpretasi EKG*, Bagian Kardiologi FK UGM, Yogyakarta.
- Juhasz, M., Katona, E., Settakis, G., Paragh, G., Molnar, C., Fulesdi, B., Pall, D., 2010. Gender related differences in adolescent hypertension and in target organ effects. *J Woman Health*. 19(4): 759-765.
- Kapur, G., Mattoo, T.K. 2011. Primary hypertension. In: Flynn, J.T., Ingelfinger, J.R., Portman, R.J., editor. *Pediatric hypertension*. 2011. Edisi 2, Humana Press, New York.
- Kenchiah, S., Pfeffer, M.A. 2004. Cardiac remodeling in systemic hypertension. *Med Clin N Am*, 88: 115-130.
- Kim, S.H., Kwak, M.H., Kim, H.J., Nam, G.B., Choi, K.J., Kim, Y.H. 2009. Prevalence and positive predictive value of poor R wave progression and impact of cardiothoracic ratio. *Korean Circ J*, 39: 418-422.
- Kotsis, V., Stabouli, S., Papakatsika, S. 2010. Mechanism of obesity induced hypertension. *Hypertens Research*, 33: 386-93.
- Kuznetsova, T., Herbots, L., Lopez, B., Jin, Y., Richart, T., Thijs, L. 2009. Prevalence of left ventricular diastolic dysfunction in a general population. *Circ Heart Fail*, 2(2): 105-112.

- Lehtonen, A.O., Puukka, P., Varis, J., Porthan, K., Tikkanen, J.T, Nieminen, M.S. 2016. Prevalence and prognosis of ECG abnormalities in normotensive and hypertensive individuals. *J Hypertens*, 34: 959-966.
- Lestari, H.I., Bahrin, D. 2017. Hipertensi pada anak. Dalam: Rachmadi, D., Sekarwana, N., Hilanto, D., Garna, H, *Buku ajar nefrologi anak*, Edisi 3, Badan Penerbit Ikatan Dokter Anak Indonesia, Jakarta.
- Modak, S., Mehta, P., Patnaik, J. 2016. Study on ECG changes in chronic hypertensive patients in medical college hospital of Odisha. *JMSCR*, 04: 10473-10477.
- Morris, F., Edhouse, J., Brady, W.J., Camm, J. 2003. *ABC of Clinical Electrocardiography*. First edition, BMJ Publishing Group, London.
- Mule, G., Nardi, E., Guarneri, M., Cottone, S. 2016. Electrocardiography for assessment of hypertensive heart disease : a new role for an old tool. *J. Clin Hypertens*, 18: 843-845.
- McCrorry, W.W., Klein, A.A., Rosenthal, R.A. 1982. Blood pressure, heart rate, and plasma catecholamines in normal and hypertensive children and their siblings at rest and after standing. *Hypertension*, 4(4) :507-13.
- Newaz, A.S.M., Huda, S.Q., Ali, S.M., Maula, G., Islam, S., 2016. Electrocardiographic changes in different grades of hypertensive patients: experience of 400 cases in Bangladesh. *Journal of Science Foundation*, 14(1): 26-29.
- Paech, C., Anhalt, M., Gebauer, R.A., Wagner, F., Vogel, M., Kirsten, T., Weidenbach, M., Kiess, W., Dähnert, I. & Körner, A. 2018. New normal limits for pediatric ECG in childhood obesity? Influence of childhood obesity on the ECG. *Progress in Ped Cardiol*, 48: 119-123.
- Park, M.K. 2014. *Park's pediatric cardiology for practitioners*. Sixth edition, Elsevier Inc., Philadelphia.
- Pinto, A., Roldan, R., Sollecito, T. P. 2005. Hypertension in children: an overview. *J Dental Education*, 70: 434-440.
- Putra, S.T., Sastroasmoro, S., Siregar, A.A., 1994. Elektrokardiografi. Dalam: Sastroasmoro, S., Madiyono, B., penyunting, *Buku Ajar Kardiologi Anak*. Ikatan Dokter Anak Indonesia. Jakarta.
- Rachmi, C.N., Li, M., Baur, A., 2017. Overweight and obesity in Indonesia: prevalence and risk factors- a literature review. *Public Health*, 147: 20-29.
- Rahayuningsih S,R. 2012. *Interpretasi EKG pada anak*. Sagung Seto, Jakarta.

- Raj, M. 2011. Essential hypertension in adolescencets and children: recent advancances in causative mechanism. *Indian J Endocrinol Metab*, 15(supll 4): s367-373.
- Ramaswamy, P., Patel, E., Fahey, M., Mahgerefteh, J., Lytrivi, I.D., Kupferman, J.C., 2009. Electrocardiographic predictors of left ventricular hypertrophy in pediatric hypertension. *J Pediatr*, 154(1): 1907-1911.
- Redfield, M.M., Jacobsen, S.J., Burnett, J.C., Mahoney, D.W., Bailey, K.R., Rodeheffer, R.J. 2003. Burden of systolic and diastolic ventricular dysfunction in the community: appreciating the scope of the heart failure epidemic. *JAMA*, 289(2): 194-202.
- Reilly, J.J. 2006. Obesity in childhood and adolescence: Evidence based clinical and public health perspectives. *Postgraduate Med J*, 82(969): 429–437.
- Rijnbeek, P.R., Herpen, G.V., Kapusta, L., Harkel, D.J., Witsenburg, M., Kors, J.A. 2008. Electrocardiographic criteria for left ventricular hypertrophy in children. *Pediatr Cardiol*, 29: 923-928.
- Robinson, R.F., Batsky, D.L., Hayes, J.R., Nahata, M.C., Mahan, J.D. 2004. Body mass index in primary and secondary pediatric hypertension. *Pediatr Nephrol*, 9: 1379-1384.
- Rodriques, J.C.L, Amadu, A.M., Dastidar, A.G., McIntyre, B., Gergley, V., Szantho, G.V., 2017. ECG strain pattern in hypertension is associated with myocardial cellular expansion and diffuse interstitial fibrosis: a multi-parametric cardiac magnetic resonance study. *Europ Heart J Cardio Imaging*. 18: 441-450.
- Ross, G. 1963. Effect of hypertension on the P wave of the electrocardiogram. *Brit Heart J*. 25:460-464.
- Sekarwana, N., Rachmadi, D., Hilmanto, D. 2011. *Konsensus tata laksana hipertensi pada anak*, Badan Penerbit Ikatan Dokter Anak Indonesia, Jakarta.
- Sjoberg, S., Sundh, F., Schlegel, T., Maynard, C., Ruck, A., Wagner, G., Ugander, M. 2015. The relationship between electrocardiographic left ventricular hypertrophy criteria and echocardiographic mass in patients undergoing transcatheter aortic valve replacement. *J Electrocardiol*, 48(4): 630-636.
- Sorof, J., Daniels, S. 2002. Obesity hypertension in children: a problem of epidemic proportions. *Hypertension*, 40: 441-447.

- Sorof, J., Alexandrov, A.V., Cardwell, G., Portman, R.J., Carotid artery intimal-medial thickness and left ventricular hypertrophy in children with elevated blood pressure. *Pediatrics*. In press.
- Sun, G.Z., Li, Y., Zhou, X.H., Guo, X.F., Zhang, X.G., Zheng, L.Q., Li, Y., Jiao, Y, Di, Sun, Y.X. 2013. Association between obesity and ECG variables in children and adolescents: A cross-sectional study. *Experimental and Therapeutic Medicine*, 6(6): 1455–1462.
- Sjarif, D.R. 2002. Obesitas pada anak dan permasalahannya. Dalam: Trihono, P., Purnawati, Sjarif, D.R., penyunting. *Hot topic in pediatric II. Naskah lengkap pendidikan kedokteran berkelanjutan XLV*, Balai Penerbit FK UI, Jakarta.
- Sjarif, D.R., Lanny Christine Gultom, L.C., Hendarto, A., ; Lestari, E.D., Sidiartha, I.G.L., Mexitalia, M. 2014. *Rekomendasi Ikatan Dokter Anak Indonesia : diagnosis, tata laksana dan pencegahan obesitas pada anak dan remaja*, edisi pertama, UKK Nutrisi dan Penyakit Metabolik, Jakarta.
- Vaidean, G.D, Manczuk, M., Magnani, J.W., 2016. Atrial electrocardiography in obesity and hypertension : clinical insights from the polish-norwegian study (pons). *Obesity*, 24(12): 2608-2614.
- Vikrant, S., Tiwari, S.C. 2001. Essential hypertension pathogenesis and pathophysiology. *J Indian Acad Clin Med*, 2: 140-161.
- Wahab, S. 1987. *Elektrokardiografi Anak*. Edisi Pertama, Bina Cipta, Bandung
- WHO.int. Facts and figures on childhood obesity (updated 2017 October 13; cited 2018 July 19), Available from: <http://www.who.int>.
- Wirix, A.J.G., Nauta, J., Groothoff, J.W., Rabelink, T.J., Hirasing, R.A., Chinapaw, M.J., Holthe, J.E.K. 2016. Is the prevalence of hypertension in overweight children overestimated?. *Arch Dis Child*, 101: 998-1003.
- Yamaguchi, I., Flynn, J.T. 2016. Pathophysiology of hypertension. In: Anver, E.D., Harmon, W.E., Niaudet, P., Yoshikawa, N., Emma, F., Goldstein, S.L., editor. *Pediatric nephrology*, Edisi 7, Springer-Verlag, New York.
- Yosypiv, I.V. 2011. Vasoactive factors and blood pressure in children. In: Flynn, J.T., Ingelfinger, J.R., Portman, R.J., editor. *Pediatric hypertension*. Edisi 2. Humana Press. New York.
- Zema, M.J., Kligfield, P. 1982. ECG poor R wave progression: review and synthesis. *Arch Intern Med*, 142: 1145-1148.