

DAFTAR PUSTAKA

- Achari, A., Jain, S., 2017. Review Adiponectin, a Therapeutic Target for Obesity, Diabetes, and Endothelial Dysfunction . *International Journal of Molecular Sciences* Vol. 18
- Aly, R., Amr, A., Saad, W., Megahed, A., 2014. Insulin Resistance in Patients on Valproic Acid: Relation to Adiponectin. *Acta Neurologica Scandinavia*
- Aminoff, M., Douglas, V., 2017. Nervous System Disorders. in : M.A. Papadakis & S.J. McPhee, *Current Medical Diagnosis & Treatment*. New York: McGraw-Hill Education, pp.977-1049
- Andrianti, P., Gunawan, P., Husein, F., 2016. Profil Epilepsi Anak dan Keberhasilan Pengobatannya di RSUD Dr. Soetomo Tahun 2013. *Sari pediatri* 18(1): 34-9
- Asayama, Kohtaro, Kazushige Dobashi, Akira Shirahata, Hidemasa Hayashibe, Norihiko Uchida, Takaya Nakane, Kohji Koderu, and Matsuo Taniyama. 2003. Decrease in Serum Adiponectin Level Due to Obesity and Visceral Fat Accumulation in Children. *Obesity Research* 11(9):1072–79
- Attie, A, Scherer, P., 2009. Adipocyte Metabolism and Obesity. *Journal of Lipid Research*
- Balsan, G., Veira, J., Oliviera, A., Portal, V., 2015. Relationship between adiponection, obesity and insulin resistance. *Rev Assoc Med Bras* 61(1):72-80
- Biton, V., Mirza, W., Montouris, G., 2001. Weight change associated with valproate and lamotrigine monotherapy in patients with epilepsy. *Neurology* 56:172-177
- Bosterbio, 2017. ELISA Fundamental Principle, How ELISA Works-Immunoassays. Diakses dari <https://www.bosterbio.com/protocol-and-troubleshooting/elisa-principle>, pada tanggal 20 Januari 2019
- Breum, L., Astrup, A., Gram, L., Andersen, T., Stokholm, K., Christensen, N., Werdelin, L.,

- Madsen, J. 1992. Metabolic Changes during Treatment with Valproat in Humans : Implication for sUntoward Weigh Gain. *Metabolism* 41:666-670
- Combs, T., Marlis, E., 2013. Adiponectin Signalling in the Liver. *Rev Endocr Metab Disord*
- Corbet, A., Dana, W., Fuller, M., Gallagher, J. 2014. Drug Information Handbook, 23rd edition. Ohio: Lexi-Comp, Inc.
- Chandran, M., Phillips, S., Ciaraldi, T., Henry, R., 2003. Adiponectin: More Than Just Another Fat Cell Hormone? *Diabetes Care* 26:8, 2442-2447
- Corman, C., Leung, N., Guberman, A., 1997. Weight Gain in Epileptic Patients During Treatment with Valproic Acid: a Retrospective Study. *Can J Neurol Sci* Vol. 24
- Diagnostics Biochem Canada (DBC), 2018. Adiponectin ELISA. Diagnostics Biochem Canada
- Demir, E., Aysun, S., 2000. Weight Gain Associated With Valproate in Childhood. *Pediatric Neurology* 22: 361-364
- Dikić, D, Jutrić, D, Dominko, K. 2017. The Dual Nature of the Antiepileptic Drug Valproic Acid, with Possible Beneficial Effects in Alzheimer's Disease. *Southeastern Medical Journal* 1(1), 74-89
- Dinesen, H. Gram, L., Andersen, T., Gam, M., 1984. Weight Gain during Treatment with Valproat. *Acta Neurol Scand* 69:65-69
- Ding, Junjie, Yi Wang, Weiwei Lin, Changlian Wang, Limei Zhao, Xingang Li, Zhigang Zhao, Liyan Miao, and Zheng Jiao. 2015. A Population Pharmacokinetic Model of Valproic Acid in Pediatric Patients with Epilepsy: A Non-Linear Pharmacokinetic Model Based on Protein-Binding Saturation. *Clinical Pharmacokinetics* 54(3):305–17.
- Easter, D., O'Bryan-Tear, G., Verity, C., 1997. Weight gain with valproate or carbamazepine a Reappraisal. *Seizure* Vol. 6: 121-125
- Egger, J., Brett, E., 1981. Effects of sodium valproate in 100 children with special reference

- to weight. *British Medical Journal*. 283:577-581
- El-Khatib, F., Rauchenzauner, M., Lechleitner, M., Hoppichler, F., 2007. Valproate, weight gain and carbohydrate craving: A gender study. *Seizure* 16:226-232
- Fang, J., Chen, S., Tong, N, Chen, T., An, D., Mu, J., Zhou, D. 2012. Metabolic Syndrome among Chinese obese patients with epilepsy on sodium valproate. *Seizure*. 21:578-582
- Fisher, R, Acevedo, C, Arzimanoglou, A, Bogacz, A, Cross, J, Elger, C, et al. 2014. ILAE official report: A practical clinical definition of epilepsy. *Epilepsia*. 55:475-82
- Fisher, R., Shafer, P., D'Souza, C., 2017. 2017 Revised Classification of Seizures. *Epilepsy Foundation*
- Ghodke-Puranik, Y., Thorn, C., Lamba, J., Leeder, S., Song, W., Birnbaun, A., 2013. Valproic Acid Pathway: Pharmacokinetics and Pharmacodynamics. *Pharmacogenetics and Genomics* 23: 236-241
- Gil-campos, M., Canete, R., Gil, R., 2004. Adiponectin, the missing link in insulin resistance and obesity. *Clinical nutrition* 23:963-974
- Guler, S., Gunes, N., Cokal, B., Yoldas, T., Soker, E., 2016. Development of Insulin Resistance in Patients with Epilepsy During Valproate and Carbamazepine Monotherapy. *Epilepsi* 22(3):102-107
- Greco, R., Latini, G., Chiarelli, F., Laretti, P., Verrotti, A., 2005. Leptin, Ghrelin, and Adiponectin in Epileptic Patient Treated with Valproic Acid. *Neurology* 65: 1808-1809
- Harsono, Endang K, Suryani G., 2006. Pedoman tata laksana epilepsi. Edisi Ke-3. Perdossi ;62:1-43.
- Hoffstedt, J., Arvidsson, E., Sjolín, E., Wahlen, K., Arner, P. 2004. Adipose Tissue Adiponectin Production and Adiponectin Serum Concentration in Human Obesity and Insulin Resistance. *Journal of Clinical Endocrinology & Metabolism* 89(3): 1391-1396.

Ikatan Dokter Anak Indonesia (IDAI). 2006. *Konsensus Penatalaksanaan Kejang Demam*.

Jakarta: Unit Kerja Koordinasi Neurologi IDAI

Ikatan Dokter Anak Indonesia (IDAI). 2014. Kurva Pertumbuhan WHO [online]

<http://www.idai.or.id/professional-resources/growth-chart/kurva-pertumbuhan-who>
diakses pada 18 Januari 2019

Isojarvi JI, Laatikainen TJ, Knip M, Pakarinen AJ, Juntunen KT, Myllyla VV. 1996. Obesity and endocrine disorders in women taking valproate for epilepsy. *Annals of Neurology*. 39: 579–584.

Kamel, Ashraf F., Svante Norgren, Karin Strigård, Anders Thörne, Hossein Fakhrai-Rad, Joakim Galli, and Claude Marcus. 2004. Age-Dependent Regulation of Lipogenesis in Human and Rat Adipocytes. *Journal of Clinical Endocrinology and Metabolism* 89(9):4601–6

Kanenumura, H., Sano, F., Maeda, Y., Sugita, K., Aihara, M., 2012. Valproate sodium enhances body weight gain in patients with childhood epilepsy: A pathogenic mechanisms and open-label clinical trial of behavior therapy. *Seizure* 21:495-500

Kementrian Kesehatan Republik Indonesia, 2014. Kondisi Capaian Program Kesehatan Anak Indonesia. *INFODATIN*

Korner, A., Kratzsch, J., Gausche, R., Schaab, M., Erbs, S., 2007. New Predictors of the Metabolic Syndrome in Childrens – Role of Adipocytokines. *Pediatric research* 61(6)

Lowenstein, D.H. 2017. Seizures and Epilepsy. In: Hauser, S.L., et al. *Harrison's Neurology in Clinical Medicine*, 4th edition. New York: McGraw-Hill Education, pp. 297-322

Luef, G., Lechleitner, M., Bauer, G., Trinkla, E, Hengster, P., 2003. Valproic acid modulates islet cell insulin secretion: a possible mechanism of weight gain in epilepsy patients. *Epilepsy research*. 55:53-58

- Martin, G, Han, H, Anton, S, Greenway, F, Smith, S. 2009. Effect of valproic acid on bodyweight, food intake, physical activity and hormones: results of a randomized controlled trial. *J Psychopharmacol* 23(7):814-25
- Meral C, Cekmez F, Vurucu S, Tascilar E, Pirgon O, Canpolat FE, Ipcioglu OM, Aydemir G, Aydinoz S. 2011. New adipocytokines (vaspin, apelin, visfatin, adiponectin) levels in children treated with valproic acid. *Eur Cytokine Netw* 22(2):118-22
- Moshe, S., Perucca, E., Ryvlin, P, Tomson, P., 2014. Epilepsy: New Advances. *The Lancet*.
- Ng Tang Fui, Mark, Luke A. Prendergast, Philippe Dupuis, Manjri Raval, Boyd J. Strauss, Jeffrey D. Zajac, and Mathis Grossmann. 2016. Effects of Testosterone Treatment on Body Fat and Lean Mass in Obese Men on a Hypocaloric Diet: A Randomised Controlled Trial. *BMC Medicine* 14(1):1–11.
- Nigro, E., Scudiero, O., Monaco, M., Palmieri, A., Mazzarella, G., Costagliola, C., 2014. New Insight into Adiponectin Role in Obesity and Obesity Related Disease. *Hindawi*.
- Novak, G., Maytal, J., Alshansky, A., Eviatar, L., 1997. Risk of Excessive Weight Gain in Epileptic Children Treated with Valproate. *Journal of Child Neurology* 14: 490-495
- Perdossi, 2014. *Pedoman Tatalaksana Epilepsi*. Surabaya: Airlangga University Press
- Pooya-Asadi, A., Sperling, M., 2016. Antiepileptic Drug: A Clinician's Manual, 2nd Edition. Oxford : Oxford University Press
- Porter, R.J., et al. 2015. Antiseizure Drugs. In: Katzung, Bertram G., et al. Basic & Clinical Pharmacology, 13th edition. New York: McGraw-Hill Education, pp. 396-420
- Pylvanen, V., Knip, M., Pakarinen, A., Kotila, M., Turkka, J., Isojarvi, J. 2002. Serum Insulin and Leptin Levels in Valproate-associated Obesity. *Epilepsia* 43: 514-517
- Qiao, L., Schaak, J., Shao, J., 2006. Suppression of Adiponectin Gene Expression by Histone Deacetylase Inhibitor Valproic Acid. *Endocrinology* 147(2):865-874

- Rakitin, A., Koks, S., Haldre, S., 2016. Metabolic syndrome and anticonvulsants: a comparative study of valproic acid and carbamazepine. *Seizure*
- Rauchenzauner, M., Haberlandt, E., Scholl-Burgi, S., Ernst, B., 2008. Adiponectin and Visfatin Concentrations in Children Treated with Valproic Acid. *Epilepsia* 49(2):352-357
- Rauchenzauner M, Laimer M, Wiedmann M, et al. 2013. The novel insulin resistance parameters rBP4 and GLP-1 in patients treated with valproic acid: just a sidestep? *Epilepsy Res.* 104(3): 285–288
- Reinehr, T., Roth, C., Menke, T., Andler, W., 2004. Adiponectin before and after Weight Loss in Obese Children. *Journal of Clinical Endocrinology & Metabolism* 88(8): 3790-3794.
- Robinson, K., Prins, J., Venkatesh, B., 2011. Clinical review: Adiponectin biology and its role in inflammation and critical illness. *Critical care* 15:221
- Rosati, A., Masi, E., Guerrini, R., 2015. Antiepileptic drug treatment in Children with Epilepsy. *CNS Drugs* 29 : 847-863
- Ruan, H., Dong, L., 2016. Adiponectin Signaling and Function in Insulin Target Tissues. *Journal of Molecular Cell Biology* 8(2):101-109.
- Schatz, S.N., et al. 2015. Adverse Drug Reactions. PSAP 2015, CNS/Pharmacy Practice, pp. 5-26.
- Shehzad, A., Iqbal, W., Shehzad, O., Lee, Y., 2012. Adiponectin: Regulation of its production and its role in human diseases. *Hormones* 11(1):8-120
- Sidhu, Harpreet Singh, R. Srinivas, and Akshay Sadhotra. 2017. "Evaluate the Effects of Long-Term Valproic Acid Treatment on Metabolic Profiles in Newly Diagnosed or Untreated Female Epileptic Patients: A Prospective Study." *Seizure* 48:15–21.
- Smith, M., Metcalf, C., Wilcox, K. 2018. Pharmacotherapy of the Epilepsies. In: Brunton, Laurence., et al. Goodman & Gilman's The Pharmacological Basis of Therapeutics, 12th

- edition. New York: McGraw-Hill Education
- Soetjiningsih, 1995. *Tumbuh Kembang Anak*. Jakarta: Penerbit Buku Kedokteran ECG
- Sonmez, F., Zaman, D., Aksoy, A., Deger, O., Aliyazicioglu, R., Karaguzel, G., Fazligou, K., 2013. The effects of topiramate and valproate therapy on insulin, c-peptide, leptin, neuropeptide Y, adiponectin, visfatin, and resistin levels in children with epilepsy. *Seizure* 22: 856-861
- Sopiyudin, M., 2010. *Besar Sampel dan Cara Pengambilan Sampel*. Edisi 3. Jakarta: Salemba Medika
- Stefan, N., Bunt, J, Salbe, A., Funahashi, T., Matsuzawa, Y., Tataranni, P., 2002. Plasma Adiponectin Concentrations in Children: Relationships with Obesity and Insulinemia. *J Clin Endocrinol Metab* 87:4652–4656.
- Stern, J., Rutkowski, J., Scherer, P., 2016. Adiponectin, Leptin, and Fatty Acids in the Maintenance of Metabolic Homeostasis through Adipose Tissue Crosstalk. *Cell Metabolism* 23:770-779
- Steven, M., Patricia, E., 2006. Recognition and management of pediatric seizures. *Pediatric Annals* 35 (5)
- Swarbrick, M., Havel, P. 2008. Physiological, Pharmacological, and Nutritional Regulation of Circulating Adiponectin Concentrations in Humans. *Metabolic Syndrome and Related Disorders* 6(2): 87-94
- Tokgoz, Huseyin, Kursad Aydin, Bulent Oran, and Aysel Kiyici. 2012. Plasma Leptin, Neuropeptide Y, Ghrelin, and Adiponectin Levels and Carotid Artery Intima Media Thickness in Epileptic Children Treated with Valproate. *Child's Nervous System*.
- Undang-Undang Republik Indonesia Nomor 23 Tahun 2002 tentang Perlindungan Anak, 2002. Jakarta

- Vendrell, J., Broch, M., Virassa, N., Molina, A., Gamez, J., 2004. Resistin, Adiponectin, Ghrelin, Leptin and Proinflammatory Cytokines: Relationship in Obesity. *Obesity Research* 12:6 962-970
- Verrotti, A., Basciani, F., Simone, M., Trotta, D., Morgese, G., Chiarelli, F., 2002. Insulin resistance in epileptic girls who gain weight after therapy with valproic acid. *Journal of Child Neurology* 17(4) : 265-268
- Verrotti, A., Torre, R., Trotta, D., Mohn, A., Chiarelli, F., 2009. Valproate induced insulin resistance and obesity in Children. *Hormon Research* 71: 125-131
- Verotti, A., Manco, R., Agostinelli, S., Copolla, S., Chiarelli, F., 2010. The metabolic syndrome in overweight epileptic patients treated with valproic acid. *Epilepsia* 51(2): 268-273
- Verotti, A., Egidio, D, Mohn, A., Coppola, G., Chiarelli, F., 2010. Weight gain following treatment with valproic acid: pathogenetic mechanisms and clinical implications. *Obesity Reviews* 12:32-43
- WHO, 2018. *Epilepsy*. [Online] Available at: <http://www.who.int/news-room/factsheets/detail/epilepsy> diakses pada 18 Januari 2019
- Yadav, A., Kataria, M., Saini, V., Yadav, A., 2013. Role of Leptin and Adiponectin in Insulin Resistance. *Clinica Chimica Acta* 417:80-84
- Yang, Wei-Shiung, Lee, Wei-Jei, Funahashi, T., Tanaka, S., Matsuzawa, Y., Chao, C. 2002. Plasma Adiponectin Levels in Overweight and Obese Asians. *Obesity Research* 10:1104-1110.