

DAFTAR PUSTAKA

- Akbarzadeh, A., dkk. 2007. Induction of Diabetes By Streptozotocin in Rats. *Indian Journal of Clinical Biochemistry*. Vol 22 (2) : 60-64.
- Adibhatla, R. M., dan Hatcher J. F. 2006. Phospholipase A₂, Reactive Oxygen Species, and Lipid Peroxidation in Cerebral Ischemia. *Journal of Free Radical Biology and Medicine*. Vol 40 : 376-387.
- Aronson, D. dan Elliot R. 2002. How Hyperglycemia Promotes Atherosclerosis: Molecular Mechanism. *Biomed Central*. New York.
- Bhatti, F., dkk. 2004. Mechanisms of Antioxidant and Pro-oxidant Effects of α -lipoic Acid in the Diabetic and Nondiabetic Kidney. *Journal of Kidney International*. Vol 67:1371-1380.
- Badcock N, Zoanetti G and Martin E. 1997. Nonchromatographic Assay for Malondialdehyde–Thiobarbituric Acid Adduct with HPLC Equivalence. *Clinical Chemistry*. Vol 43 : 1655-1657.
- Baydas, G., Canatan H., dan Turkoglu A. 2002. Comparative Analysis of The Protective Effect of Melatonin and Vitamin E on Streptozotoci-Induce Diabetes Mellitus. *Journal of Pineal Research*. Vol 32 : 225-230.
- Brownlee, M. 2001. Biochemistry and Molecular Cell Biology of Diabetic Complication. *Insight Review Article*. Vol 414 : 813-820.
- Cam, M., dkk. 2003. Protective Effect of Chronic Melatonin Treatment against Renal Injury in Streptozotocin-Induced Diabetic Rats. *Journal of Pineal Research*. Vol 35 : 212-220.
- Chun-jun, L., dkk. 2009. Attenuation of Myocardial Apoptosis by Alpha-Lipoic Acid Through Suppression of Mitochondrial Oxidative Stress to Reduce Diabetic Cardiomyopathy. *Journal of Chinese Medicine*. Vol 122 (2) : 2580-2586.
- Colvin, R. B., dkk. 2011. Diagnostic Pathology Kidney Disease. Canada : AMIRSYS, p. 277-278.
- Dalle-Donne, dkk. 2006. Biomarkers of Oxidative Damage in Human Disease. *Clinical Chemistry*. Volume 52 (4) : 601-623.
- Deshpande, A., Marcie H., dan Mario S. 2008. Epidemiology of Diabetes and Diabetes-Related Complications. *Journal of the American Physical Therapy association*. Vol 88(11):1254-1264.
- Dipiro, Joseph T., dkk. 2008. *Pharmacotherapy A Pathophysiologic Approach*, 7th Ed. New York : The McGraw-Hill Companies, p. 1206.

- Erejuwa, O. 2012. Management of Diabetes Mellitus: Could Simultaneous Targeting Hyperglycemia and Oxidative Stress be a Better Panacea?. *International Journal Molecular Sciences*. Bucharest.
- Esgro, B. 2010. *The Role of Alpha Lipoic Acid in Glucose Homeostasis and Human Health*. ABC Bodybuilding Company.
- Fatmawati, N. A. 2013. *Efek Asam Alfa Lipoat Terhadap Stres Oksidatif Pada Jantung Tikus Wistar Jantan Model Diabetes Mellitus Tipe 1 Induksi Streptozotocin*. Malang.
- Fioretto, P., dan Michael M. 2007. Histopathology of Diabetic Nephropathy. *Journal of Semin Nephrol*. Vol 27 (2) : 195-207.
- Frandsen RD. 1992. *Anatomi dan Fisiologi Ternak*. Ed ke-4. Yogyakarta: Gadjah Mada University Press.
- Giacco, F. dan Michael B. 2012. Oxidative Stress and Diabetic Complications. *Journal of The American Heart Association* : Dallas.
- Golbidi S, Mohammad B, dan Ismail L. 2011. Diabetes and Alpha Lipoic acid. A. Andrade (Ed), *Diabetes and Alpha Lipoic Acid*. *Frontiers in Pharmacology*. Vancouver.
- Goraca, A., Piechota A., dan HUK-Kolega H. 2009. Effect of Alpha-Lipoic Acid on LPS-Induced Stress in The Heart. *Journal of Physiology and Pharmacology*. Vol 60 (1) : 61-68.
- Haleagrahara N, Tan Jackie, Srikumar C, dan Anupama B. 2011. Protective Effect of Alpha-lipoic Acid Against Lead Acetate-Induced Oxidative Stress in The Bone Marrow of of Rats. *International Journal of Pharmacology*. Kuala Lumpur.
- Hansen, S., dan Kjartan. 1983. Renal Hypertrophy in Experimental Diabetes Mellitus. *Journal of Kidney International*. Vol 23 (4) : 643-646.
- Hegab, Z., dkk. 2012. Role of Advanced Glycation End Products in Cardiovascular Disease. *World Journal of Cardiology*. Manchester.
- Hung, T. H., dan Bruton G. J. 2006. Hypoxia and Reoxygenation : A Possible Mechanism for Placental Oxidative Stress in Preeclampsia. *Taiwanese Journal of Obstetrics and Gynecology*. Volume 43 (3) : 189-200.
- Hunjoo, dan Hi Bahl Lee. 2003. Reactive Oxygen Species and Matrix Remodeling in Diabetic Kidney. *J Am Soc Nephrol*. Vol 14 : S246-S249.
- Hur, J., dkk. 2010. Literature-based Discovery of Diabetes- and ROS-Related Targets. *Research Article BMC Medical Genomic*. Vol 3 : 49.
- Juhryyah, Sri. 2008. *Gambaran Histopatologi Organ Hati dan Ginjal Tikus pada Intoksikasi Akut Insektisida (Metofluthrin, d-phenothrin, d-allothrin) Dengan Dosis Bertingkat*. Bogor : Institut Pertanian Bogor.

- Kang, James. 2001. *Molecular and Cellular Mechanisms of Cardiotoxicity*. Environmental Health Perspectives.
- Kangralkar, VA, Shivraj DP, dan Bandivadekar RM. 2010. Oxidative Stress and Diabetes: A Review. *International Journal of Pharmaceutical Applications*. Vol 1 : 38-45.
- Kara, H., Karatas F., dan Canatan H. 2005. Effect of Single Dose Cadmium Chloride Administration on Oxidative Stress in Male and Female Rats. *Research Article*. Vol 29 : 37-42.
- Kathryn, C. B., dkk. 2002. Advance Glycation End Products and Endothelial Dysfunction in Type 2 Diabetes. *Original Article of Phatophysiology / Complications*. Vol 25 (6) : 1055-1059.
- King, D. 2013. Histology Study Guide Kidney and Urinary Tract. <http://www.siumed.edu/~dking2/crr/rnguide.htm>. Diakses tanggal 02 April 2014.
- Koh, E. H., dkk. 2011. Effects of Alpha-Lipoic Acid on Body Weight in Obese Subject. *The American Journal of Medicine*. Vol 124 : 85.e1-85.e8.
- Marie, A., dkk. 2008. *Pharmacotherapy Principle and Practice*. USA : McGraw-Hill Medical, p. 643.
- Maritim, A. C., Sanders R. A., dan Watkins J. B. 2002. Diabetes, Oxidative Stress, and Antioxidants : A Review. *Journal of Bhiochemistry Molecular Toxicology*. Vol 17 : 24-38.
- Mates, J. M., Cristina P., dan Ignacio N. 1999. Antioxidant Enzymes and Human Disease. *Journal of Clinical Biochemistry*. Vol 32 (8) : 595-608.
- Melhem, M. F., dkk. 2002. α -Lipoic Acid Attenuateds Hyperglycemia and Prevent Glomerular Mesangial Matrix Expansion in Diabetes. *Journal of Thr American Society of Nephrology*. Vol 13 : 108-116.
- Midaoui, A. E., dan Champlain J. 2002. Prevention of Hypertension, Insulin Resistance, and Oxidative Stress by α -Lipoic Acid. *Journal of The American Heart Association*. Vol 39 : 303-307.
- Mohora, M., dkk. 2007. The Sources and the Targets of Oxidation Stress in the Etiology of Diabetic Complication. *Journal of Romania Biophy*. Vol 17 : 63-84.
- Motil, K., dan McCabe L. R. 2009. Streptozotocin, Type 1 Diabetes Severity and Bone. *Biological Procedures Online*. Vol 11 (1) : 296-315.
- Moussa, S.A. 2008. Oxidative Stress in Diabetes Mellitus. *Romanian J Biophys*. Vol 18 (3) : 225-236.

- Niedernhofer, L. J., dkk. 2003. Malondialdehyde, a Product of Lipid Peroxidation, Is Mutagenic in Human Cell. *Journal Biology Chemistry*. Vol 278 : 31426-31433.
- Nugroho, A. E., 2006. Hewan Percobaan Diabetes Mellitus : Patologi dan Mekanisme Aksi Diabetogenik. *Jurnal Biodiversitas*. Vol 7 (4) : 378-382.
- Obrosova, I. G., dkk. 2003. Early Oxidative Stress in the Diabetic Kidney: Effect of DL- α -Lipoic Acid. *J. Free Radical Biology and Medicine*. Vol 34 (2) : 186-195.
- Packer L, Klaus K, dan Gerald R. 2001. *Molecular Aspect of Lipoic Acid in the Prevention Diabetes Complication*. Elsevier Science Inc. United State.
- Palsamy, P., dan Subramanian, S. 2011. Resveratrol Protects Diabetic Kidney by Attenuating Hyperglycemia Mediated-Oxidative Stress and Renal Inflammatory Cytokines Via Nrf2-Keap1 Signaling. *BBA – Molecular Basis of Disease Article*. p. 1-50.
- Perlitasari, Yessi. 2010. *Pengaruh Pemberian Ekstrak Herba Anting-anting (Acalypha indica linn.) Terhadap Kadar Malondialdehyde pada Mencit Balb/C Induksi Streptozotocin*. Surakarta : Universitas Sebelas Maret.
- Prabhakar, S., dkk. 2007. Diabetic Nephropathy Is Associated with Oxidative Stress and Decreased Renal Nitric Oxide Production. *J Am Soc Nephrol*. Vol 18 : 2945-2952.
- Rahmatini. 2010. *Efek Pemberian Vitamin C Terhadap Penurunan Kadar Malondialdehid (MDA) Serum Pada Lansia*. Project Report. Ip Unand. (Unpublished).
- Rindiastuti, Y. 2008. *Nefropati Diabetik*. Surakarta : UNS.
- Robertson, R. 2004. Chronic Oxidative Stress as a Central Mechanism for Glucose Toxicity in Pancreatic Islet Beta Cells in Diabetes. *The Journal of Biological Chemistry*. Vol 279 (41) : 42351-42354.
- Rolo, A., dan Carlos M. 2006. Diabetes and Mitochondrial Function : Role of Hyperglycemia and Oxidative Stress. *Journal of Toxicology and Applied Pharmacology*. Vol 212:167-178.
- Routledge, M., dkk. 1993. Mutations Induced by Saturated Aqueous Nitric Oxide in the pSP189 supF Gene in Human Ad293 and E. coli MBM7070 cells. *Carcinogenesis*.
- Sacher, R. A., dan Richard A. 2004. *Tinjauan Klinis Hasil Pemeriksaan Laboratorium*. Jakarta : EGC.
- Satirapoj, Bancha. 2010. Review on Pathophysiology and Treatment of Diabetic Kidney Disease. *Journal Med Assoc Thai*. Vol 93 (6) : S228-S241.

- Sihombing, M., dan Tuminah S. 2011. Perubahan Nilai Hematologi, Biokimia Darah, Bobot Organ dan Bobot Badan Tikus Putih pada Umur Berbeda. *Jurnal Veteriner*. Vol 12 (1) : 58-64.
- Singh, U., dan Ishwarlal J. 2008. *Alpha-lipoic Acid Supplementation and Diabetes*. Vol 66 (11) : 646-657.
- Shotton, H. R., Clarke S., dan Lincoln J. 2003. The Effectiveness of Treatments of Diabetic Autonomic Neuropathy Is Not the Same in Autonomic Nerves Supplying Different Organs. *Journal of Diabetes*. Vol 52 :157-164.
- Slatter, D. A, C. H. Bolton, dan A. J. Bailey. 2000. The Importance of Lipid-derived in Diabetes Mellitus. *Journal of Diabetologia*. Vol 43 : 550-557.
- Soriano, S. J., dkk. 2008. Early Lipoic Acid Intake Protects Retina of Diabetic Mice. *Free Radical Research*. Vol 42 (7) : 613-617.
- Stehouwer, C. D. 2004. Endothelial Dysfunction in Diabetic Nephropathy: State of the Art and Potential Significance for Non-diabetic Renal Disease. *Journal of Nephrol Dial Transplant*. Vol 19 : 778-781.
- Stevens, M. J., dkk. 2008. Effects of DL- α -Lipoic Acid on Peripheral Nerve Conduction, Blood Flow, Energy Metabolism, and Oxidative Stress in Experimental Diabetic Neuropathy. *Journal of Diabetes*. Vol 49 : 1006-1015.
- Su Yen Goh dan Mark E Cooper. 2008. The Role of Advanced Glycation End Products in Progression and Complications of Diabetes. *J Clin Endocrinol Metab*. USA.
- The Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC) Study Research Group. 2005. *Intensive Diabetes Treatment and Cardiovascular Disease in Patients with Type 1 Diabetes* : Massachusetts Medical Society.
- Tian, H., dkk. 2010. Correlations Between Blood Glucose Level and Diabetes Sign in Streptozotocin-Induced Diabetic Mice. *Global Journal of Pharmacology*. vol 4 (3) : 111-116.
- Wagener, dkk. 2009. The Role of Reactive Oxygen Species in Apoptosis of The Diabetic Kidney. *Journal of Diabetes and Apoptosis*. Vol 14 : 1451-1458.
- Wahyuningsih, Eka. 2009. *Peroksidasi Lipid, Aktivitas SOD, dan Sekresi Asam Sitrat Pada Padi Lokal Indonesia Selama Mendapat Cekaman Aluminium*. Bogor : Institut Pertanian Bogor.
- Wei, M., dkk. 2003. The Streptozotocin-Diabetic Rat as A Model of The Chronic Complications of Human Diabetes. *Journal of Diabetes*. p. 1-20.
- Wiseman, M. J., dkk. 1985. Effect of Blood Glucose Control on Increased Glomerular Filtration Rate and Kidney Size in Insulin-Dependent Diabetes. *N Engl J Med*. Vol 312 : 617-621.

Wollin S dan Peter Jones. 2003. α -Lipoic Acid and Cardiovascular Disease. *Journal of Nutrition*. Que'bec.

Xianwen, Yi, dkk. 2011. α -Lipoic Acid Protects Diabetic Apolipoprotein E-deficient Mice from Nephropathy. *J Diabetes Complications*. Vol 25 (3) : 193-201.

Yustika, A. R. 2013. Kadar Malondialdehid (MDA) dan Gambaran Histologi pada Ginjal Tikus Putih (*Rattus norvegicus*) Pasca Induksi Cylosporine-A. *Kimia Student Journal*. Vol 1 (2) : 222-228.

