

DAFTAR PUSTAKA

- Ahmed, RG. The Physiological and Biochemical Effects of Diabetes on The Balance Between Oxidative Stress and Antioxidant Defense System. *Medical Journal of Islamic World Academy of Sciences*, 2005, 15 (1): 31- 42.
- American Diabetes Association. Diagnosis and Classification of Diabetes Mellitus. *Diabetes Care*, 2011, Vol. 34 (1): 562-569.
- Anderson MM, Requena JR, Crowley JR, Thorpe SR, Heinecke JW. The Myeloperoxidase of Human Phagocytes Generates N-(carboxymethyl) lysine on Proteins: a Mechanism for Producing Advanced Glycation End Products at Sites of Inflammation. *J Clin Invest*, 1999, 104 (1): 103-13.
- Astuti, S.M, Mimi S.A.M, Retno A.B.M, Awalludin R. Determination of Saponin Compound from *Anredera cordifolia* (Ten.) Steenis Plant (Binahong) to Potential Treatment for Several Diseases. *Journal of Agricultural Science* , 2011, Vol.4 (3).
- Bachtiar, W. 2014. *Efek Pemberian Ekstrak Daun Binahong (Anredera cordifolia) Terhadap Kadar Serum Insulin Pada Tikus Putih (Rattus norvegicus) Starin Wistar Model Diabetes Tipe 2*. Tugas Akhir. Tidak Diterbitkan, Fakultas Kedokteran Universitas Brawijaya, Malang.
- Belitz H.D. and Grosch, W. 2009. *Food Chemistry*. Heidelberg: Springer-Verlag Berlin. p. 55.
- B POM. 2008. *Anredera cordifolia (Ten.) Steenis*. B POM RI: Direktorat Obat Asli Indonesia. hal. 10.
- Brownlee M. 2004. The Pathobiology of Diabetic Complications A Unifying Mechanism. *American Diabetes Association*, p. 54.
- Depkes RI. 1995. *Farmakope Indonesia Edisi 4*. Jakarta: Depkes RI.
- Devasagayam T, K Bloor, & T Ramasarma. Methods for Estimating Lipid Peroxidation: An Analysis of Merit and Demerits. *Indian Journal Biochemistry and Biophysics*, 2003, 40: 300-308.
- Djokomuljanto R. 1999. Insulin Resistance and Other Factors in the Patogenesis of Diabetic Nephropathy. Simposium Nefropati Diabetik. Kongres Pernefri. hal. 60-61

- Droge W. Free radicals in the physiological control of cell function. *J Physiol Rev* 2002, 82:47-95.
- Erejuwa O. Management of Diabetes Mellitus: Could Simultaneous Targeting Hyperglycemia and Oxidative Stress be a Better Panacea? *International Journal Molecular Sciences*, 2012, 13: 2965-2972.
- Fatmawati, N.A. 2014. Efek Asam Alfa Lipoat terhadap Stres Oksidatif pada Jantung Tikus Wistar Jantan Model Diabetes Mellitus Tipe 1 Induksi Streptozotocin. Skripsi. Malang: Universitas Brawijaya
- Federer, W. 1991. *Statistics and Society: Data Collection and Interpretation*. 2nd ed. New York: Marcel Dekker.
- Gadja, A.M. 2008. High Fat Diets for Diet-Induced Obesity Models. *Research Diets*.
- Haffner SM. The Importance of Hyperglycemia in The Non Fasting State to The Development Cardiovascular State. *Endocrine Review*, 1999, 19 (5): 583-92
- Halliwel B, Gutteridge JMC. *Free radical in biology and medicine*. 3rd ed. New York: Oxford University Press; p.639-45.
- Hariyadi, P. Freeze Drying Technology: for Better Quality&Flavor of Dried Product. *Foodreview Indonesia*. 2013. Vol. 8(2): 52-57.
- Indrawati, S. 2014. *Efek Pemberian Ekstrak Daun Binahong (Anredera cordifolia) Terhadap Kadar Glikogen Otot Pada Tikus Putih (Rattus norvegicus) Starin Wistar Model Diabetes Tipe 2*. Tugas Akhir. Tidak Diterbitkan, Fakultas Kedokteran Universitas Brawijaya, Malang.
- International Diabetes Federation. 2012. *Global Guideline for Type 2 Diabetes*. Sydney: International Diabetes Federation.
- Johansen J.S, Harris AK, Rychly DJ, dan Ergul A. Oxidative stress and the Use of Antioxidants in Diabetes: Linking Basic Science to Clinical Practice. *Cardiovascular Diabetology*, 2005, 4:5 doi:10.1186/1475-2840-4-5.
- Kalaivanam KN, Dharmalingram M, Marcus SR. Lipid Peroxidation in Type 2 Diabetes Mellitus. *Int J Diab Dev*, 2006, Vol 26 (1).
- Kangralkar, VA, Patil SD, and Bandivadekar RM. Oxidative Stress and Diabetes: A Review. *International Journal of Pharmaceutical Applications*. *International Journal of Pharmaceutical Applications*, 2010, 1 (1): pp 38-45.

- Kristina, Natalini N, Edy D. K, Putri K. Lailani. Analisis Fitokimia dan Penampilan Polapita Protein Tanaman Pegagan (*Centella asiatica*) Hasil Konservasi In Vitro. *Buletin Litro*, 2009, Vol 20 (1): 11-20.
- Laurence, D. R and A. L. Bacharach. 1964. Evaluation of Drugs Activities Pharmacometrics. London.
- Lian, Ji-hong, You-qing Xiang, Lei Guo, Wei-rong Hu, Wei Ji, Bang-qiang Gong. The use of High-Fat/Carbohydrate Diet-Fed and Streptozotocin-Treated Mice as a Suitable Animal Model of Type 2 Diabetes Mellitus. *Scandinavian Journal of Laboratory Animal Science*, 2007, Vol. 34 (1): 21-29.
- Mahboob M, Rahman MF, dan Grover. Serum Lipid Peroxidation and Antioxidant Enzyme Levels in Male and Female Diabetic Patients. *Singapore Med J*, 2005, 46 (7): 322.
- Manoi Feri and Balitro. Binahong (*Anredera cordifolia*) Sebagai Obat. *Warta Penelitian dan Pengembangan Tanaman Industri*, 2009, Vol 15 : 3-5.
- Manaf, A. 2008. *DPP-4 Inhibitor : A New Pathway in Diabetes Management*. Padang: Fakultas Kedokteran Universitas Andalas.
- Mohora M, Greabu M, Muscurel C, Duta C, dan Totan A. The Sources and The Targets of Oxidative Stress in The Etiology of Diabetic Complications. *Romanian J Biophys*, 2007, 17: 63-84.
- Moussa, S.A. Oxidative Stress in Diabetes Mellitus. *Romanian J Biophys*, 2008, 18 (3): 225-236.
- Manchester IARC.1987. *IARC Monographs Volume 71*.
- Nabet B.F. 1996. Zat Gizi Antioksidan Penangkal Senyawa Radikal Pangan dalam Sistem Biologis. Prosiding Seminar Senyawa Radikal dan Sistem Pangan : Reaksi Biomolekuler, Dampak terhadap Kesehatan dan Penangkalannya. Kerjasama Pusat Studi Pangan dan Gizi dengan Kedutaan Besar Perancis di Jakarta.
- Niedowicz D.M. and David L. Daleke. The Role of Oxidative Stress in Diabetic Complications. *Cell Biochemistry and Biophysics*, 2005, Vol 43: 289-330.
- Nugroho, A.E. Percobaan Diabetes Mellitus: Patologi dan Mekanisme Aksi Diabetogenik. *Biodiversitas*. 2006. Vol.7(4):378-382.

- Oldfield MD, Bach LA, Forbes JM. Advanced glycation end products cause epithelial-myofibroblast transdifferentiation via the receptor for advanced glycation end products (RAGE). *J Clin Invest* 2001, 108: 1853-63.
- Papas , A.M. 1999. *Antioxidant Status, Diet, Nutrition and Health*. CRC Press. Washington, D.C. p. 104.
- Pederson, O. 2006. *Pharmaceutical Chemical Analysis*. USA: Taylor and Francis Group, LLC.
- PERKENI. 2011. *Konsensus Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia*. Jakarta. hal. 1-28.
- Pranata, F.J. 2010. *Pengaruh Pemberian Ekstrak Daun Pare terhadap Kadar Insulin pada Tikus Putih Strain Wistar Model Diabetes Melitus Tipe 2 dengan Hiperinsulinemia*. Tugas Akhir. Tidak Diterbitkan, Fakultas Kedokteran Universitas Brawijaya, Malang.
- Prasanna, G.S and A. Purnima. Protective Effect of Leaf Extract of *Trichilia Connaroides* on Hypercholesterolemia Induced Oxidative Stress. *Int J. Pharmacol*, 2011, 7: 106-112.
- Rahbani-Nobar ME, Rahimi-Pour A, Rahbani-Nobar M, Adi-Beig F, Mirhashemi SM. Total Antioxidant Capacity, Superoxide Dismutase and Glutathione Peroxidase in Diabetic Patients. *Medical Journal of Islamic Academy of Sciences*, 1999, 12 (4): 109-14.
- Rajalakshmi D Narisimhan S. 1996. *Food Antioxidants: Source of Method and Evaluation*. New York: Marcel Dekker Inc.
- Rahmawati, L., Fachriyah E., Dewi K. 2012. *Isolasi, Identifikasi, dan Uji Aktivitas Antioksidan Senyawa Flavonoid Daun Binahong*. Semarang: Universitas Diponegoro.
- Ramachandran, A., Ronald C. Wan Ma, Chamukuttan S. Diabetes in Asia. *Lancet* , 2010, Vol.375 p:408-418.
- Ramakrishna V dan Jaikhani R. Evaluation of Oxidative Stress in Insulin Dependent Diabetes Mellitus (IDDM) Patients. *Diagnostic Pathology*, 2007, 2 (22): 10.1186/1746-1596-2-22.
- Rees, D,A and Alcolado, J.C., 2005, Animal models of diabetes mellitus, *Diabetic Medicine*, 22 : 359-370.
- Sharma V. & Sharma PL. Role of Different Molecular Pathways in the Development of Diabetes - Induced Nephropathy. *J Diabetes Metab*, 2013, S9: 004.

- Shridar, M.G, R Vinayagamoorthi, V Arul S, Z. Bobby, N. Selvaraj. Bitter Gourd (*Momordica charantia*) Improves Insulin Sensitivity by Increasing Skeletal Muscle Insulin Stimulated IRS-1 Tyrosine Phosphorylation in High – Fat-Diet Fed Rats. *British Journal of Nutrition*, 2008, Vol. 99: 806-812.
- Siegel, E. G., E. R. Trimble, A. E. Renols, H. R. Berthoud. Importance of Preabsorptive Insulin Release on Oral Glucose Tolerance: Studies in Pancreatic Islet Transplanted Rats. *Gut.*, 1980, Vol. 21: 1002-1009.
- Soesilowati S. Diabetic neuropathy: pathogenesis and treatment. *Acta Medica Indonesiana*, 2003, 35 (1): 27-34.
- Srinivasan, K., Viswanad B., Asrat Lydia, Kaul C. L., Ramarao P. Combination of High-Fat Diet Fed and Low-Dose Streptozotocin Treated Rat: A Model for Type 2 Diabetes and Pharmacological Screening. *Pharmacological Research*, 2005, Vol. 52: 313-320.
- Sugiyono, 2006. *Statistika Untuk Penelitian*, Cetakan Ketujuh. Bandung: CV. Alfabeta.
- Sukandar, E., Qowiyah A., Larasati L. Effect of Methanol Extract *Hearhleaf Medeiravine* (*Anredera cordifolia* (Ten.) Steenis) Leaves on Blood Sugar in Diabetes Mellitus Model Mice. *Jurnal Medika Planta*, 2011, Vol. 1(4): 1-10.
- Sukandar Y.S, Joseph IS, Lefina F.A. Study of Kidney Repair Mechanism of Corn Silk (*Zea Mays* L. Hair)-*Binahong* (*Anredera Cordifolia* (Ten.) Steenis) Leaves Combination in Rat Model of Kidney Failure. *Int. J. Pharmacol*, 2013, 9 (1): 12-23.
- Sumartiningsih, S. The Effect of *Binahong* to Hematoma. *World Academy of Science, Engineering, and Technology*, 2011, Vol. 78: 743-745.
- Szkudelski, T. The Mechanism of Alloxan and Streptozotocin Action in B cells of the Rat Pancreas. *Physiol. Res*, 2001, 50: 536-546.
- Tarar, A.M, and Singh U. Signaling Pathway of NADPH Mediated ROS- RNS in Diabetic Nephropathy. *International Research Journal of Pharmacy*, 2012, 3(7).
- Tiwari, A.K., J.M. Rao. Diabetes mellitus and multiple therapeutic approaches of phytochemicals: Present status and future prospect. *Current Science*, 2002, Vol 83, 1 (30-38).
- Ueno Y, Kizaki M, Nakagiri R, Kamiya T, Sumi H, Osawa T. Dietary glutathione protects rats from diabetic nephropathy and neuropathy. *J Nutr*, 2002, 132:897-900.

Widiyanto. 2002. Efek Pemberian Dekok Meniran (*Phyllanthus niruri* Linn.) Terhadap Kadar Malondialdehyde (MDA) Hepar Tikus (*Rattus norvegicus* strain wistar) yang Diinduksi Karbon Tetraklorida (CCl₄). *Skripsi*. Malang : Universitas Brawijaya (hal 6-7, 11-13)

Winarsi,H. 2007. *Antioksidan Alami dan Radikal Bebas*. Yogyakarta: Penerbit Kanisius. hal. 153.

Wirasuasty, I.M., Andeanne W., Weny W.. Uji Ekstrak Daun Binahong (*Anredera cordifolia* Steen.) Terhadap Kadar Gula Darah Pada Tikus Putih Jantan Galur Wistar (*Rattus norvegicus*) yang Diinduksi Sukrosa. *Jurnal Ilmiah Farmasi-UNSRAT*, 2013, Vol. 2 (01).

Zhang, Ming, Xiao-Yan Lu, Zhi-Gang Xu, Li Chen. The Characterization of High-Fat Diet and Multiple Low-Dose Streptozocin Induced Type-2 Diabetes Rat Model. *Experimental Diabetes Research*, 2008, p. 1-9.

